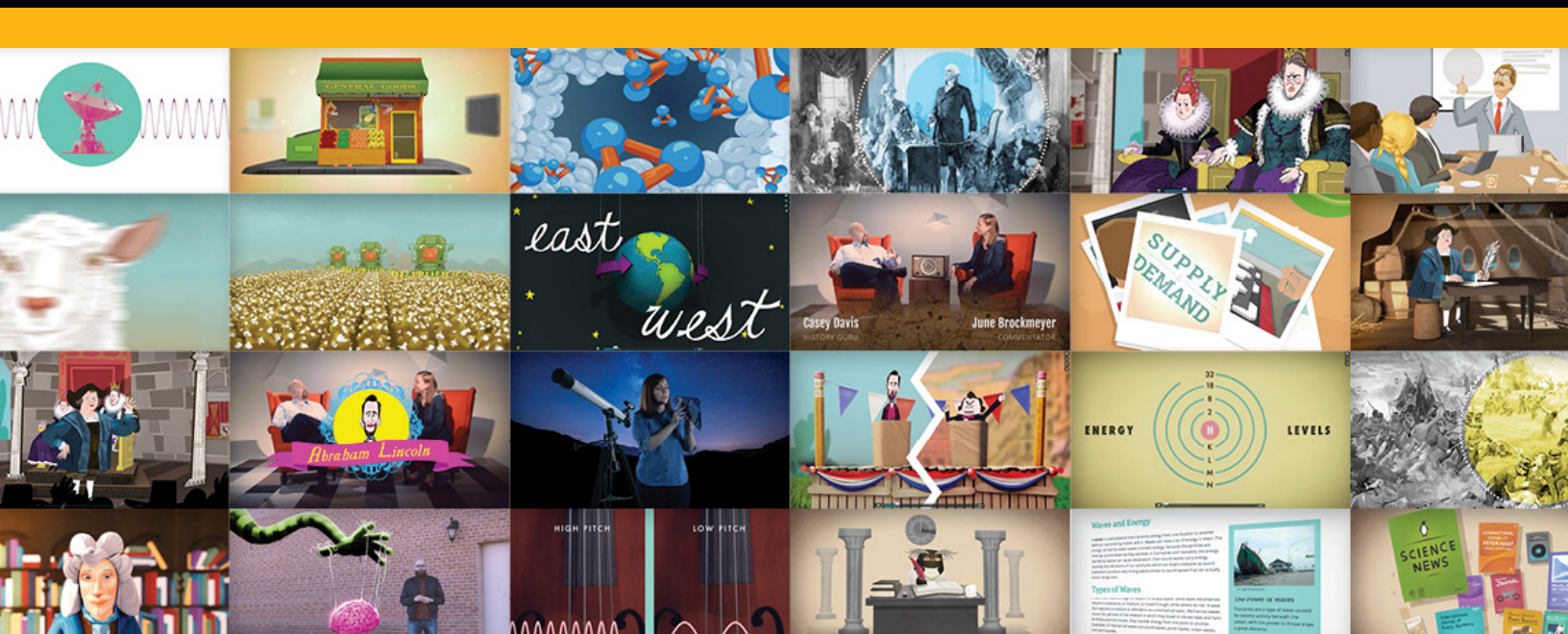


# STRONGMIND<sup>SM</sup>

## 2022-2023 COURSE CATALOG





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StrongMind is committed to the Quality Matters mission of creating and maintaining high quality courses for online learning. You can see our list of approved courses [here](#).

## ENGLISH 9

Grade: 9  
 Prerequisite(s):  
 English 8 or equivalent  
 8th grade English Language Arts  
[Course Intro Video](#)

### First Semester:

English I (2 of 2) explores reading, writing, and analysis using both informational and literary texts. Readings include Anthem by Ayn Rand, among other texts of varying time periods to demonstrate concepts such as textual evidence, themes, central ideas, characters, inferences, rhetorical techniques, structure and style, and arguments and claims. Writing topics include grammar, usage, punctuation, spelling, style manuals, phrases, and clauses, culminating in an informational essay and an argument essay.

Grade: 9  
 Prerequisite(s):  
 English 9 First Semester  
[Course Intro Video](#)

### Second Semester:

English I (1 of 2) explores reading, writing, and analysis using both informational and literary texts, as well as comparison of texts in different mediums. Readings include The Princess and the Goblin by George MacDonald, among others to demonstrate understanding of textual evidence, themes, central ideas, inferences, word choice, and figurative and connotative language, and grammar and usage. Writings include a personal narrative (memoir) and a literary analysis.

## ENGLISH 9 HONORS

Grade: 9  
 Prerequisite(s):  
 English 8 or equivalent  
 8th grade English Language Arts  
[Course Intro Video](#)

### First Semester:

English 9A explores reading, writing, and analysis using both informational and literary texts, as well as comparison of texts in different mediums. Readings include The Princess and the Goblin by George MacDonald, among others to demonstrate understanding of textual evidence, themes, central ideas, inferences, word choice, and figurative and connotative language, and grammar and usage. Writings include a personal narrative (memoir) and a literary analysis.

Honors includes additional examples and practice for students.

Grade: 9  
 Prerequisite(s):  
 English 9 Honors First Semester  
[Course Intro Video](#)

### Second Semester:

English 9B explores reading, writing, and analysis using both informational and literary texts. Readings include Anthem by Ayn Rand, among other texts of varying time periods to demonstrate concepts such as textual evidence, themes, central ideas, characters, inferences, rhetorical techniques, structure and style, and arguments and claims. Writing topics include grammar, usage, punctuation, spelling, style manuals, phrases, and clauses, culminating in an informational essay and an argument essay.

Honors includes additional examples and practice for students.

Honors courses are usually reserved for students who excel in the subject matter.



## ENGLISH 10

Grade: 10

Prerequisite(s):  
English 9 or equivalent  
9th grade English Language Arts

[Course Intro Video](#)

First Semester:

English II (1 of 2) examines reading, writing, and analysis of informational texts, argument texts, and videos to demonstrate understanding of explicit and inferred meaning, textual evidence, central ideas, arguments and claims, organizational structures, figurative and rhetorical language, and the effect of word choice on tone. Skill building focuses on spelling, grammar, usage, punctuation, domain-specific vocabulary, context clues, and affixes. Writing topics include an informational essay and an argument essay.

Grade: 10

Prerequisite(s):  
English 10 First Semester

[Course Intro Video](#)

Second Semester:

English II (2 of 2) explores reading, writing, and analysis of literary texts from around the world and across history. Readings include Antigone by Sophocles, among others to demonstrate understanding of textual evidence, themes, inferences, characterization, figurative language, figures of speech, and literary devices, as well as building about foundational knowledge of context clues, word nuances, affixes, phrases, clauses, and parallel construction. Writing topics include a literary analysis essay and a personal narrative essay.

## ENGLISH 10 HONORS

Grade: 10

Prerequisite(s):  
English 9 Honors or equivalent  
9th grade English Language Arts

Course Intro Video Coming Soon!

First Semester:

English 10A investigates the writing and discourse processes while supplementing them with the reading and grammar strategies necessary to comprehend and compose nonfiction texts. Exploration of language skills in writing topics include researching, organizing, and developing descriptive, persuasive narrative, and expository compositions.

Honors includes additional examples and practice for students.

Grade: 10

Prerequisite(s):  
English 10 Honors First Semester

[Course Intro Video](#)

Second Semester:

English 10B explores literature from multiple eras and cultures. Readings include epic poetry, folktales, ancient verses, Greek tragedy such as Antigone by Sophocles, short stories, and excerpts from novels to examine language, ideas, characters, and literary elements. Exploration of evidence, context clues, symbolism, affixes, and denotative and connotative meanings are provided in short research and writing projects. Writing topics also include a character analysis and a personal narrative.

Honors includes additional examples and practice for students.

Honors courses are usually reserved for students who excel in the subject matter.



## ENGLISH 11

Grade: 11

Prerequisite(s):  
English 10 or equivalent  
10th grade English Language Arts

[Course Intro Video](#)

First Semester:

English III (1 of 2) examines reading, writing, and analysis using both informational and argument texts. Readings include seminal US texts such as “What to the Slave Is the Fourth of July?” by Frederick Douglass, speeches, court documents, and scientific articles to explore textual evidence, central ideas, inferences, word choice, figurative language, spelling, hyphens, contested usage, figures of speech, and reference materials. Writing topics include a researched informational essay and a researched argument essay.

Grade: 11

Prerequisite(s):  
English 11 First Semester

[Course Intro Video](#)

Second Semester:

English III (2 of 2) explores reading, writing, and analysis using both informational and literary texts. Readings include poetry and drama, such The Crucible by Arthur Miller to demonstrate literary elements of plot, setting, character, themes, and central ideas. Comparing works from different time periods, reviewing context and word nuances, and learning about punctuation, style manuals, phrases, clauses, and parallel structure to improve reading and writing skills. Writing topics include a fictional narrative and a literary analysis.

## ENGLISH 11 HONORS

Grade: 11

Prerequisite(s):  
English 10 Honors or equivalent  
10th grade English Language Arts

[Course Intro Video - Coming Soon](#)

First Semester:

English 11A examine seminal US documents ranging from Thomas Paine’s Common Sense through contemporary speeches by the President, among other texts to demonstrate knowledge of the use of rhetorical devices, inference, symbolism, bias, and the drawing of conclusions. The course focuses on argument and persuasion through formal speaking and writing.

Honors includes additional examples and practice for students.

Grade: 11

Prerequisite(s):  
English 11 Honors First Semester

[Course Intro Video - Coming Soon](#)

Second Semester:

English 11B explores American writers and the historical events that influenced their works. Reading selections include The Red Badge of Courage by Stephen Crane, works the following eras and influences: Transcendentalism, Romanticism, American Gothic, American Civil War, Regionalism, Realism, Naturalism, Imagist, Harlem Renaissance, and Modernism. The course emphasizes critical and analytical thinking as well as reading and writing skills.

Honors includes additional examples and practice for students.

Honors courses are usually reserved for students who excel in the subject matter.



## ENGLISH 12

Grade: 12

Prerequisite(s):  
English 11 or equivalent  
11th grade English Language Arts

[Course Intro Video](#)

First Semester:

English IV (1 of 2) explores analysis of informational and argument texts. Readings include seminal US texts such as the Declaration of Independence, presidential speeches, court documents, and articles related to innovative technology to demonstrate rhetoric, figurative language, theme, purpose, specialized vocabulary, text structure, word nuances, inferences, research, evidence, and reference sources. In addition, students learn about context clues, contested usage, and syntax errors. Writings include a researched informational essay and a researched argument essay.

Grade: 12

Prerequisite(s):  
English 12 First Semester

[Course Intro Video](#)

Second Semester:

English IV (2 of 2) analyzes narrative texts from British literature—from the Middle Ages through modern times. Demonstrated skills include explicit and implicit meanings, figurative language, literary devices, central ideas, themes, and narrative and structural elements. Writings include a fictional narrative in the style of Gothic Romanticism and a literary analysis comparing and contrasting two British literature texts of different eras.

## ENGLISH 12 HONORS

Grade: 12

Prerequisite(s):  
English 11 Honors or equivalent  
11th grade English Language Arts

[Course Intro Video](#)

First Semester:

English 12A explores rhetoric using informational texts, including seminal US documents that shaped legal and social policy to examine reasoning including the chain of legal reasoning.

Honors includes additional examples and practice for students.

Grade: 12

Prerequisite(s):  
English 12 Honors First Semester

[Course Intro Video](#)

Second Semester:

"English 12B synthesize knowledge and uses critical thinking to analyze narrative texts from British literature across different eras—from the Middle Ages through modern times. Students read *Frankenstein* by Mary Shelley along with works by British writers such as Shakespeare and Tolkien. These reading selections demonstrate concepts such as narrative elements and structures, literary devices such as symbolism and sarcasm, and inference. Topic include: vocabulary, context clues, word choice, and affixes. In addition, students write a fictional narrative and a literary analysis.

Honors includes additional examples and practice for students.

Honors courses are usually reserved for students who excel in the subject matter.



## AP<sup>®</sup> ENGLISH LANGUAGE & COMPOSITION

Grades: 9-12  
Prerequisite(s):  
None

### First Semester:

This course helps students prepare to take the Advanced Placement Language and Composition Exam™ administered by the College Board. The first semester focuses on the concepts and skills needed to analyze argumentative texts and to build solid arguments—starting with the choices that experienced authors make when they write to persuade an audience. Students learn and apply best practices for constructing, revising, and refining their own arguments. Writing assignments in Semester A include rhetorical analyses of straightforward written arguments as well as satirical texts and visual approaches to persuasion. Students will be asked to develop several formal argumentative essays and also to practice new skills by writing less formal journal entries throughout the semester. The pace and level of work required by this course is similar to that required in a college-level composition course, so students should be prepared to work independently and to complete all assignments in a way that makes good use of their time.

Grades: 9-12  
Prerequisite(s):  
None

### Second Semester:

The second semester of AP English Language and Composition focuses on writing tasks that require synthesis and documentation. Students will analyze many examples of synthesis essays and apply what they learn as they create their own texts based on multiple sources. They will also take a closer look at the use of visual and multi-modal or multimedia evidence when used as support for an argument, and they'll consider how to incorporate these unique approaches into their own attempts at persuasion. Semester B will ask students to work toward improving and refining the style with which they deliver arguments, including the use of rhetorical devices, varied syntax, and grammatical concepts essential to academic discourse. Writing assignments in Semester B include the analysis and construction of multimedia arguments, studies in style, and research-based projects that require the synthesis of information and ideas. As in Semester A, the pace and level of work required by this course is advanced and substantial, so students should be prepared to work independently and thoroughly on all assignments.



## AP<sup>®</sup> ENGLISH LITERATURE & COMPOSITION

Grades: 9-12  
Prerequisite(s):  
None

### First Semester:

Both semesters of AP English Literature and Composition have been designed to challenge students to read and interpret a wide range of literary works. This course allows students to explore a variety of genres and literary periods and to write clearly about the literature that they encounter. By the end of the second semester, the student will be well prepared for the AP examination and will have acquired analytical skills that will be used throughout life. The first semester of this course focuses on the elements of fiction. The student will spend a considerable amount of time reading and analyzing a variety of short stories and novels. The student will evaluate how the elements of plot analysis, characterization, theme, point of view, symbolism, allegory, irony, and humor work together to create a story or novel that is worthy of literary acclaim. In addition to reading, the student will complete a wide variety of writing pieces in order to develop better writing skills in the following areas: narrative, exploratory, expository, and argumentative.

