

# K-5 Core Courses

Course Name	Subject	Vendor	Course Description
Kindergarten Language Arts A 5010041	Language Arts	AED	This Kindergarten Language Arts course will teach students to identify and write all letters, produce letter sounds and also frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core K LA standards are met in this course.
Kindergarten Language Arts B 5010041	Language Arts	AED	This Kindergarten Language Arts course will teach students to identify and write all letters, produce letter sounds and also frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core K LA standards are met in this course.
Kindergarten Math A 5012020	Math	AED	<p>During the first semester students will learn foundational math facts. They will learn to count to 12, how to compare sizes, ordinal numbers putting items in order, what a number line is and its uses, basic measurements such as inches and feet, and how to tell time on digital and analog clocks.</p> <p>Students will have many opportunities to practice these new concepts by interacting with online confirmation exercises and filling out worksheets off line.</p> <p>A special emphasis this semester is for students to have fun with numbers, finding success with concepts such as bigger and smaller and being comfortable in an online environment.</p>
Kindergarten Math B 5012020	Math	AED	<p>Students learn to count to twenty. They work with comparing objects using the terms tall, longer, and shorter as well as comparing two objects using the terms lighter and heavier. They will continue their exploration of basic geometric shapes such as cones and spheres. They will work with the concept of first, middle, and last.</p> <p>Arranging and sorting receive special emphasis this semester. Students will also work on writing numbers with 3, 4, and 5 given special attention. Students will learn the concepts of left and right. Coins are also a focus as students will count pennies, nickels and dimes. Finally, the number 7 is studied using the colors of the rainbow.</p> <p>Projects include making paper fingers and thumbs and creating designs with them. They will also make the numbers 1-10 out of dough.</p>
Kindergarten Science A 5020010	Science	AED	In Kindergarten Science, students in this course will use their senses to explore their world. Students experience nature walks, gardening, and imitative games by exploring varying concepts.
Kindergarten Science B 5020010	Science	AED	Students in this course will continue using their senses to explore their world. Students experience nature walks, gardening, and imitative games by exploring varying concepts.
Kindergarten Social Studies A 5021020	Social Studies	AED	<p>This course introduces students to their place in the community and the responsibilities of being a member of society. Great figures of U.S. history such as Pocahontas, George Washington and Abraham Lincoln are a focus of learning in this semester.</p> <p>Students will also learn about everyday heroes, the responsibilities of pet ownership, the importance of rules, table manners, and eating well.</p> <p>A skill that students will practice throughout the semester is retelling stories. Students may do this by recording audio, retelling the stories orally, or writing their observations. They will learn how to use details and basics of narratives.</p> <p>Projects will help students think about what pets need and defining emotions.</p>

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Kindergarten Social Studies B 5021020	Social Studies	AED	<p>In the second semester students are introduced to map reading skills. They will be taught to read maps of the U.S. and the world. From learning about location to how water is represented to floor plans, students are introduced to map skills that will last a lifetime.</p> <p>Students will also learn about symbols of the U.S. such as the American flag and the eagle. From there students learn about holidays with a particular focus on Thanksgiving.</p> <p>Another focus is on currency. They will be introduced to what money is, how money can be spent, the power of buying locally, and the difference between wants and needs.</p> <p>Projects will include a piece on distinguishing facts from fiction, buying locally, and focusing on the differences between needs and wants.</p>
1st Grade Language Arts A 5010042	Language Arts	AED	<p>This First Grade Language Arts course will teach students to identify and write all letters, produce letter sounds and also frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core 1 LA standards are met in this course.</p>
1st Grade Language Arts B 5010042	Language Arts	AED	<p>This First Grade Language Arts course will teach students to identify and write all letters, produce letter sounds and also frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core 1 LA standards are met in this course.</p>
1st Grade Math A 5012030	Math	AED	<p>During the first semester students will build fluency with basic math facts. They will learn to count to 100, basic addition and subtraction facts, and how to add double-digit numbers. Students will be introduced to such new concepts as word problems, Venn diagrams, and basic geometric concepts.</p> <p>There is an emphasis on learning practical skills such as reading thermometers, looking at maps, and understanding the value of coins.</p> <p>Students will have multiple opportunities to practice new skills and knowledge through using integrated online practice problems.</p>
1st Grade Math B 5012030	Math	AED	<p>During the second semester students will begin counting by twos, fives, and tens. They will learn both vertical addition and subtraction. Students are introduced to multiplication and division and the signs used in those operations. They will also study even and odd numbers.</p> <p>Students continue their exploration of geometric shapes through drawing and apply what they learn about shapes by sorting various figures in Venn diagrams. They will also use a balance beam to understand the concept of weight – lighter versus heavier.</p> <p>As in semester A, students will have multiple opportunities to practice new skills and knowledge through using integrated online practice problems.</p>
1st Grade Science A 5020020	Science	AED	<p>In First Grade Science, students in this course will complete projects that are designed to allow for exploration and discovery. Students observe their surroundings and through observations of the natural world conduct inquiries into topics related to their healthy development.</p>
1st Grade Science B 5020020	Science	AED	<p>Students in this course will complete projects that are designed to allow for exploration and discovery. Students observe their surroundings and through observations of the natural world conduct inquiries into topics related to their healthy development.</p>