Grades: 9-12  
Prerequisite(s):  
None

### Second Semester:

Both semesters of AP English Literature and Composition have been designed to challenge students to read and interpret a wide range of literary works. This course allows students to explore a variety of genres and literary periods and to write clearly about the literature that they encounter. By the end of the second semester, the student will be well prepared for the AP examination and will have acquired analytical skills that will be used throughout life. The first semester of this course focuses on the elements of fiction. The student will spend a considerable amount of time reading and analyzing a variety of short stories and novels. The student will evaluate how the elements of plot analysis, characterization, theme, point of view, symbolism, allegory, irony, and humor work together to create a story or novel that is worthy of literary acclaim. In addition to reading, the student will complete a wide variety of writing pieces in order to develop better writing skills in the following areas: narrative, exploratory, expository, and argumentative.



## PRE-ALGEBRA



Grades: 6-9

Prerequisite(s):  
None

[Course Intro Video](#)

Pre-Algebra is a one-semester math course to build an algebraic foundation to prepare students for Algebra I. Topics included: reviewing integers and rational numbers, properties of numbers and working with exponents and roots, mastering the order of operations, variables, how to simplify expressions and solve multi-step equations, lines and linear equations, ordered pairs, the coordinate plane, and graphs.

## ALGEBRA 1

Grades: 9-12

Prerequisite(s):  
Math 8

[Course Intro Video](#)

First Semester:

Algebra 1 (1 of 2) explores the application of properties to simplify expressions with exponents and radicals, relationships between rational and irrational numbers, solving linear equations and inequalities, applying knowledge of linear equations and inequalities to solve and graph systems of linear equations and inequalities, applying operations on polynomials, factoring quadratic expressions, and solving quadratic equations using different methods.

Grades: 9-12

Prerequisite(s):  
Algebra 1 First Semester

[Course Intro Video](#)

Second Semester:

Algebra 1 (2 of 2) explores the analysis of different types of functions presented as equations, graphs, tables, verbal descriptions, identifying key features applied to real-world problems, using key features to compare different types of functions, transformations of functions, statistics, interpreting and analyzing data sets, as well as causation and correlation.

## ALGEBRA 1 HONORS

Grades: 9-12

Prerequisite(s):  
Math 8

[Course Intro Video](#)

First Semester:

Algebra 1A explores algebraic problems and applies the knowledge to real-life situations. Topics included: linear inequalities, forms of linear equations, relate linear equations and functions, solve systems of equations and systems of inequalities, interpret solutions mathematically and contextually, statistics, measures of central tendency, relative frequencies, and scatter plots.

Grades: 9-12

Prerequisite(s):  
Algebra 1 Honors First Semester

[Course Intro Video](#)

Second Semester:

Algebra 1B explores functions by exploring new families of functions, the effect of different transformations, key features of their graphs, and how they compare functions represented in different ways. Additional topics included: polynomials on quadratics, quadratic equations and their graphs, various methods of factoring and solving quadratic equations, exponential growth and decay, and how linear, quadratic, and exponential functions compare to one another.

Honors courses are usually reserved for students who excel in the subject matter.



## GEOMETRY

Grades: 9-12

Prerequisite(s):  
Algebra 1

[Course Intro Video](#)

First Semester:

Geometry (1 of 2) explores writing formal proofs and constructing geometric figures. Topics included: transformations to explain the concepts of congruent and similar figures with a focus on the properties of congruent and similar triangles. Properties are proved with postulates, theorems, and formal proofs, as well as trigonometric ratios and their applications to real-world situations.

Grades: 9-12

Prerequisite(s):  
Geometry First Semester

[Course Intro Video](#)

Second Semester:

Geometry (2 of 2) explores writing formal proofs and constructing geometric figures. Topics included: slopes, midpoints, distance formula with a focus on their applications in coordinate proofs, theorems about circles as well as concepts related to circles, and two- and three-dimensional figures and probability.

## GEOMETRY HONORS

Grades: 9-12

Prerequisite(s):  
Algebra 1 Honors

[Course Intro Video](#)

First Semester:

Geometry A examines congruence, proofs, and constructions to prove statements about lines, angles, triangles, and quadrilaterals; applies the knowledge of transformations to learn a formal definition for similarity to write proofs, introduces trigonometry through its connection to the concept of similarity, derive and use formulas for the areas and volumes of two- and three-dimensional figures, and they investigate cross sections and solids of revolutions.

Grades: 9-12

Prerequisite(s):  
Geometry Honors First Semester

[Course Intro Video](#)

Second Semester:

Geometry B explores the Pythagorean theorem, distance formula, midpoint formula, and slope formula to solve geometric problems and develop coordinate proofs. Topics included: understand and apply theorems about circles to find arc lengths and areas of sectors of circles; apply the distance formula to write equations of circles in the coordinate system; and understand the concepts of permutations and combinations to explore the concept of probability.

Honors courses are usually reserved for students who excel in the subject matter.



## ALGEBRA 2

Grades: 9-12

Prerequisite(s):  
Algebra 1 & Geometry

[Course Intro Video](#)

First Semester:

Algebra 2 (1 of 2) explores solving quadratic equations with complex solutions and performs operations on polynomials, uses polynomial identities to solve problems, analyzes polynomial functions using different representations, and solves polynomial equations graphically, works with rational functions, and performing arithmetic operations on rational functions to graph them.

Grades: 9-12

Prerequisite(s):  
Algebra 2 First Semester

[Course Intro Video](#)

Second Semester:

Algebra 2 (2 of 2) explores radical equations, rewriting expressions involving radicals, and graphing and solve radical equations. Concepts of trigonometry include ratios and using the unit circle to understand them, graph sine, cosine, and tangent functions, and explore key features to prove and apply trigonometric identities.

## ALGEBRA 2 HONORS

Grades: 9-12

Prerequisite(s):  
Algebra 1 Honors, Geometry Honors

[Course Intro Video](#)

First Semester:

Algebra 2A explores polynomial, rational, radical, and trigonometric functions, solving equations, including quadratic equations over the complex numbers, as well as rational and radical equations.

Grades: 9-12

Prerequisite(s):  
Algebra 2 Honors First Semester

[Course Intro Video](#)

Second Semester:

Algebra 2B explores modeling real-life situations with equations and inequalities, solving exponential equations with logarithms, and synthesizing and generalizing a variety of functions families, how to make probability decisions and how to use statistics and sampling processes to understand data sets and answer questions about samples and populations.

Honors courses are usually reserved for students who excel in the subject matter.



## EXTENDED ALGEBRA 2\*

Grades: 9-12  
Prerequisite(s):  
Algebra 1 and Geometry  
[Course Intro Video](#)

### First Semester:

Extended Algebra 2 (1 of 4) explores solving quadratic equations with complex solutions and performing operations on polynomials, using polynomial identities to solve problems, analyzing polynomial functions using different representations, solving polynomial equations graphically, working with rational functions, and performing arithmetic operations on rational functions to graph them.

Grades: 9-12  
Prerequisite(s):  
Extended Algebra 2 First Semester  
[Course Intro Video](#)

### Second Semester:

Extended Algebra 2 (2 of 4) explores radical equations, rewriting expressions involving radicals, and graphing and solving radical equations. Concepts of trigonometry include ratios and using the unit circle to understand them, graph sine, cosine, tangent functions, and exploring their key features to prove and apply trigonometric identities.

Grades: 9-12  
Prerequisite(s):  
Extended Algebra 2 Second Semester  
[Course Intro Video](#)

### Third Semester:

Extended Algebra 2 (3 of 4) explores modeling real-life situations with equations and inequalities, solving exponential equations with logarithms, and synthesizing and generalizing a variety of function families.

Grades: 9-12  
Prerequisite(s):  
Extended Algebra 2 Third Semester  
[Course Intro Video](#)

### Fourth Semester:

Extended Algebra 2 (4 of 4) explores how to make probability decisions, as well as how to use basic statistics and sampling processes to understand data sets and answer questions about samples and populations.

## COLLEGE MATHEMATICS PREPARATION<sup>o</sup>

Grades: 11-12  
Prerequisite(s):  
Algebra 1, Algebra 2, Geometry  
[Course Intro Video](#)

### First Semester:

College Math Preparation (1 of 2) explores mathematics in real-life situations, such as investments and interest, calculating loans, and annuities. Topics included: comparing and contrasting solutions; interpreting results of calculations in context to a problem; calculating perimeter, area, surface area, and volume; converting units of measurement between different systems; and solving problems using exponential growth.

*\*This course may receive college credit through dual enrollment if the school has a partnership with a college.*

Grades: 11-12  
Prerequisite(s):  
College Mathematics Preparation  
First Semester  
[Course Intro Video](#)

### Second Semester:

College Math Preparation (2 of 2) explores how to make probability decisions, as well as how to use basic statistics and sampling processes to understand data sets and answer questions about samples and populations. Topics included: distinguishing between sets, using Venn diagrams to solve applied problems, probability and permutations, statistics, and calculating and interpreting data.

*\*This course may receive college credit through dual enrollment if the school has a partnership with a college.*

\*4-semester course

<sup>o</sup>This course may receive college credit through dual enrollment if the school has a partnership with a college.



## FINANCIAL MATHEMATICS



Grade: 9-12

Prerequisite(s):  
Algebra 1

[Course Intro Video](#)

Financial Mathematics (1 of 1) investigates how to solve real-life problems, analyze current financial issues of taxes, loans, car leases, mortgages, and insurance. Mathematical processes are used to study patterns and analyze data, algebraic formulas, graphs, and amortization modeling.

*Schools may use this course independently or pair with Applied Mathematics to create a Math Models full-year course.*

## APPLIED MATHEMATICS



Grade: 9-12

Prerequisite(s):  
Algebra 1

[Course Intro Video](#)

Applied Mathematics (1 of 1) examines how artists, video game developers, and musicians apply mathematical concepts to create, and how biologists use mathematics to measure the distances between cells and gain new insights about the body by applying concepts from geometry, functions, probability, and statistics.

*Schools may use this course independently or pair with Financial Mathematics to create a Math Models full-year course.*

## PRE-CALCULUS

Grades: 9-12

Prerequisite(s):  
None

First Semester:

In this course, students will understand and apply concepts, graphs and applications of a variety of families of functions, including polynomial, exponential, logarithmic, logistic and trigonometric. An emphasis will be placed on use of appropriate functions to model real world situations and solve problems that arise from those situations. A focus is also on graphing functions by hand and understanding and identifying the parts of a graph. A scientific and/or graphics calculator is recommended for work on assignments, and on examinations.

Grades: 9-12

Prerequisite(s):  
None

Second Semester:

Pre-Calculus Part B covers the major units of Introductory Trigonometry and Graphs, Trigonometric Equations and Identities, Analytical Trigonometry, Sequences and Series, Conic Sections and an Introduction to Calculus. A focus is also on graphing functions by hand and understanding and identifying the parts of a graph.



## AP<sup>®</sup> CALCULUS

Grades: 9-12

Prerequisite(s):  
Pre-Calculus A, Pre-Calculus B

### First Semester:

This AP Calculus course is designed with the intent for students to incorporate the concepts of all previous math courses and expand upon these concepts with the implementation of Limits. Emphasis is placed upon the multi-representational approach to calculus where problems and their solutions are explored and interpreted graphically, numerically, analytically and verbally. Students will also be required to explain their answers in written form and will be asked to compare their written response to the AP grading rubric and explain why they feel they should receive that grade. Students are required to use graphing calculators with the capabilities ascribed by the College Board: ([apcentral.collegeboard.com](http://apcentral.collegeboard.com)). These calculators will be used in a variety of ways including multi-representation of equations (graphs and tables) and also for conducting explorations with various functions and how different values change the look of the function.

Grades: 9-12

Prerequisite(s):  
Pre-Calculus A, Pre-Calculus B

### Second Semester:

This AP Calculus course is designed with the intent for students to incorporate the concepts of all previous math courses and expand upon these concepts with the implementation of Limits. Emphasis is placed upon the multi-representational approach to calculus where problems and their solutions are explored and interpreted graphically, numerically, analytically and verbally. Students will also be required to explain their answers in written form and will be asked to compare their written response to the AP grading rubric and explain why they feel they should receive that grade. Students are required to use graphing calculators with the capabilities ascribed by the College Board: ([apcentral.collegeboard.com](http://apcentral.collegeboard.com)). These calculators will be used in a variety of ways including multi-representation of equations (graphs and tables) and also for conducting explorations with various functions and how different values change the look of the function.

## WORLD GEOGRAPHY

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

World Geography (1 of 2) explores the five themes of geography, analyzes the earth's processes, and how the processes impact both physical and human geography. Both physical and political maps are studied to examine trends and impacts with a focus on the Americas, Central Asia, and Europe.

Grades: 9-12

Prerequisite(s):  
World Geography First Semester

[Course Intro Video](#)

Second Semester:

World Geography (2 of 2) continues the exploration of the five themes of geography with a focus on the Middle East, Africa, and Asia. Cultural beliefs and social and political systems are examined within the context of countries, regions, and global interactions.

## WORLD HISTORY

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

World History (1 of 2) explores key events and historical developments from hunter-gatherer societies to the Industrial Revolution. Beginning with the analysis of prehistoric people from the Paleolithic era to the Agricultural Revolution, the course follows the rise and fall of early empires including the Roman Empire. Topics included: The Crusades, feudalism, the plague, Asian empires and trade routes, effects of the Renaissance and Protestant Reformation, and important revolutions that shaped history.

Grades: 9-12

Prerequisite(s):  
World History First Semester

[Course Intro Video](#)

Second Semester:

World History (2 of 2) traces the developments of the last 250 years by examining the origins of modern Western imperialism and analyzing the cultural, economic, and political impacts on Africa and Asia. Topics include: the influence of the Industrial Revolution, the impact of imperialism and nationalism on World War I, how the Treaty of Versailles contributed to the rise of fascism in Europe and the start of World War II, 20th-century warfare, the Armenian Genocide, and the Holocaust.



## WORLD HISTORY HONORS

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

World History (1 of 2) explores the key events and global historical developments from hunter-gatherer societies to the Industrial Revolution. From the Paleolithic era and the Agricultural Revolution, students follow the rise and fall of early empires including Rome, and Asian empires. Topics included: exploration of the impact of the Renaissance, Protestant Reformation, Age of Exploration, and the American colonies, analysis of important revolutions in history, including the Scientific, American, and Industrial.

*Honors includes additional examples and practice for students.*

Grades: 9-12

Prerequisite(s):  
World History Honors First Semester

[Course Intro Video](#)

Second Semester:

World History (2 of 2) examines revolutions in the world and the establishment of European colonies around the globe by tracing the effects of imperialism and nationalism, eventually resulting World War I and II and the Cold War. Topics included: analyzing modern-day issues including social media, globalization, and technological advances and threats associated with them.

*Honors includes additional examples and practice for students.*

## US HISTORY

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

US History (1 of 2) explores European exploration and the impact Europeans had on the lives of those native to North America. Topics included: the development of the English colonies in North America, causes and effects of the American Revolution, the ratification of the Constitution, causes of the War of 1812, analysis of sectionalism as a common thread, westward expansion, Civil War, and Reconstruction, Indian Wars, immigration, and the Second Industrial Revolution.

Grades: 9-12

Prerequisite(s):  
US History First Semester

[Course Intro Video](#)

Second Semester:

US History (2 of 2) traces pivotal events in American history and presidential administrations as the 21st century dawns. Topic included: The Gilded Age, Progressive Era, World War I, the Roaring Twenties, Great Depression, New Deal, World War II, the Cold War, and proxy conflicts like the Vietnam War and Korean War, technology innovations, global communications, and the rise of terrorism.

Honors courses are usually reserved for students who excel in the subject matter.





## US HISTORY HONORS

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

US History (1 of 2) explores European exploration and the impact Europeans had on the lives of those native to North America. Topics included: the development of the English colonies in North America, causes and effects of the American Revolution, the ratification of the Constitution, the causes of the War of 1812, analysis of sectionalism as a common thread, westward expansion, Civil War, and Reconstruction, Indian Wars, immigration, and the Second Industrial Revolution.

*Honors includes additional examples and practice for students.*

Grades: 9-12

Prerequisite(s):  
US History Honors First Semester

[Course Intro Video](#)

Second Semester:

US History (2 of 2) traces pivotal events in American history and presidential administrations as the 21st century dawns. Topic included: The Gilded Age, Progressive Era, World War I, the Roaring Twenties, Great Depression, New Deal, World War II, the Cold War, and proxy conflicts like the Vietnam War and Korean War, technology innovations, global communications, and the rise of terrorism.

*Honors includes additional examples and practice for students.*

## US GOVERNMENT



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

US Government (1 of 1) examines the history and philosophy of the United States government and the guiding principles of democracy. Topics included: analysis of the United States Constitution, functions and duties of the three branches of government, the role of the Supreme Court, civic engagement in political process, the rights and responsibilities of citizens, government systems of the world, political parties, interest groups, and the media in shaping the government.

## US GOVERNMENT HONORS



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Civics: Government examines early political ideas that led to the development of the United States government, and the various smaller governments that operate within the United States provides insights of local, state, and national levels of government. By examining how the United States interacts with the world regarding trade, immigration, and global conflicts, students discover how civic engagement influences the government.

Honors courses are usually reserved for students who excel in the subject matter.



## CIVICS: CITIZENSHIP



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Civics: Citizenship prepares for the Naturalization Test designed by the United States federal government. The course is for high school students in order to fulfill the requirement for graduation.



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Second Semester:

Civics (2 of 2) explores the economic structures for individuals, businesses, and government; the examination of how institutions influence the market economy; and how government interacts and influences the private sector. Topics included: personal finance, preparing a personal budget, national budget, analysis of interest rates, investing, debt, influence of natural resources on economies, trade, market systems, taxes, labor, and regulatory agencies.

## ECONOMICS



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Economics (1 of 1) explores principles to make informed decisions about personal finance, develop a broader understanding of national and international economic decisions and policies. Topics included: why economics impacts history, distribution of wealth, and quality of life for all members of society.



## AP<sup>®</sup> GOVERNMENT AND POLITICS

Grades: 9-12

Prerequisite(s):  
None

### First Semester:

This course examines the U.S. political system. Students in this course will discuss political ideology, the development of the political system and democratic institutions. Students should, according to the College Board, gain an “analytical perspective on government and politics in the United States.” Furthermore, students will study “both the general concepts used to interpret U.S. politics and the analysis of specific examples” throughout history. The class discussion will require that students acquire a “familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics.” The main emphasis of the course, however, is to be able to apply a basic comprehension of the U.S. political system to contemporary events.

Grades: 9-12

Prerequisite(s):  
None

### Second Semester:

This course examines the U.S. political system. Students in this course will discuss political ideology, the development of the political system and democratic institutions. Students should, according to the College Board, gain an “analytical perspective on government and politics in the United States.” Furthermore, students will study “both the general concepts used to interpret U.S. politics and the analysis of specific examples” throughout history. The class discussion will require that students acquire a “familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics.” The main emphasis of the course, however, is to be able to apply a basic comprehension of the U.S. political system to contemporary events.

## PHYSICAL SCIENCE

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video Coming Soon!](#)

First Semester:

Physical Science (1 of 2) examines science as a whole and leads to how methods and tools provide scientists meaningful results. Topics included: chemistry to interpret chemical names, formulas, equations, and models to discover the types and properties of reactions and nuclear reactions and their uses, historical perspectives, and the social impacts.

Grades: 9-12

Prerequisite(s):  
Physical Science First Semester

[Course Intro Video](#)

Second Semester:

Physical Science (2 of 2) explores physics, introduces topics in engineering, and the ways scientists think, communicate, and do their jobs. The topics of motion and force, including the motion of fluids and Newton's law build a foundation to explore thermodynamics, energy, work, machines, waves, electricity, and magnetism.

## BIOLOGY

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Biology (1 of 2) examines the basics of biochemistry and how it helps understand biological systems on Earth. Using logical thinking to identify relationships and draw conclusions, the course expands out from the building blocks of biochemistry to individual cells and cell membranes to understand cell division, reproduction, cell energy and metabolism, and photosynthesis.

Grades: 9-12

Prerequisite(s):  
Biology First Semester

[Course Intro Video](#)

Second Semester:

Biology (2 of 2) examines the basics of genetics, natural selection, ecology, model how matter and energy flow through ecosystems, and the technology to see the larger context and implications. Topics included: biological research topics of ethical guidelines in new biotechnology.



## BIOLOGY HONORS

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Biology (1 of 2) examines life at the cellular level by understanding how the scientific method is used by scientists to investigate questions and present their findings. Topics include chemical make up and size of cells, cell structure, the flow of energy, and how traits are inherited.

Grades: 9-12

Prerequisite(s):  
Biology Honors First Semester

[Course Intro Video](#)

Second Semester:

Biology (2 of 2) examines life on Earth from a big picture perspective by exploring the evolution of species and history of life on Earth. Topics included: living organisms from microorganisms to plants and animals, the human body systems, ecology, and how humans interact with the environment. Historical perspectives and societal impact of biology are included in each lesson.

## CHEMISTRY

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Chemistry (1 of 2) examines basic principles and properties of matter to see its everyday uses. Topics included: atomic models, predicting chemical reactions to see how scientists can engineer them to solve problems.

Grades: 9-12

Prerequisite(s):  
Chemistry First Semester

[Course Intro Video](#)

Second Semester:

Chemistry (2 of 2) examines basic principles and properties of matter to see its everyday uses. Topics included: atomic models, predicting chemical reactions to see how scientists can engineer them to solve problems.

Honors courses are usually reserved for students who excel in the subject matter.



## CHEMISTRY HONORS

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Chemistry (1 of 2) examines basic principles and properties of matter to see its everyday uses. Topics include atomic models, predicting chemical reactions to see how scientists can engineer them to solve problems. The honors course offers additional examples and practice.

Grades: 9-12

Prerequisite(s):  
Chemistry Honors First Semester

[Course Intro Video](#)

Second Semester:

Chemistry (2 of 2) culminates in the ability to evaluate the ethical and social implications of chemistry-related technologies. Topics included: matter, types of bonds and forces that hold atoms and molecules together, states of matter, phase changes, gas laws, solutions, thermodynamics and kinetics of chemical reactions, chemical equilibrium and electrochemistry, radiation and the difference between nuclear fission and fusion. The honors course offers additional examples and practice.

## ENVIRONMENTAL SCIENCE

Grades: 9-12

Prerequisite(s):  
Chemistry First Semester

[Course Intro Video](#)

First Semester:

Environmental Science (1 of 2) examines the relationships between organisms and the environment, including impacts of research on scientific thought and the environment by using scientific practices, evidence-based data and its display, as well understanding how data informs societal decision making.

Grades: 9-12

Prerequisite(s):  
Environmental Science First Semester

[Course Intro Video](#)

Second Semester:

Environmental Science (2 of 2) examines the relationship between humans and the environment including the past, present and future impacts of resource utilization, identifies pollution of the air, soil and water and its sources and discusses regulations and actions that can and have been taken to mitigate harm to the Earth.

Honors courses are usually reserved for students who excel in the subject matter.



## AP<sup>®</sup> BIOLOGY

Grades: 9-12  
Prerequisite(s):  
None

### First Semester:

This course is taught at the college level and designed to prepare students to take the Advanced Placement Examination and score high enough to earn college credit in those colleges that recognize the examination. College level textbooks are used. The course will cover all of the topics in the AP Biology Course Description. These include biochemistry, cell structure and function, cell energetics, cellular reproduction and communication, heredity, molecular genetics, evolution, ecology, diversity of organisms, structure and function of plants and animals, and comparative anatomy.

Grades: 9-12  
Prerequisite(s):  
None

### Second Semester:

This course is taught at the college level and designed to prepare students to take the Advanced Placement Examination and score high enough to earn college credit in those colleges that recognize the examination. College level textbooks are used. The course will cover all of the topics in the AP Biology Course Description. These include biochemistry, cell structure and function, cell energetics, cellular reproduction and communication, heredity, molecular genetics, evolution, ecology, diversity of organisms, structure and function of plants and animals, and comparative anatomy.

## PHYSICS

Grades: 9-12  
Prerequisite(s):  
None

### First Semester:

Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. They then learn to describe and analyze motion in one and two dimensions. Students learn about gravity and Newton's laws of motion before concluding the course with an examination of circular motion. Students apply mathematical concepts such as graphing and trigonometry in order to solve physics problems. Throughout the course, students apply their understanding of physics by playing roles like science museum curator and elementary teacher.

Grades: 9-12  
Prerequisite(s):  
None

### Second Semester:

Physics B continues the student's exploration of mechanics while also guiding them through some other important topics of physics. Students begin by exploring simple harmonic motion, wave properties, and optics. Students then learn the basics of thermodynamics and fluids. Afterwards, the students explore the principles of electricity and magnetism. Finally, students explore the area of physics known as Modern Physics, which includes topics such as the photoelectric effect, nuclear science, and relativity. This is a trig based course. It is assumed you know and can use trigonometry.



## EARTH SCIENCE

Grades: 9-12  
Prerequisite(s):  
None

### First Semester:

The first three modules of Semester 1 cover Scientific Inquiry, the Structure and Composition of the Universe, and the Features of the Solar System. Students learn the importance of scientific inquiry and how to communicate the results of scientific investigations. They then have material on the formation of the universe, including the Big Bang Theory, the motions of celestial objects, and stellar evolution. The third module covers material related to the Solar System, including features of the Sun and the planets and the movements of Earth. The second three modules of Semester 1 cover Weather, Climate, and Earth's Water Cycle. Students first learn in Module 4 about the atmosphere and clouds, as well as the factors that influence local and global climate. In Module 5 they continue by learning about weather and air masses, meteorology and storms. Module 6 then discusses the water cycle, including groundwater and ocean features, as well as water scarcity and pollution.

Grades: 9-12  
Prerequisite(s):  
None

### Second Semester:

The first three modules of Semester 2 cover the physical structure of the Earth and Earth's tectonic system, including the rock cycle, tectonic activity, and mountain building. It then covers weathering and erosion and soil formation. The next material in the course then addresses the concept of systems; it addresses the Earth as a system, feedback in systems, and Earth's major nutrient cycles. The second three modules of Semester 2 cover geologic history, including the evolution of Earth's atmosphere, the geologic time scale, and the fossil record. It then goes over natural resources and the effects of human population on natural resources. The course wraps up with a discussion of human society and its interconnectedness with the Earth's environment, how science and technology work together, and the technological design process in earth science applications.

## MARINE SCIENCE

Grades: 9-12  
Prerequisite(s):  
None

### First Semester:

About 70% of the Earth is covered by water. Even today, much of the world's oceans remain unexplored. Marine scientists make exciting new discoveries about marine life every day. In this course, students will discover the vast network of life that exists beneath the ocean's surface and study the impact that humans have on the oceans.



## ADOBE® ILLUSTRATOR® CERTIFICATION



Grades: 9-12

Prerequisite(s):  
None

Students must have access to the Adobe Illustrator to successfully complete this course

This course introduces students to the Adobe Illustrator and prepares students to take the ACA Certification Exam on Illustrator. Students will get an insight into what it is like working in the graphic design industry. Students will learn everything from absolute basics like navigating Illustrator to performing complex tasks like managing colors, drawing, creating illustrations, and much more. The course contains guided video tutorials, hands-on projects, and step-by-step resources that help students learn how to work in Illustrator.

Adobe® Illustrator®, Adobe® InDesign®, and Adobe® Photoshop® are either registered trademarks or trademarks of Adobe in the United States and/or other countries.

## ADOBE® INDESIGN® CERTIFICATION



Grades: 9-12

Prerequisite(s):  
None

Students must have access to the Adobe InDesign to successfully complete this course

This course introduces students to the world of Adobe InDesign and prepares students to take the ACA Certification Exam on InDesign. Students will get an insight into what it is like working in the print and digital media publishing industry. Over 10 modules, students will learn everything from absolute basics like navigating InDesign to performing complex tasks like creating multi-page documents, applying effects, and even creating original artwork. The course contains guided tutorials, do-it-yourself projects, and great resources that will help students practice and learn how to work in InDesign.

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## ADOBE® PHOTOSHOP® CERTIFICATION



Grades: 9-12

Prerequisite(s):  
None

Students must have access to the Adobe Photoshop to successfully complete this course

This course prepares students to demonstrate expertise in Adobe's Photoshop software and take the ACA Certification Exam on Photoshop. Students will learn through engaging and interactive content, projects and practice exam items aligned to the learning objectives outlined by Adobe's exam specifications. Students will leave this course with career-ready, real-time skills in one of the most popular software programs in the world!

Adobe® Illustrator®, Adobe® InDesign®, and Adobe® Photoshop® are either registered trademarks or trademarks of Adobe in the United States and/or other countries.



## ACCOUNTING



Grades: 9-12  
Prerequisite(s):  
None

In this semester course, you will explore accounting, including investigating accounting careers. You will learn basic accounting skills and procedures both with and without a computer for general journals, general ledgers, cash payments journals, cash receipts journals, sales journals, accounts payable ledgers, and accounts receivable ledgers. You will also learn how to reconcile a bank statement and to prepare payroll records. This course covers the basic principles of financial accounting for individuals and for companies with attention to both the mathematical formulas and to the ethical side of accounting. Each unit has practical exercises including a project at the end of the unit.

## ANATOMY

Grades: 9-12  
Prerequisite(s):  
None

The aim of this course is to expand upon what was learned in your Biology class, while emphasizing the application of this material to human structures and functions. This course begins the study of human beings at the microscopic level and works its way up to an in-depth study of select organ systems. Special emphasis will be placed upon applying and demonstrating the information learned in this course through, not only tests and quizzes, but through special projects and collaboration as well.

## ART HISTORY: ORIGINS



Grades: 9-12  
Prerequisite(s):  
None  
[Course Intro Video](#)

Art History: Origins (1 of 1) explores art of the prehistoric, ancient, medieval, Renaissance and Rococo periods to understand how to read and interpret art.

*\*Given the subject matter, the course is extensively visual. Please also be aware that this course includes depictions of nudity, as many art movements celebrated the human form. Many important and influential works of art include nudity, and it would be nearly impossible to teach art history without including them.*

## ART HISTORY: MODERN



Grades: 9-12  
Prerequisite(s):  
None  
[Course Intro Video](#)

Art History: Modern (1 of 1) explores art of the late 1700s to modernity from Western movements in artworks and architecture to China, Japan, Africa, Oceania, Southeast Asia, India.

*\*Given the subject matter, the course is extensively visual. Please also be aware that this course includes depictions of nudity, as many art movements celebrated the human form. Many important and influential works of art include nudity, and it would be nearly impossible to teach art history without including them.*



## BUSINESS LAW



Grades: 9-12  
Prerequisite(s):  
None

Students learn about the American legal system. They examine ethics, court systems, criminal law, and law of torts. They examine how the court systems work together, and what misconduct results in going to court. It is important to also understand your consumer rights. As they progress through the course, they will also gain an understanding from a business perspective what is right and wrong business actions and employment laws. As an employee or employer it is important to understand the laws that protect the employee and employer. The study will focus on the formation of a business and the basic legal issues associated with each type of business.

## CAREER PLANNING



Grades: 9-12  
Prerequisite(s):  
None

The Career Planning course guides students through the essential elements of the career planning process and the development of a defined career plan. Students will consider the many factors that impact career success and satisfaction. Using a process of investigation, research, and self-discovery, students will acquire the understandings critical to the career planning process. Upon completion of the course, students will have created a practical and comprehensive college or career transition portfolio that reflects their skills and abilities, as well as their interests, values, and goals.

## CHARACTER EDUCATION



Grades: 6-12  
Prerequisite(s):  
None  
[Course Intro Video](#)

Character Education (1 of 1) explores values of truthfulness, trustworthiness, responsibility, diligence, and integrity. The course offers specific, real world situations to interpret and connect to these traits to provide safe and appropriate ways to respond in real time. Topics included: identifying bullying, how to develop a bullying-prevention mindset.

## CRIMINOLOGY & FORENSICS



Grades: 9-12  
Prerequisite(s):  
None

[Course Intro Video - Coming Soon](#)

Criminology and Forensics (1 of 1) is a beginner level course on the topics of crime and forensic procedures exploring topics on crime and criminology, witnesses and perpetrators, and the crime lab.



## CRIMINOLOGY & JUSTICE



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video - Coming Soon](#)

Criminology and Justice (1 of 1) is a beginner-level course on criminal procedures that explores the criminal justice system, non-forensic evidence, and what happens inside the courtroom. It is an introduction the Public Services CTE pathway.

## DRONES: REMOTE PILOT CERTIFICATION



Grades: 9-12

Prerequisite(s):  
None

This course prepares students to take the Federal Aviation Administration's Part 107 exam, which is essential to becoming a commercial drone pilot. The field of unmanned aerial vehicles is growing rapidly, as the opportunities to use them for search and rescue, photography, recreation, inspection, and many others continue to multiply. Students will learn the critical facts to prepare for the test's topics, which include: regulations, airspace & requirements, weather, loading & performance, and operations. The course will conclude with a look at the most promising careers in the field of drones.

## ENTREPRENEURSHIP



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Entrepreneurship (1 of 1) explores entrepreneurial characteristics, business leadership, and the skills and steps involved in marketing, developing, starting, and exiting a business. Key topics and activities include hands-on projects to apply the knowledge as a small business owner and entrepreneur. The course is aligned to the Marketing, Sales, and Services CTE pathway.

## FASHION DESIGN

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Fashion Design (1 of 2) explores the tools and principles of fashion design. Topics included: the use of color, creation of an inspiration board, fabrics and materials, and tools and machines used by fashion designers.

Grades: 9-12

Prerequisite(s):  
Fashion Design First Semester

[Course Intro Video](#)

Second Semester:

Fashion Design (2 of 2) explores the skills and education required in the fashion industry. Topics included: the range of jobs in the industry, skills for success, such as interviewing, workplace communication, and teamwork.



## GAMING UNLOCKED



Grades: 6-12

Prerequisite(s):  
None

[Course Intro Video](#)

Gaming Unlocked (1 of 1) researches the basics of gaming, from what makes games fun to what makes them work by exploring quality in a variety of games such as mental games, board games, and video games.

This course does *not* require students to know or learn a programming language. The emphasis is on the history and design of games and the different careers available in the gaming industry.

## GRAPHIC & WEB DESIGN



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Graphic and Web Design (1 of 1) explores visual communication and explores the range of careers in the field. Topics included: principles of design, ethics of creative fields, and the publishing process.

## INTERIOR DESIGN

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Interior Design (1 of 2) explores the principles and elements of design. Topics included: skills, roles and responsibilities of interior designers, specialties of interior design, history of design, design materials, furniture, accessories, and modern developments affecting interior design, such as the Americans with Disabilities Act (ADA), universal design, and green design.

Grades: 9-12

Prerequisite(s):  
Interior Design First Semester

[Course Intro Video](#)

Second Semester:

Interior Design (2 of 2) explores career options in residential, commercial, and mobile design, getting credentialed, and networking in professional organizations. Topics included: leadership, group dynamics, codes of ethics; lighting, windows, walls, furniture, accessories, textiles, and floor treatments in residential and commercial designs as well as related information on materials, fabrication, and installation; review of the elements and principles of design, the Americans with Disabilities Act (ADA), and universal design.

## INTRO TO BUSINESS



Grades: 9-12

Prerequisite(s):  
None

This course introduces students to the basic business concepts that will help them understand how a business survives in today's economy and the role that consumers play in the same economy. Students will learn how to balance a checkbook, save for the future, and use credit wisely. Students will also learn how to create a resume and how to participate in a job interview.



## JOURNALISM



Grades: 9-12  
Prerequisite(s):  
None

This course is designed to prepare you to become a student of journalism and media. The work we do here will equip you with the critical skills you must have to succeed in high school media, college media, and beyond. We will read a variety of journalistic material and do a great deal of news writing. We will also look at journalism from legal, ethical, and historic vantage points. Expect to complete numerous writing activities in a variety of styles including editorial, hard news, feature, review, and more. If you participate actively, you will gain tremendous skills that will serve you for the rest of your life. Individual and group project will also be a part of this class. This course is a project based course and does not include traditional tests, unit level understanding is assessed through unit projects.

## PHOTOGRAPHY BASICS



Grades: 6-12  
Prerequisite(s):  
None  
[Course Intro Video](#)

Photography Basics (1 of 1) explores proper use of photography equipment, how to build a portfolio of work, and describes the steps to starting a career in this field. Topics included: the habits and etiquette of the profession.

*\*Photography equipment is not needed. Practice is offered through digital simulations.*

## PHYSIOLOGY 1

Grades: 9-12  
Prerequisite(s):  
None

The aim of this course is to expand upon what was learned in your Biology class, while emphasizing the application of this material to human structures and functions. This course begins the study of human beings at the microscopic level and works its way up to an in-depth study of select organ systems. Special emphasis will be placed upon applying and demonstrating the information learned in this course through, not only tests and quizzes, but through special projects and collaboration as well.

## PHYSIOLOGY 2

Grades: 9-12  
Prerequisite(s):  
None

The aim of this course is to expand upon what was learned in your Biology class, while emphasizing the application of this material to human structures and functions. This course begins the study of human beings at the microscopic level and works its way up to an in-depth study of select organ systems. Special emphasis will be placed upon applying and demonstrating the information learned in this course through, not only tests and quizzes, but through special projects and collaboration as well.



## PRINCIPLES OF MARKETING



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Principles of Marketing (1 of 1) explores the interactions between businesses, consumers, and the economy as well as the role of marketing and how marketers get their information. The course culminates in the creation of a marketing plan.

## PROFESSIONAL SALES



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Professional Sales (1 of 1) explores the role sales plays in the national economy, the importance of ethical behavior in business. Topics included: how to build, train, motivate, and evaluate a sales team; the role of buying motives; the selling process; and the importance of data. The course is aligned to the Marketing, Sales, and Services CTE pathway.

## PSYCHOLOGY

*\*This course may be taken as a full year, or just (1 of 2) for a semester course.*

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Psychology (1 of 2) explores human behavior, behavior interaction and the progressive development of individuals. Topics included: major theories and orientations of psychology, psychological methodology, human growth and development, individual variation and personality, psychobiology, as well as sensation and perception.

Grades: 9-12

Prerequisite(s):  
Psychology First Semester

[Course Intro Video](#)

Second Semester:

Psychology (2 of 2) explores human social interactions, psychological therapies, and careers in the field. Topics included: psychological perspectives, positive relationships, social and cultural diversity, language structures, memory and cognition, psychological testing, statistical research, stress/coping strategies, and mental health.

## PUBLIC SPEAKING



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Public Speaking (1 of 1) explores effective communication skills for success in a variety of speaking situations. Topics include: small and large group discussions, delivery speeches in front of audiences, research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of self-confidence.



## SOCIOLOGY



Grades: 9-12

Prerequisite(s):  
None

Sociology examines the basics of sociology, which is the study of society including individuals, human groups, and organizations. The course is divided into four main areas: the sociological perspective, social structures, inequality in society, and social institutions and change. Students will examine controversies around social change, inequality, gender, and race. The course revolves around an overview of the field with projects that offer the student a chance to explore from a sociologist's perspective.



## HEALTH 101



Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Health 101 (1 of 2) explores how behavioral choices, such as nutrition and physical activity, affect health, then provides information to make healthy choices. Topics included: nutrition and physical activity; growth, development, and sexual health; safety and injury prevention; alcohol, tobacco, and other drugs; mental, emotional, and social health; and personal and community health.

## PHYSICAL EDUCATION 1

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Physical Education 1A (1 of 1) examines the importance of physical activity, personal fitness, and healthy eating habits. Topics included: useful techniques and different aspects of sport and recreation, a personal fitness evaluation, the design of a personal exercise plan and tracking of results.

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

Physical Education 1B (1 of 1) explores key concepts that lead to improved fitness, wellness, and overall health. Topics included: description of the human body, including anatomy, physiology, and nutrition; practical applications, such as metabolism manipulation, correct exercise form, and effective programming for personal health goals.



## PERSONAL FITNESS

Grades: 9-12

Prerequisite(s):  
Physical Education 1

[Course Intro Video](#)

Personal Fitness A (1 of 1) explores key concepts from combative sports, gymnastics and tumbling, and a variety of team sports and activities. The focus is on advanced fitness guidelines and cognitive factors that affect performance. Topics included: motor skill development, game strategy, self-evaluation of fitness, setting goals, designing an exercise plan, and tracking results.

Grades: 9-12

Prerequisite(s):  
Physical Education 1

[Course Intro Video](#)

Personal Fitness B (1 of 2) explores how to develop personalized physical fitness plans while completing physical activities throughout the course. Topics included: how to assess fitness levels, modify fitness goals, evaluate fitness products and programs, leadership, and progress tracking in a daily physical activity log.

## SPANISH 1

Grades: 9-12  
 Prerequisite(s):  
 None  
[Course Intro Video](#)

### First Semester:

Spanish 1 (1 of 2) introduces the basics of the Spanish language by learning through reading, writing, listening, and speaking about personal interests and hobbies, asking for directions, and how to discuss activities with friends using vocabulary associated with restaurants, traveling, vacations. The course also explores cultures of some Spanish-speaking countries, such as Mexico, Colombia, Argentina, Spain, and Peru.

Grades: 9-12  
 Prerequisite(s):  
 Spanish 1 First Semester  
[Course Intro Video](#)

### Second Semester:

Spanish 1 (2 of 2) explores how to discuss school subjects, professions, and daily routines, as well as illness and injury, shopping, and money through reading, writing, listening, and speaking. The course also explores cultures of some Spanish-speaking countries, such as Venezuela, Chile, Ecuador, Guatemala, and Cuba.

## SPANISH 2

Grades: 9-12  
 Prerequisite(s):  
 Spanish 1  
[Course Intro Video](#)

### First Semester:

Spanish 2 (1 of 2) introduces the basics of the Spanish language by learning through reading, writing, listening, and speaking about personal interests and hobbies, asking for directions, and discussing activities with friends using vocabulary associated with restaurants, traveling, vacations. The course also explores cultures of some Spanish-speaking countries, such as Mexico, Colombia, Argentina, Spain, and Peru.

Grades: 9-12  
 Prerequisite(s):  
 Spanish 2 First Semester  
[Course Intro Video](#)

### Second Semester:

Spanish 2 (2 of 2) continues to build reading, writing, listening, and speaking skills in order to discuss transportation, extracurricular interests, professions, cuisine, clothing, health, and technology. Topics included: present, past, future, and conditional tenses, present subjunctive mood, explores cultures of some Spanish-speaking countries, such as the Dominican Republic, Equatorial Guinea, Honduras, Uruguay, and Panama.

## SPANISH 3

Grades: 9-12  
 Prerequisite(s):  
 Spanish 2  
[Course Intro Video](#)

### First Semester:

Spanish 3 (1 of 2) builds reading and writing of informative, argumentative, and descriptive texts, listening, and speaking skills using the indicative subjunctive, and imperative moods. The course also explores significant historical events of some Spanish-speaking countries, as well as cultural products, practices, and philosophies.

Grades: 9-12  
 Prerequisite(s):  
 Spanish 3 First Semester  
[Course Intro Video](#)

### Second Semester:

Spanish 3 (2 of 2) continues acquiring the Spanish language through reading poems and short stories by notable Spanish-language authors. The continuation of writing, listening, and speaking includes exploring behavioral norms in different Spanish-speaking cultures, in order to discuss these topics in the indicative and subjunctive moods in a variety of tenses.



## AP® SPANISH LANGUAGE

Grades: 9-12

Prerequisite(s):  
None

### First Semester:

The AP Spanish Language and Culture course is an advanced language course in which students are directly prepared for the AP Spanish Language and Culture test. It uses as its foundation the three modes of communication: interpersonal, interpretive and presentational. The course is conducted almost exclusively in Spanish. The course is based on the six themes required by the College Board: (1) global challenges, (2) science and technology, (3) contemporary life, (4) personal and public identities, (5) families and communities, and (6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide-variety of authentic Spanish-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using Spanish, gain knowledge and understanding of the cultures of Spanish speaking areas of the world, use Spanish to connect with other disciplines and expand knowledge in a wide-variety of contexts, develop insight into the nature of the Spanish language and its culture, and use Spanish to participate in communities at home and around the world. The AP Spanish Language and Culture course is a college level course. The intensity, quality, and amount of course material can be compared to that of a third-year college course.

Grades: 9-12

Prerequisite(s):  
Spanish 1 First Semester

### Second Semester:

The AP Spanish Language and Culture course is an advanced language course in which students are directly prepared for the AP Spanish Language and Culture test. It uses as its foundation the three modes of communication: interpersonal, interpretive and presentational. The course is conducted almost exclusively in Spanish. The course is based on the six themes required by the College Board: (1) global challenges, (2) science and technology, (3) contemporary life, (4) personal and public identities, (5) families and communities, and (6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide-variety of authentic Spanish-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using Spanish, gain knowledge and understanding of the cultures of Spanish speaking areas of the world, use Spanish to connect with other disciplines and expand knowledge in a wide-variety of contexts, develop insight into the nature of the Spanish language and its culture, and use Spanish to participate in communities at home and around the world. The AP Spanish Language and Culture course is a college level course. The intensity, quality, and amount of course material can be compared to that of a third-year college course.



## FRENCH 1

Grades: 9-12  
Prerequisite(s):  
None

### First Semester:

French 1 focuses on developing listening skills by repeated exposure to the spoken language. Speaking skills are encouraged through recommended assignments using voice tools. Reading and writing skills, as well as language structures, are practiced through meaningful, real-life contexts. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

Grades: 9-12  
Prerequisite(s):  
None

### Second Semester:

French 1 focuses on developing listening skills by repeated exposure to the spoken language. Speaking skills are encouraged through recommended assignments using voice tools. Reading and writing skills, as well as language structures, are practiced through meaningful, real-life contexts. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

## FRENCH 2

Grades: 9-12  
Prerequisite(s):  
None

### First Semester:

Semester A focuses on the continuation and enhancement of language skills presented in Level 1. Vocabulary and grammar structures are revisited and expanded to provide students an opportunity to move towards an intermediate comprehension level. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities, reading of culturally-related articles of interest and responding to reading in the target language. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

Grades: 9-12  
Prerequisite(s):  
None

### Second Semester:

Semester B continues the enhancement of language skills. Vocabulary and grammar structures are revisited and expanded as students explore other French-speaking areas. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities related to travel, to the Olympics, to natural disasters, and to the space program. Reading of culturally related articles of interest and responding to reading in the target language, along with the use of technology, reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.



## AMERICAN SIGN LANGUAGE 1

Grades: 9-12

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

American Sign Language 1 (1 of 2) provides an introduction to American Sign Language (ASL). The course provides guidance in how to communicate with ASL across a variety of basic subjects, including greetings and introductions, information sharing, personal characteristics, family, travelling, and living spaces. The course also explores details about Deaf culture, the history of ASL, and the general rules and concepts needed for communicating effectively through sign language, including fingerspelling and signing parameters.

Grades: 9-12

Prerequisite(s):  
None

Course Intro Video Coming Soon!

Second Semester:

American Sign Language 1 (2 of 2) continues to explore introductory concepts in American Sign Language (ASL). The course builds on the first half to guide students in how to communicate on a variety of basic subjects, including with food items, directions, store interactions, job roles, health topics, and plans built around schedules and times. The course also highlights more details about Deaf culture, the history of ASL, and the general rules and concepts needed for communicating effectively through sign language, including classifiers and specific grammar rules.

## AMERICAN SIGN LANGUAGE 2

Grades: 9-12

Prerequisite(s):  
None

Course Intro Video Coming Soon!

First Semester:

American Sign Language 2 (1 of 2) explores intermediate concepts related to Deaf culture and American Sign Language (ASL). The course begins with a review of cultural facts and ASL rules and concepts from American Sign Language 1. New topics that follow include major milestones and famous figures in Deaf cultural history, appropriate etiquette and behaviors in Deaf interactions, ASL literature and performances, and different language styles and skills among Deaf communities, among others. Projects throughout the course will assess knowledge of signing vocabulary and mastery of proper signing form.

Grades: 9-12

Prerequisite(s):  
None

Course Intro Video Coming Soon!

Second Semester:

*American Sign Language 2 (2 of 2) description coming soon!*

## ENGLISH 6

Grade: 6  
 Prerequisite(s):  
 Skills/concepts covered in  
 5th grade English Language Arts  
[Course Intro Video](#)

### First Semester:

English 6 (1 of 2) analyzes informational texts, including biographies, primary documents, instructional documents, film reviews, and persuasive letters. Reading selections include the novel *The Road* by Jack London and informational texts on topics such as the science behind sunsets, the lives of important historical figures, the history of the Olympics, and the process of flotation used by archaeologists. Reading selections demonstrate concepts such as explicit and implicit information, central ideas and key details, and claims and arguments.

Grade: 6  
 Prerequisite(s):  
 English 6 First Semester  
[Course Intro Video](#)

### Second Semester:

English 6 (2 of 2) explores literary texts from various genres, including novels, short stories, poems, and plays. Readings include *The Wonderful Wizard of Oz* by L. Frank Baum, excerpts from *Little Women* and *The Adventures of Tom Sawyer*, and poetry by Robert Louis Stevenson, Robert Frost, and Carl Sandburg as well multimedia readings of several videos of famous poems to demonstrate explicit and implicit information, theme, characters, plot, poetic techniques, and figurative language.

## ENGLISH 6 HONORS

Grade: 6  
 Prerequisite(s):  
 Skills/concepts covered in  
 5th grade English Language Arts  
[Course Intro Video](#)

### First Semester:

English 6 (1 of 2) analyzes informational texts, including biographies, primary documents, instructional documents, film reviews, and persuasive letters. Reading selections include the novel *The Road* by Jack London and informational texts on topics such as the science behind sunsets, the lives of important historical figures, the history of the Olympics, and the process of flotation used by archaeologists. Reading selections demonstrate concepts such as explicit and implicit information, central ideas and key details, and claims and arguments.

Honors includes additional examples and practice for students.

Grade: 6  
 Prerequisite(s):  
 English 6 Honors First Semester  
[Course Intro Video](#)

### Second Semester:

English 6 (2 of 2) explores literary texts from various genres, including novels, short stories, poems, and plays. Readings include *The Wonderful Wizard of Oz* by L. Frank Baum, excerpts from *Little Women* and *The Adventures of Tom Sawyer*, and poetry by Robert Louis Stevenson, Robert Frost, and Carl Sandburg as well multimedia readings of several videos of famous poems to demonstrate explicit and implicit information, theme, characters, plot, poetic techniques, and figurative language.

Honors includes additional examples and practice for students.

Honors courses are usually reserved for students who excel in the subject matter.



## ENGLISH 7

Grade: 7

Prerequisite(s):  
English 6 or equivalent  
6th grade English Language Arts

[Course Intro Video](#)

First Semester:

English 7 (1 of 2) explores informational texts, including biographies, personal accounts of events, presidential speeches, persuasive letters, and differences between types of musical genres. Readings include texts about historical figures such as *The Story of My Life* by Helen Keller, Jane Goodall, and Zora Neale Hurston to demonstrate concepts such as explicit and implicit information, central ideas and key details, and claims and arguments.

Grade: 7

Prerequisite(s):  
English 7 First Semester

[Course Intro Video](#)

Second Semester:

English 7 (2 of 2) analyzes literary texts from novels, short stories, fairy tales, poems, and plays. Readings include *Alice's Adventures in Wonderland* by Lewis Carroll, excerpts from *Black Beauty*, and poetry by Emily Dickinson, Robert Frost, William Wordsworth to demonstrate concepts such as comparing how written texts are portrayed in film or audio and ways to understand explicit and implicit information, theme, characters, plot, poetic and dramatic techniques, and figurative language.

## ENGLISH 7 HONORS

Grade: 7

Prerequisite(s):  
English 6 or equivalent  
6th grade English Language Arts

[Course Intro Video](#)

First Semester:

English 7 (1 of 2) explores informational texts, including biographies, personal accounts of events, presidential speeches, persuasive letters, and differences between types of musical genres. Readings include texts about historical figures such as *The Story of My Life* by Helen Keller, Jane Goodall, and Zora Neale Hurston to demonstrate concepts such as explicit and implicit information, central ideas and key details, and claims and arguments.

Honors includes additional examples and practice for students.

Grade: 7

Prerequisite(s):  
English 7 Honors First Semester

[Course Intro Video](#)

Second Semester:

English 7 (2 of 2) analyzes literary texts from novels, short stories, fairy tales, poems, and plays. Readings include *Alice's Adventures in Wonderland* by Lewis Carroll, excerpts from *Black Beauty*, and poetry by Emily Dickinson, Robert Frost, William Wordsworth to demonstrate concepts such as comparing how written texts are portrayed in film or audio and ways to understand explicit and implicit information, theme, characters, plot, poetic and dramatic techniques, and figurative language.

Honors includes additional examples and practice for students.

Honors courses are usually reserved for students who excel in the subject matter.





## ENGLISH 8

Grade: 8

Prerequisite(s):  
English 7 or equivalent  
7th grade English Language Arts

[Course Intro Video](#)

First Semester:

English 8 (1 of 2) explores analysis of literary and informational texts, including novels, short stories, myths, poems, magazine articles, and autobiographies. Readings include *The Call of the Wild*, short stories such as “The Lottery” and “The Tell-Tale Heart,” and infographics and videos to demonstrate concepts such as explicit and implicit information, theme, central idea, figurative language, grammar, usage, and punctuation. Writings include the planning, creating, writing, revising, and editing of a fictional narrative.

Grade: 8

Prerequisite(s):  
English 8 First Semester

[Course Intro Video](#)

Second Semester:

English 8 (2 of 2) explores literary and informational texts, including novels, short stories, poems, articles, and political speeches. Readings include excerpts from the novels *Fahrenheit 451*, *Hatchet*, and *Black Beauty*, informational texts about topics such as global warming, fast food, the widespread presence of corn in food, and how sleep affects learning ability, infographics and videos to demonstrate concepts such as explicit and implicit information, theme, central idea, figurative language, grammar, usage, punctuation. Writings include informational and argument.

## ENGLISH 8 HONORS

Grade: 8

Prerequisite(s):  
English 7 or equivalent  
7th grade English Language Arts

[Course Intro Video](#)

First Semester:

English 8 (1 of 2) explores analysis of literary and informational texts, including novels, short stories, myths, poems, magazine articles, and autobiographies. Readings include *The Call of the Wild*, short stories such as “The Lottery” and “The Tell-Tale Heart,” and infographics and videos to demonstrate concepts such as explicit and implicit information, theme, central idea, figurative language, grammar, usage, and punctuation. Writings include the planning, creating, writing, revising, and editing of a fictional narrative.

Honors includes additional examples and practice for students.

Grade: 8

Prerequisite(s):  
English 8 Honors First Semester

[Course Intro Video](#)

Second Semester:

English 8 (2 of 2) explores literary and informational texts, including novels, short stories, poems, articles, and political speeches. Readings include excerpts from the novels *Fahrenheit 451*, *Hatchet*, and *Black Beauty*, informational texts about topics such as global warming, fast food, the widespread presence of corn in food, and how sleep affects learning ability, infographics and videos to demonstrate concepts such as explicit and implicit information, theme, central idea, figurative language, grammar, usage, punctuation. Writings include informational and argument.

Honors includes additional examples and practice for students.

## INTENSIVE READING

Grades: 6-8

Prerequisite(s):  
None

[Course Intro Video](#)

Intensive Reading (1 of 1) explores foundational reading skills for middle-school students to remediate gaps in reading fluency, comprehension, vocabulary and vocabulary skills, grammar skills, and writing fluency through responses to a variety of literary and informational texts.

Honors courses are usually reserved for students who excel in the subject matter.

## MATH 6

Grade: 6  
Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Math 6 (1 of 2) builds on previously learned concepts such as adding, subtracting, multiplying, and dividing and deepening knowledge of arithmetic with fractions, decimals, and negative numbers to solve real-world problems. Topics included: ratios, unit conversions, geometry, and working with equations.

Grade: 6  
Prerequisite(s):  
Math 6 First Semester

[Course Intro Video](#)

Second Semester:

Math 6 (2 of 2) builds on previously learned concepts such as adding, subtracting, multiplying, and dividing and deepening knowledge of arithmetic with fractions, decimals, and negative numbers to solve real-world problems. Topics included: ratios, unit conversions, geometry, and working with equations.

## MATH 6 HONORS

Grade: 6  
Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Math 6 (1 of 2) builds on previously learned concepts such as adding, subtracting, multiplying, and dividing and deepening knowledge of arithmetic with fractions, decimals, and negative numbers to solve real-world problems. Topics included: statistics, ratios, unit conversions, geometry, writing and evaluating expressions with variables and exponents, and working with equations.

Grade: 6  
Prerequisite(s):  
Math 6 Honors First Semester

[Course Intro Video](#)

Second Semester:

Math 6 (2 of 2) builds on concepts such as positive and negative integers and fractions to learn about rational numbers and how to compare them. Topics included: finding the distance between points on the number line and in the coordinate plane, solving geometry problems, relationships between variables and how to represent them, ratios and unit rates, solving real-world problems, data and how to display and mathematically describe data.

Honors courses are usually reserved for students who excel in the subject matter.



## MATH 7

Grade: 7

Prerequisite(s):

Math 6

[Course Intro Video](#)

First Semester:

Math 7 (1 of 2) explores adding, subtracting, multiplying and dividing rational numbers by using analogies, number lines, rules, and properties. Topics include solving problems involving proportional relationships given in tables, diagrams, graphs, equations, and verbal descriptions. Geometry topics include solving problems involving scale drawings, circles, angle relationships, areas, volumes, three-dimensional shapes, and drawing geometric shapes.

Grade: 7

Prerequisite(s):

Math 7 First Semester

[Course Intro Video](#)

Second Semester:

Math 7 (2 of 2) explores subtracting and dividing rational numbers by using different methods to perform four operations. Topics included: interpreting proportional relationships and equivalent expressions, writing and solving linear equations and inequalities to solve real-world problems, comparing two data sets of random samples using their center values and variability measures to make conclusions about populations. Geometry topics include solving problems that involve the area, surface area, volume, and cross-sections of two- or three-dimensional objects.

## MATH 7 HONORS

Grade: 7

Prerequisite(s):

Math 6

[Course Intro Video](#)

First Semester:

Math 7 (1 of 2) explores adding and multiplying rational numbers by using number lines, rules, and properties. Topics included: how to solve problems by finding and comparing unit rates, writing expressions using properties, writing and solving simple linear equations using different methods, probability and statistics to interpret and calculate simple probabilities, and populations and samples. Geometry topics include solving problems involving scale drawings, circles, and angle relationships.

Grade: 7

Prerequisite(s):

Math 7 Honors First Semester

[Course Intro Video](#)

Second Semester:

Math 7 (2 of 2) explores subtracting and dividing rational numbers by using different methods to perform four operations. Topics included: interpreting proportional relationships and equivalent expressions, writing and solving linear equations and inequalities to solve real-world problems, comparing two data sets of random samples using center values and variability measures to make conclusions about populations. Geometry topics include solving problems that involve the area, surface area, volume, and cross-sections of two- or three-dimensional objects.

Honors courses are usually reserved for students who excel in the subject matter.



## MATH 8

Grade: 8

Prerequisite(s):  
Math 7

[Course Intro Video](#)

First Semester:

Math 8 (1 of 2) explores rational and irrational numbers, solving linear equations from contextual situations, and analyzing properties of functions with a focus on linear functions.

Grade: 8

Prerequisite(s):  
Math 8 First Semester

[Course Intro Video](#)

Second Semester:

Math 8 (2 of 2) explores multi-step equations and proportions, applies knowledge of proportional relationships to geometry to perform transformations on figures, and prove similarity of figures through a series of transformations. Topics included: analyzing linear relationships and functions, solving systems of linear equations using different methods, application of algebraic skills to statistics, analyze and interpret patterns in bivariate data, and finding volumes of circular three-dimensional objects.

## MATH 8 HONORS

Grade: 8

Prerequisite(s):  
Math 7

[Course Intro Video](#)

First Semester:

Math 8 (1 of 2) explores rational and irrational numbers, solving linear equations from contextual situations, analyzing properties of functions with a focus on linear functions, and scientific notation. Geometric topics include rigid transformations on figures and proving congruence of figures through a series of rigid transformations.

Grade: 8

Prerequisite(s):  
Math 8 Honors First Semester

[Course Intro Video](#)

Second Semester:

Math 8 (2 of 2) explores multi-step equations and proportions, applies knowledge of proportional relationships to geometry to perform transformations on figures, and prove similarity of figures through a series of transformations. Topics included: analyzing linear relationships and functions, solving systems of linear equations using different methods, application of algebraic skills to statistics, analyze and interpret patterns in bivariate data, and finding volumes of circular three-dimensional objects.

## PRE-ALGEBRA



Grades: 6-9

Prerequisite(s):  
None

[Course Intro Video](#)

Pre-Algebra is a one-semester math course to build an algebraic foundation to prepare students for Algebra I. Topics included: reviewing integers and rational numbers, properties of numbers and working with exponents and roots, mastering the order of operations, variables, how to simplify expressions and solve multi-step equations, lines and linear equations, ordered pairs, the coordinate plane, and graphs.

Honors courses are usually reserved for students who excel in the subject matter.

## SOCIAL STUDIES 6

Grade: 6  
 Prerequisite(s):  
 None  
[Course Intro Video](#)

### First Semester:

Social Studies 6 (1 of 2) explores geographical, social, economic, and political foundations of early civilizations in Mesopotamia, Egypt, Ancient Israel, and India as they shift from nomadic societies to agricultural societies. The study of these civilizations includes the impact of geography, early history, cultural development, and economic change. The geographic focus includes the study of physical and political features, economic development and resources, and migration patterns.

Grade: 6  
 Prerequisite(s):  
 Social Studies 6 First Semester  
[Course Intro Video](#)

### Second Semester:

Social Studies 6 (2 of 2) explores the geographic, political, economic, and cultural development of ancient Greece, Rome, and China and applies historical thinking skills to understand implications of ancient literature, art, and philosophy on later Western culture. The course examines the birth and spread of Judaism, Christianity, Taoism, and Confucianism.

## SOCIAL STUDIES 7

Grade: 7  
 Prerequisite(s):  
 None  
[Course Intro Video](#)

### First Semester:

Social Studies 7 (1 of 2) explores the social, cultural, and technological developments occurring concurrently in Europe, Africa, and Asia in the years AD 500–1789. It also examines how archaeologists and historians uncover the past.

Grade: 7  
 Prerequisite(s):  
 Social Studies 7 First Semester  
[Course Intro Video](#)

### Second Semester:

Social Studies 7 (2 of 2) explores the growing economic interaction among civilizations during the Renaissance, Reformation, the Age of Exploration, and how the Enlightenment gave rise to democratic ideas that still resonate today. Topics included: the exchange of ideas, beliefs, technologies, and commodities inspire the Enlightenment philosophy and the interest in reason and authority, natural rights of human beings, the divine right of kings, experimentalism in science, and the dogma of belief.



## SOCIAL STUDIES 8

Grade: 8  
Prerequisite(s):  
None

[Course Intro Video](#)

### First Semester:

Social Studies 8 (1 of 2) explores early American history from pre-Columbian era and closely examines the evolution from the British Colonies to the creation of the United States. A close look at the ideology of the framing documents and nature of the American republic set against the backdrop of the challenges of growth and sectional divisions and conflict.

Grade: 8  
Prerequisite(s):  
Social Studies 8 First Semester

[Course Intro Video](#)

### Second Semester:

Social Studies 8 (2 of 2) explores westward expansion, early Spanish missions in western North America through to Reconstruction, the Second Industrial Revolution, and connects these events to how policies and cultures are shaped. Topics included: causes and effects of the Texas Revolution and the Mexican American War; the California gold rush; American Civil War, Indian Wars of the 19th Century.

## CIVICS

Grades: 7-8  
Prerequisite(s):  
None

[Course Intro Video](#)

### First Semester:

Civics (1 of 2) examines the general structure and functions of the US systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. Topics included: The Declaration of Independence, analysis of the principles US Constitution and the debates surrounding its ratification, examining validity of sources, landmark Supreme Court cases, and the voting process.

Grades: 7-8  
Prerequisite(s):  
Civics First Semester

[Course Intro Video](#)

### Second Semester:

Civics (2 of 2) explores the economic structures for individuals, businesses, and government; the examination of how institutions influence the market economy; and how government interacts and influences the private sector. Topics included: personal finance, preparing a personal budget, national budget, analysis of interest rates, investing, debt, influence of natural resources on economies, trade, market systems, taxes, labor, and regulatory agencies.

## SCIENCE 6

Grade: 6

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Science 6 (1 of 2) investigates the interaction between systems and what factors affect their growth, and the life cycles of plants and animals to find out how they reproduce plants and animals. Topics included: cells, the hierarchy of organization, covering tissues, organs, and organ systems.

Grade: 6

Prerequisite(s):  
Science 6 First Semester

[Course Intro Video](#)

Second Semester:

Science 6 (2 of 2) explores topics through many creative and interactive assets, including virtual labs and review games to immerse students in 21st-century online learning. Topics included: energy and its transformation, matter, natural cycles, the effect of the sun on ocean and air currents, different types of pollution, and the effects of greenhouse gases on the Earth's climate.

## SCIENCE 7

Grade: 7

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Science 7 (1 of 2) examines concepts from the fields of chemistry, biology, and ecology. The relationship between matter, energy, and chemical reactions is explored to understand cellular respiration and photosynthesis, while synthetic materials are analyzed to see how they impact society.

Grade: 7

Prerequisite(s):  
Science 7 First Semester

[Course Intro Video](#)

Second Semester:

Science 7 (2 of 2) investigates concepts from ecology and geology to explore the interactions between and among organisms in an ecosystem. Topics covered include types of rocks, the rock cycle, and Earth's resources to explore how Earth's processes can lead to natural hazard events and severe weather, and then discover how technology can help during disasters, as well as other benefits of technology.



## SCIENCE 8

Grade: 8

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Science 8 (1 of 2) examines life science concepts from biology, ecology, environmental sciences, and explores scientific process to investigate the questions of ecology and genetic technology.

Grade: 8

Prerequisite(s):  
Science 8 First Semester

[Course Intro Video](#)

Second Semester:

Science 8 (2 of 2) examines physical science, such as physics and space science, and the history of science to highlight influential scientists.



## 2D MEDIA ARTWORK



Grades: 4-8

Prerequisite(s):  
None

[Course Intro Video Coming Soon!](#)

2D Media Artwork introduces concepts and methods used in the creation of digital art. The course explores design principles, common applications of digital artwork, and techniques for brainstorming and developing an artistic idea. Topics include artistic mediums such as digital photography, 2D computer graphics, web design, and digital illustration, relevant tools, techniques, and skills of each medium. Supporting topics include meaning, audience, impact, and ethics in the creation and use of digital media. Course projects include the creation of a digital photograph and a web page.

## 3D GRAPHICS AND VIDEO



Grades: 4-8

Prerequisite(s):  
None

[Course Intro Video Coming Soon!](#)

3D Graphics and Video explores digital art, how life relates to art, and how individual works of art are interpreted. Topics include design principles, types and common applications of digital artwork, and techniques for brainstorming and developing an artistic idea, artistic mediums (3D computer graphics, animation, digital video, and digital audio). Supporting topics include expression, purpose, meaning, ethics, testing, critique, improvement, presentation, and distribution in the creation and use of digital media. Course projects include the creation of a digital animation and a piece of digital audio.

## ART APPRECIATION



Grades: 6-8

Prerequisite(s):  
None

What makes an artwork a masterpiece? Why do artists create art? What is the difference between Rococo and Art Nouveau? In this course, students will discover the answers to these questions and more. We examine the elements of art and principles of design, and explore how artists have used these elements and principles in the creation of art for centuries.

# GRADES 6-8



## CAREER EXPLORATIONS



Grades: 6-8  
Prerequisite(s):  
None

Career Explorations (1 of 1) provides instruction and practice about various topics in the world of work. These topics include jobs, careers, labor markets, traditional and nontraditional occupational roles, ethical and unethical behavior, educational pathways to careers, budgeting, communication in the workplace, and technology in the workplace. There is a short project on problem-solving skills as well as a project on searching for a job, preparing a resume and cover letter, and interviewing for a job.

## CHARACTER EDUCATION



Grades: 6-12  
Prerequisite(s):  
None

[Course Intro Video](#)

Character Education (1 of 1) explores values of truthfulness, trustworthiness, responsibility, diligence, and integrity. The course offers specific, real world situations to interpret and connect to these traits to provide safe and appropriate ways to respond in real time. Topics included: identifying bullying, how to develop a bullying-prevention mindset.

## COMPUTER APPLICATIONS



Grades: 4-8  
Prerequisite(s):  
None

[Course Intro Video Coming Soon!](#)

*Available early December 2022!*



## DRAWING



Grades: 6-8  
Prerequisite(s):  
None

In Drawing, students will experiment with several different art materials and tools to see what each tool can do best. Students will explore ordinary things around them to become more observant of the structures and meanings of things which can be seen in your their home and community.

Your work will be your own study of the forms, textures, movements, and patterns of the things that you see every day.

Each project and each lesson is based on the one before it; so always do the lessons in the order they are given. Be sure to follow the directions exactly regarding which materials, sizes, and subject matter to use for each project. Each lesson will be a study of a new way of drawing. The examples given will show only the method and materials to be used, never the same subject or size as the project assigned. The examples are never to be copied. An example will only show one way of using the technique described.

By becoming more observant, by experimenting with new materials, and by exploring a variety of methods, students will continue to grow in artistic skill and enjoyment.

Beyond fundamental skills are various levels of creativity. Each lesson provides room for expressing the technical skill learned in a unique, creative way.

## GAMING UNLOCKED



Grades: 6-12  
Prerequisite(s):  
None  
[Course Intro Video](#)

Gaming Unlocked (1 of 1) researches the basics of gaming, from what makes games fun to what makes them work by exploring quality in a variety of games such as mental games, board games, and video games.

This course does *not* require students to know or learn a programming language. The emphasis is on the history and design of games and the different careers available in the gaming industry.

## INTRODUCTION TO CODING



Grades: 6-8  
Prerequisite(s):  
None

[Course Intro Video Coming Soon!](#)

Introduction to Coding (2 of 2) introduces the basic syntax and logic of writing in JavaScript. Topics include: the three types of data: strings, numbers, and Boolean, and their variables; performing operations on variables; basic operations are followed by logic operations and control structures. The course concludes with using procedures to simplify repeated code.

Grades: 6-8

Prerequisite(s):  
Introduction to Coding (1 of 2)



[Course Intro Video Coming Soon!](#)

Introduction to Coding (2 of 2) builds on the basic JavaScript concepts from Introduction to Coding (1 of 2) as it explores troubleshooting, testing, and debugging of programs. Topics include: the practices of different types of code documentation, as well as giving and receiving feedback from both users and other developers. The process of solving complex problems is modeled from beginning to end as problems are broken down into smaller pieces and addressed through planning, coding, and putting the pieces together to solve the larger problem.



## KEYBOARDING



Grades: 4-8

Prerequisite(s):  
None

[Course Intro Video Coming Soon!](#)

The keyboarding course is appropriate for elementary and middle school students. The curriculum introduces new keys by rows where students first learn the middle row, then the top row and the bottom row of the keyboard. The content is designed with a strong focus on sight and high frequency words. This course assumes no keyboarding experience and will guide them through the keyboard.

## MUSIC APPRECIATION



Grades: 6-8

Prerequisite(s):  
None

Students will gain a thorough understanding of music by studying the elements of music, musical instruments, and music history, as well as music advocacy. Students will be introduced to the orchestra and composers from around the world. They will be required to be a composer, performer, instrument inventor, and advocate.



## PHOTOGRAPHY BASICS



Grades: 6-12

Prerequisite(s):

None

[Course Intro Video](#)

Photography Basics (1 of 1) explores proper use of photography equipment, how to build a portfolio of work, and describes the steps to starting a career in this field. Topics included: the habits and etiquette of the profession.

*\*Photography equipment is not needed. Practice is offered through digital simulations.*

## SCRATCH CODING



Grades: 3-8

Prerequisite(s):

None

[Course Intro Video Coming Soon!](#)

Scratch Coding (1 of 1) introduces the basics and logic of programming language in Scratch. Topics include introducing and using the different tools in Scratch; creating programs that include loops, variables, lists, or conditionals; and identifying and fixing errors in a program. The course concludes with putting the tools and concepts altogether to create a larger program.

## MIDDLE SCHOOL HEALTH



Grades: 6-8

Prerequisite(s):  
None

[Course Intro Video](#)

Middle School Health (1 of 1) explores how behavioral choices, such as nutrition and physical activity, affect health, then provides information to make healthy choices. Topics included: nutrition and physical activity; growth, development, and sexual health; safety and injury prevention; alcohol, tobacco, and other drugs; mental, emotional, and social health; and personal and community health.

## PHYSICAL EDUCATION



Grades: 6-8

Prerequisite(s):  
None

[Course Intro Video](#)

Middle School Physical Education (1 of 1) explores the importance of physical activity. Topics include: sports and recreation, sportsmanship, leadership, and inclusivity, safety while being active, and developing lifelong healthy habits, such as daily activity.

## PHYSICAL EDUCATION - GRADE 6

Grades: 6

Prerequisite(s):  
None

Course Intro Video Coming Soon!

*Available early December 2022!*

## PHYSICAL EDUCATION - GRADE 7

Grades: 7

Prerequisite(s):  
None

Course Intro Video Coming Soon!

*Available early December 2022!*



## PHYSICAL EDUCATION - GRADE 8

*Available early December 2022!*

Grades: 8

Prerequisite(s):

None

Course Intro Video Coming Soon!

## SPANISH FOR YOUNG LEARNERS: GRADE 7

Grade: 7  
Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Spanish 7 (1 of 2) introduces the basics of the Spanish language by learning through reading, writing, listening, and speaking about personal interests and hobbies, asking for directions, and discovering the cultures of some Spanish-speaking countries, such as Mexico and Colombia.

Grade: 7  
Prerequisite(s):  
Spanish 7 First Semester

[Course Intro Video](#)

Second Semester:

Spanish 7 (2 of 2) explores how to discuss activities with friends, using vocabulary associated with restaurants, traveling, vacations, and exploring cultures of some Spanish-speaking countries, such as Argentina, Spain, and Peru.

## SPANISH FOR YOUNG LEARNERS: GRADE 8

Grade: 8  
Prerequisite(s):  
Spanish 7

[Course Intro Video](#)

First Semester:

Spanish 8 (1 of 2) explores how to discuss school subjects, various professions, and daily routines through practice reading, writing, listening, and speaking. The course also explores cultures of some Spanish-speaking countries, such as Venezuela and Chile.

Grade: 8  
Prerequisite(s):  
Spanish 8 First Semester

[Course Intro Video](#)

Second Semester:

Spanish 8 (2 of 2) explores how to discuss illness and injury, shopping, and money through reading, writing, listening, and speaking. The course also explores cultures of some Spanish-speaking countries, such as Ecuador, Guatemala, and Cuba.



## ENGLISH LANGUAGE ARTS - KINDERGARTEN

Grade: K  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Language Arts K (1 of 2) focuses on identifying and printing both upper and lowercase letters of the alphabet. Recognition of letters leads to letter-sound correspondence, identifying short vowel sounds, and producing rhyming words. The course examines different story elements and provides opportunities to identify and retell details of those elements. Story elements include characters, settings, and details for different types of texts such as storybooks, nursery rhymes, fairy tales, folktales, fables, and poems.

Grade: K  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Language Arts K (2 of 2) explores the fundamentals of language concepts for reading and writing. Identifying and blending sounds, recognizing the parts of words and sentences, and building reading comprehension skills are key elements of the course. Reading skills include describing the roles of the author and illustrator, explaining text structures, and asking and answering focused questions using contextual evidence. The course includes informational texts, historical texts, opinion texts, to read or listen to being read aloud as interactive storybooks. Writing skills include acquiring knowledge of the writing process in context of completing an informational writing project and a research writing project.

## ENGLISH LANGUAGE ARTS - GRADE 1

Grade: 1  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Language Arts 1 (1 of 2) focuses on phonics by immersing students in learning, isolating, segmenting, and pronouncing the sounds of consonants, consonant blends, digraphs, trigraphs, long and short vowels, vowel teams, diphthongs, r-controlled vowels, and inflectional endings primarily in single-syllable words. Students decode words in isolation and in context by pronouncing initial, medial vowel, and final phonemes. While learning sounds, students will read poetry, fables, folktales, fairy tales, stories, and informational texts with concepts such as retelling, topic, key details, characters, setting, events, and theme. Language focuses on nouns, pronouns, verbs, capitalization, end punctuation, and writing complete sentences

Grade: 1  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Language Arts 1 (2 of 2) focuses on acquisition of new words, experimenting with sounds and syllables, and accounting for the parts of a well-crafted sentence. Reading skills include asking and answering questions about texts, as well as drawing conclusions. Reading selections include poetry, fairy tales, informational texts, opinion texts. Writing includes an informational writing project and an opinion writing project.



## ENGLISH LANGUAGE ARTS - GRADE 2

Grade: 2  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Language Arts 2 (1 of 2) explores reading and writing literary texts from various genres, including conventional narratives, personal narratives, and poems. Reading selections include fables and folktales from diverse cultures, short stories, and a variety of poem types. Reading and writing topics demonstrate concepts such as character, setting, story structure, central message, point of view, dialogue, figurative and descriptive language, visual characteristics, and sound devices. Foundational language skills instruction provides guided and independent practice opportunities for decoding and spelling words and understanding their meaning using context clues, word relationships, and reference materials.

Grade: 2  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Language Arts 2 (2 of 2) includes a structured review of phonics to build reading skills. Reading selections include opinion texts, informational texts, and historical texts. Writing skills focus on editing and writing complete sentences and using correct conventions. Writing projects include an opinion writing project followed by a research writing project.

## ENGLISH LANGUAGE ARTS - GRADE 3

Grade: 3  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Language Arts 3 (1 of 2) explores reading and writing literary texts from various genres, including conventional narratives, personal narratives, and informational texts. Reading selections include folktales and fables from diverse cultures, short stories, narrative nonfiction, and informational texts. Reading and writing topics demonstrate concepts such as character, setting, story structure, central message, point of view, dialogue, and figurative and descriptive language. Foundational language skills instruction provides guided and independent practice opportunities for decoding and spelling words and understanding their meaning, using context clues, prefixes and suffixes, reading with accuracy, word relationships, and research materials.

Grade: 3  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Language Arts 3 (2 of 2) explores the elements of story, such as character and plot through reading selections that include drama, opinion text, and informational text. Writing projects include an opinion writing project and a poetry writing project.



## ENGLISH LANGUAGE ARTS - GRADE 4

Grade: 4  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Language Arts 4 (1 of 2) provides instruction and practice with informational and opinion text and with foundational language skills and vocabulary. Concepts and/or topics regarding informational and opinion text include key ideas, supporting details, author's purpose, text features and structure as well as summary and paraphrase. Additional tasks for opinion text include identifying the audience, the opinion or claim, and the reasoning and evidence. A research project provides instruction and practice on distinguishing paraphrase from plagiarism. The unique features of historical, scientific, technical, and informative texts are analyzed. Foundational language skills instruction includes guided and independent practice opportunities for recognizing and revising fragments and run-ons, using roots and affixes, and determining word meaning through context clues. Recognizing high frequency words, spelling grade-appropriate words correctly, and oral reading, as well as exploration of digital text and reference materials.

Grade: 4  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Language Arts 4 (2 of 2) explores literary works of fictional stories, dramas, and poetry. Reading analysis includes examining plot elements, theme, summary, grammar, point of view, perspective, and figurative language, as well as literary comparison of different types of texts. Writing projects include a personal narrative project.

## ENGLISH LANGUAGE ARTS - GRADE 5

Grade: 5  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Language Arts 5 (1 of 2) provides instruction and practice with informational and opinion text along with foundational language skills. Concepts and/or topics regarding informational and opinion text include key ideas, supporting details, author's purpose, author's perspective, text features and structure, inferences, evidence, summary, and paraphrase. Historical, scientific, and technical texts as well as digital texts are included for analysis. Foundational language concepts and/or topics include capitalization, punctuation, sentence types, parts of speech, verb tense, and context clues. Instruction and practice with spelling high frequency words and syllabication are included, as well. Writing projects include an informational essay and research project.

Grade: 5  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Language Arts 5 (2 of 2) explores the differences between literal language, such as determining word meaning from roots and affixes using reference materials, and figurative language, including the use of similes, metaphors, idioms, proverbs, and puns. Readings focus on plot, theme, point of view, and perspective. Reading selections include poetry, drama, folktales, and myths. Writing projects include a personal narrative project and multimedia presentations.



## FOUNDATIONS IN READING

Grades: 1-3

Prerequisite(s):  
None

Course Intro Video Coming Soon!

Foundations in Reading (1 of 2) reviews reading skills that build a strong foundation for effective reading. Topics include: a review of sounds in words by pronouncing initial, medial vowel, and final phonemes by segmenting and blending phonemes. The course begins with reading one-syllable words and moves onto multi-syllable words, practice decoding words in isolation and in the context of sentences, poems, stories, as well as informational texts. Reading fluency focuses on reading for accuracy, rate, expression, purpose, and understanding.

## MATHEMATICS - KINDERGARTEN

Grade: K  
Prerequisite(s):  
None  
[Course Intro Video](#)

### First Semester:

Mathematics Kindergarten (1 of 2) explores counting, counting objects, number sense, adding and subtracting through 5, geometric shapes, and measurement. The topics include counting to 40, counting up to 15 objects, modeling numbers with objects, using the number line, adding and subtracting within 5, identifying and sorting flat shapes, understanding which attributes are measurable, and identifying coins.

Grade: K  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Mathematics Kindergarten (2 of 2) explores number sense, counting and comparing numbers, adding and subtracting, geometric shapes, money, and data. The topics include counting to 100, adding and subtracting within 10 using different strategies, identifying groups of 10, ordering numbers on a number line, classifying objects and collecting data using picture graphs, identifying coins, and exploring three-dimensional shapes.

## MATHEMATICS - GRADE 1

Grade: 1  
Prerequisite(s):  
None

### First Semester:

Mathematics 1 (1 of 2) explores number sense and counting skills; operations such as addition and subtraction; measurement; geometry; and data collection. The topics include skip counting; composing and decomposing numbers; strategies for adding and subtracting; word problems; comparing and ordering lengths; identifying coins and their values; classifying two-dimensional shapes based on their attributes; understanding parts of a whole; and collecting data to create bar graphs and picture graphs.

Grade: 1  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Mathematics 1 (2 of 2) explores number sense and counting skills up to 120, operations such as addition and subtraction within 20, geometry, data collection, money, and telling time. The topics dig deeper into skip counting, finding place value, using strategies to fluently add and subtract within 10, solving addition and subtraction word problems within 20. Topics also include finding the value of a collection of coins, classifying three-dimensional shapes based on their attributes, comparing numbers, collecting data to create bar graphs and picture graphs, telling and writing time to the hour and half-hour.



## MATHEMATICS - GRADE 2

Grade: 2

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Mathematics 2 (1 of 2) explores fluently adding and subtracting within 100 using mental strategies; understanding addition and subtraction within 200 using concrete models or drawings and strategies; and applying these addition and subtracting skills in solving one- and multi-step real-world problems; reading and writing numbers up to 1,200 in different forms; counting numbers up to 1,200 in 1s, 5s, 10s, and 100s; plotting, comparing and ordering numbers up to 1,200; and finally building the foundation for multiplication and division by making equal groups of objects.

Grade: 2

Prerequisite(s):  
None

[Course Intro Video](#)

Second Semester:

Mathematics 2 (2 of 2) explores adding and subtracting within 1,000, measuring length, data, geometry, time, money, and economic concepts. The topics include regrouping place values to add and subtract within 1,000, measuring and comparing lengths with different units, adding and subtracting lengths, representing and interpreting data in bar graphs, picture graphs, and line plots. Topics also include recognizing the attributes of two-dimensional and three-dimensional shapes, telling and writing time to the nearest minute, adding and subtracting money, and explaining economic concepts such as the role of producers and consumers.

## MATHEMATICS - GRADE 3

Grade: 3

Prerequisite(s):  
None

[Course Intro Video](#)

First Semester:

Mathematics Grade 3 (1 of 2) explores number sense; place values; operations such as addition, subtraction, and multiplication; measurement; and representing data. The topics include exploring numbers up to 100,000; using place value to plot, compare, and order numbers; rounding to the nearest tens and hundreds; using different strategies to add and subtract numbers up to 1,000; multiplication; finding area and perimeter; finding volume in liters and mass in grams and kilograms; using measurement and other data to create scaled pictures and bar graphs; and using scaled pictures and bar graphs to gather information and compare data sets.

Grade: 3

Prerequisite(s):  
None

[Course Intro Video](#)

Second Semester:

Mathematics Grade 3 (2 of 2) explores arithmetic patterns, operations such as multiplication and division, geometry, fractions, perimeter, area, time, measurement, data, and finances. Topics include explaining arithmetic patterns using properties of operations, identifying types of geometric lines, composing and decomposing fractions, generating equivalent fractions, calculating the perimeter of polygons, and using multiplication to solve for area. Topics will also include, reading and writing time to the nearest minute, measuring length in customary units, measuring liquid volume, mass, and temperature, interpreting and representing data on a variety of graphs, and understanding concepts in personal finance.



## MATHEMATICS - GRADE 4

Grade: 4

Prerequisite(s):

None

[Course Intro Video](#)

First Semester:

Mathematics 4th Grade (1 of 2) addresses concepts related to place value, operations with whole numbers and decimals, and data. The instruction covers identifying and using place value for calculations and rounding whole numbers; adding, subtracting, multiplying, and dividing multi-digit whole numbers; adding and subtracting decimals; using operations to solve word problems; representing and interpreting data; and applying mathematical processes and understanding to solve word problems.

Grade: 4

Prerequisite(s):

None

[Course Intro Video](#)

Second Semester:

Mathematics Grade 4 (2 of 2) focuses on modeling and solving within a variety of topics. These topics include fractions, geometric shapes, angles, and measurement. It explores comparing fractions, converting fractions to decimals, representing fractions on a number line, adding and subtracting fractions and multiplying fractions. The instruction also focuses on identifying geometric shapes and angles and measuring time, length, weight, volume and applying these skills to real world scenarios and word problems.

## MATHEMATICS - GRADE 5

Grade: 5

Prerequisite(s):

None

[Course Intro Video](#)

First Semester:

Mathematics 5th Grade (1 of 2) addresses concepts related to place value, operations with multi-digit whole numbers, and operations with decimals. The instruction covers identifying and using place value for calculations and rounding decimals; multiplying and dividing multi-digit whole numbers by two-digit numbers; adding, subtracting, multiplying, and dividing decimals; and applying mathematical processes and understanding to solve word problems.

Grade: 5

Prerequisite(s):

None

[Course Intro Video](#)

Second Semester:

Mathematics Grade 5 (2 of 2) explores number sense, geometric principles, data analysis and patterns. Number sense topics include adding, subtracting, multiplying, and dividing fractions. Topics include describing and applying the order of operations to evaluate expressions and solve equations. Geometry topics include finding perimeter and area using two dimensional shapes and finding the volume of a three-dimensional figure. Data analysis includes exploring a variety of graphs and determining the mean, media, mode, and range. The utilizations of models and problem-solving skills repeat throughout this course to apply mathematical reasoning skills to real world scenarios.

## SOCIAL STUDIES - KINDERGARTEN

Grade: K  
 Prerequisite(s):  
 None  
 Course Intro Video Coming Soon!

### First Semester:

Social Studies Kindergarten (1 of 2) explores the roles and responsibilities of students as citizens within the context of civics, geography, economics, and history. Students will also learn about their own culture and how it impacts understanding of oneself and others as well as be introduced to aspects of our National culture.

Grade: K  
 Prerequisite(s):  
 None  
[Course Intro Video](#)

### Second Semester:

Social Studies Kindergarten (2 of 2) explores how to solve problems, the need for rules and laws, and how they help communities. Topics ask students to examine their place in the world and learn about the environment and what it is made up of. Lastly, it will explore American symbols, traditions, and holidays.

## SOCIAL STUDIES - GRADE 1

Grade: 1  
 Prerequisite(s):  
 None  
 Course Intro Video Coming Soon!

### First Semester:

Social Studies 1st Grade (1 of 2) examines how a community functions and how each member contributes to the community for the common good through the study of civics, geography, economics, and history. Students will study their local community and learn about characteristics that define urban, suburban, and rural communities. Democratic principles and participation in government are introduced. Community resources, environment, change over time, and cause/effect are examined.

Grade: 1  
 Prerequisite(s):  
 None  
[Course Intro Video](#)

### Second Semester:

Social Studies 1st Grade (2 of 2) examines the various features, symbols, holidays, leaders of the United States, as well as describing important people of the past. Activities include identifying national, state, and local government leaders and exploring how local government makes and enforces laws. The impact of resources and the environment are explored in terms of how humans live.





## SOCIAL STUDIES - GRADE 2

Grade: 2  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Social Studies 2nd Grade (1 of 2) explores the students' lenses expand to learn how their world is interconnected globally through the study of geography and economics. Students will develop a spatial understanding of the world around them, so they can understand how other cultures and civilizations are interconnected and have influenced who we are as a community, state, and Nation. United States history, world history, and civics will also be taught in a comparative context using various stories from the United States and around the world.

Grade: 2  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Social Studies 2nd Grade (2 of 2) examines who producers and consumers are, how the world economy works and what it entails, how the environment affects how humans live, and how humans affect the environment now and through history. Activities include researching how people and groups have protected the environment.

## SOCIAL STUDIES - GRADE 3

Grade: 3  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Social Studies 3rd Grade (1 of 2) explores the geography, history, politics, and economics at the local, state, national, and tribal levels. Students will learn about working together as a community, government services, physical and culture features of the North American region, resources, industry, and why people migrate within the United States and to the United States from other countries.

Grade: 3  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Social Studies 3rd Grade (2 of 2) explores how to use sources to learn about the First Peoples to construct a narrative of American Indian Nations. Explorations include topics of the Pueblo people, influential people and groups from some states. Activities include making an argument about the past based on reasoning, examples, and details from sources, as well as constructing a narrative of explorers and settlers in the Southwest United States to describe expansion into the West.



## SOCIAL STUDIES - GRADE 4

Grade: 4  
Prerequisite(s):  
None  
Course Intro Video Coming Soon!

### First Semester:

Social Studies 4th Grade (1 of 2) examines the earliest periods of America through the study of history, geography, economics, and history. The course includes a study of the settlement patterns, lifestyles, and governments of early American Indian societies. European exploration and settlement of North America, as well as interaction with American Indian groups are explored. Social studies skills are applied, and primary sources, maps, graphs, and timelines are used to analyze these periods of early American history.

Grade: 4  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Social Studies 4th Grade (2 of 2) explores the history, geography and economics associated with the original thirteen colonies of the United States, including topics regarding indentured servitude, culture mixing, and governments. Trade between Europe, Africa, and the Americas is analyzed to understand what was traded and the effects of these trades on the colonies. Finally, the New England Colonies, Middle Colonies, and Southern Colonies re-examined to understand the specific location, economy, government, religion, and culture for each area.

## SOCIAL STUDIES - GRADE 5

Grade: 5  
Prerequisite(s):  
None  
Course Intro Video Coming Soon!

### First Semester:

Social Studies 5th Grade (1 of 2) begins with a study of the causes and effects of the American Revolution, investigate how British taxation following the French and Indian War created the discontent that led colonists to declare independence, and then explores the causes of the drafting of the US Constitution. The articles of the Constitution, the powers of each branch of government, and the citizens' rights protected in the Bill of Rights are examined. Social studies skills are applied, and primary sources, maps, graphs, and timelines are used to analyze this period of United States history.

Grade: 5  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Social Studies 5th Grade (2 of 2) explores United States expansion, The Civil War, Reconstruction, Westward expansion, The Transcontinental Railroad, Economic and Urban Changes, and reform movements. Investigations include key historical events of the topics arranged chronologically, while also refining map skills, working with timelines and graphs, and analyzing causes and effects.

## SCIENCE - KINDERGARTEN

Grade: K  
Prerequisite(s):  
None  
Course Intro Video Coming Soon!

### First Semester:

Science K (1 of 2) examines basic scientific processes and methods. Those processes and methods are then used to identify the senses, classify matter, and describe energy, motion, and force. It also explores the engineering design process through designing a structure that will reduce the effects of the Sun on Earth.

Grade: K  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Science K (2 of 2) explores key characteristics of plants and animals, and how they work in various settings such as rain forests, deserts, rivers, and oceans. It also explores how plants and animals may change the environment in which they are found. It will explore the components that make up Earth and it will explore the various weather changes.

## SCIENCE - GRADE 1

Grade: 1  
Prerequisite(s):  
None  
Course Intro Video Coming Soon!

### First Semester:

Science 1 (1 of 2) investigates and applies the engineering design process to the concepts of light and sound. The course examines objects based on their properties of matter and compares different life cycles and organisms. Motion, forces, and the flow of energy are also described in the course.

Grade: 1  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Science 1 (2 of 2) explores how living things stay alive and how plants and animals survive, along with how plants and animals help solve human problems. It describes various objects in the sky such as the Sun, moon, and stars. Lastly, it will explain the changes in daylight in different seasons and weather and describe natural resources.



## SCIENCE - GRADE 2

Grade: 2  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Science 2 (1 of 2) digs deeper into the methods and tools scientists use. It explores the needs, life cycle, traits, and structures of plants and animals. That knowledge is then used to design a solution to a problem that will be tested and revised. Knowledge on matter, energy, motion, and forces is also gained through small experiments.

Grade: 2  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Science 2 (2 of 2) explores the structures of the human body, compares living things in different environments, and digs deeper into natural resources. Explorations include: the different types of landforms, bodies of water, and how to map both landforms and bodies of water. The course examines how changes are made to Earth's surfaces through weathering, erosion, earthquakes, volcanoes, hurricanes and floods. It digs deeper into the weather, seasons, and objects in the sky such as the Sun and moon.

## SCIENCE - GRADE 3

Grade: 3  
Prerequisite(s):  
None  
[Course Intro Video Coming Soon!](#)

### First Semester:

Science 3 (1 of 2) examines the states, properties, and changes that happen to matter. It also explores the forms of energy, investigates concepts of electricity and magnetism, and describes motion and forces. Knowledge of all these concepts lead to exploring the technological advancements that improve everyone's lives

Grade: 3  
Prerequisite(s):  
None  
[Course Intro Video](#)

### Second Semester:

Science 3 (2 of 2) investigates plants and animals, and how traits are passed from parent to offspring. It examines how plants are sorted into flowering and nonflowering categories. Animal characteristics are described and sorted into major groups based on key characteristics. Topics include climate and weather, our solar system, and natural resources.



## SCIENCE - GRADE 4

Grade: 4  
Prerequisite(s):  
None

[Course Intro Video Coming Soon!](#)

### First Semester:

Science 4 (1 of 2) examines the scientific method, solving problems through engineering, matter, energy and magnetism. It will also explore space including Earth's place and movement, as well as the different planets and objects in our solar system.

Grade: 4  
Prerequisite(s):  
None

[Course Intro Video](#)

### Second Semester:

Science 4 (2 of 2) examines plant and animal organisms, specifically their structures, functions, heredity, and adaptations, as well as their relationship to their environment. Finally, it explores planet Earth. Topics include rock formations, soil properties, fossil fuels, how the Earth's surface is shaped, Earth's features and systems, and how the Earth impacts humans.

## SCIENCE - GRADE 5

Grade: 5  
Prerequisite(s):  
None

[Course Intro Video Coming Soon!](#)

### First Semester:

Science 5 (1 of 2) identifies important scientific discoveries and the scientific method, describes the engineering design process, and explains different types of technology found in everyday life. It also examines matter, energy, forces, magnetism, and concludes with explaining astronomy and the solar system.

Grade: 5  
Prerequisite(s):  
None

[Course Intro Video](#)

### Second Semester:

Science 5 (2 of 2) investigates structures and functions of organisms, ecology and evolution, Earth's spheres, the geosphere, engineering and natural resources, and the Sun, Moon and Earth Systems. Activities include identifying plant and animal anatomy, explaining the flow of matter, describing climate change, evolution, weathering and erosion, seasons and the moon cycle, predicting, modeling, and observing across these topics to draw conclusions.

## 2D MEDIA ARTWORK



Grade: 4-8

Prerequisite(s):  
None

Course Intro Video Coming Soon!

2D Media Artwork introduces concepts and methods used in the creation of digital art. The course explores design principles, common applications of digital artwork, and techniques for brainstorming and developing an artistic idea. Topics include artistic mediums such as digital photography, 2D computer graphics, web design, and digital illustration, relevant tools, techniques, and skills of each medium. Supporting topics include meaning, audience, impact, and ethics in the creation and use of digital media. Course projects include the creation of a digital photograph and a web page.

## 3D GRAPHICS AND VIDEO



Grade: 4-8

Prerequisite(s):  
None

Course Intro Video Coming Soon!

3D Graphics and Video explores digital art, how life relates to art, and how individual works of art are interpreted. Topics include design principles, types and common applications of digital artwork, and techniques for brainstorming and developing an artistic idea, artistic mediums (3D computer graphics, animation, digital video, and digital audio). Supporting topics include expression, purpose, meaning, ethics, testing, critique, improvement, presentation, and distribution in the creation and use of digital media. Course projects include the creation of a digital animation and a piece of digital audio.

## ART - GRADE 1



Grade: 1

Prerequisite(s):  
None

Course Intro Video Coming Soon!

Art Grade 1 (1 of 1) explores the basic tools, elements, and principles of visual art. The course explores art forms such as drawing, painting, sculpture, and photography. Topics include lines, shapes, patterns, color, texture, balance, imagery, symbol, and subject matter. In addition to examining how visual art can represent a culture, the course explores why artworks and museums are important to the community. The course concludes with critiquing visual artworks and determining what gives art value.

## ART - GRADE 2



Grade: 2

Prerequisite(s):  
None

Course Intro Video Coming Soon!

Art Grade 2 (1 of 1) explores the tools, elements, and principles of visual art from different cultures. The course explores art forms such as drawing, sketching, architecture, painting, sculpture, photography, and textile art. Topics include lines, shapes, patterns, balance, movement, rhythm, mood, repetition, expression, emphasis, theme, and solving design issues. The course concludes with the importance of community art and how to repurpose objects to create something new.

## ART - GRADE 3



Grade: 3

Prerequisite(s):  
None

Course Intro Video Coming Soon!

Art Grade 3 (1 of 1) explores the tools, elements, and principles of visual art from different cultures. The course explores interpreting messages in art forms such as drawing, sketching, architecture, painting, illustration, sculpture, photography, and textile art. Topics include lines, shapes, patterns, balance, movement, rhythm, mood, repetition, expression, emphasis, theme, and solving design issues. The course projects and portfolio encourage evaluation of personal, professional, and community art.

## COMPUTER APPLICATIONS



Grades: 4-8

Prerequisite(s):  
None

Course Intro Video Coming Soon!

*Available early December 2022!*



## INTRODUCTION TO COMPUTERS AND TECHNOLOGY



Grades: 1-3

*Available early December 2022!*

Prerequisite(s):  
None

Course Intro Video Coming Soon!

## KEYBOARDING



Grades: 3-5

The keyboarding course is appropriate for elementary and middle school students. The curriculum introduces new keys by rows where students first learn the middle row, then the top row and the bottom row of the keyboard. The content is designed with a strong focus on sight and high frequency words. This course assumes no keyboarding experience and will guide them through the keyboard.

Prerequisite(s):  
None

Course Intro Video Coming Soon!

## SCRATCH CODING



Grades: 3-8

Scratch Coding (1 of 1) introduces the basics and logic of programming language in Scratch. Topics include introducing and using the different tools in Scratch; creating programs that include loops, variables, lists, or conditionals; and identifying and fixing errors in a program. The course concludes with putting the tools and concepts altogether to create a larger program.

Prerequisite(s):  
None

Course Intro Video Coming Soon!