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Course Name	Subject	Vendor	Course Description
1st Grade Social Studies A 5021030	Social Studies	AED	<p>In this semester, students begin to explore basic fundamentals of social studies including map skills, cardinal directions, and will begin to examine maps of the U.S. and the globe. Students will also be introduced to important figures from American history such as Pocahontas, George Washington, Abraham Lincoln, and Clara Barton.</p> <p>A skill that students will practice throughout the semester is retelling stories. Students may do this by recording audio, retelling the stories orally, or writing their observations. They will learn how to use details and basics of narratives.</p> <p>Students will also make maps of their homes, neighborhoods, as well as a personal timeline.</p>
1st Grade Social Studies B 5021030	Social Studies	AED	<p>The second semester has a focus on introductory economics. They will study bartering, goods and services, jobs in the community, and how the marketplace works.</p> <p>Another focus is on positive character traits such as honesty, what the aspects of personal responsibility are, and how to help and respect others.</p> <p>Historic figures such as Clara Barton and characters from fiction and folklore are used as models for teaching positive traits.</p> <p>Students will continue practicing their five finger retelling skill with assignments on Martin Alonso (a sailor with Columbus) and George Washington.</p> <p>Projects will help students think about thoughtful words, showing respect, and being honest. Learners will write, draw, and perform in these projects.</p>
2nd Grade Language Arts A 5010043	Language Arts	AED	<p>The 2nd Grade Language Arts course will teach students to spell and write vocabulary, read more fluently, apply grammar concepts, and participate in handwriting and writing activities through thematic units. Students will also continue to master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core 2 LA standards are met in this course.</p>
2nd Grade Language Arts B 5010043	Language Arts	AED	<p>The 2nd Grade Language Arts course will teach students to spell and write vocabulary, read more fluently, apply grammar concepts, and participate in handwriting and writing activities through thematic units. Students will also continue to master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core 2 LA standards are met in this course.</p>
2nd Grade Math A 5012040	Math	AED	<p>During the first semester students will build fluency with basic math facts and add and subtract within 100 to solve word problems using strategic methods. Students will also manipulate numbers to 1000 using knowledge of hundreds, tens, and ones. Lastly, students will demonstrate arrays with repeated addition.</p>
2nd Grade Math B 5012040	Math	AED	<p>During the second semester students will use place value to add and subtract within 1000. They will use place value to estimate and solve word problems to demonstrate skills. Students will measure and compare length and represent it on a number line. They will work with money and time to compare value. Students will collect data and represented on graphs to discuss it. Lastly, they will recognize common 2 dimensional and 3 dimensional shapes by specific characteristics.</p>

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Course Name	Subject	Vendor	Course Description
2nd Grade Science A 5020030	Science	AED	Second Grade Science introduces students to the process of observation and how important it is to the study of science. Learners will identify their five senses and why they are critical to observation. Students will use these observation skills throughout the course as they examine many different types of animals and their environments. Students begin by observing ants in their own environments and continue onto learning the different types of birds. Students will come to understand plant and animal rhythms and will perform small experiments with plants. Stories will be used to teach the students about nature and interactions that humans have with nature. They will continue to learn about animals and their characteristics habitats, and needs. Students will learn through video, audio stories, hands-on participation and observation with nature. The teachers will conduct live assessments for the topics that had been covered throughout the week's lessons. Grade 2 Science provides students with the opportunity to expand their minds and see for themselves the way that animals and nature are a part of their everyday lives.
2nd Grade Science B 5020030	Science	AED	Semester B of Second Grade Science begins with the students learning the characteristics of the Weaverbird and Swiftlet bird. Learners will come to understand the different groupings of animals including those with vertebrates, invertebrates and warm and cold blooded animals, carnivores, herbivores and omnivores. Learners will be asked to recall the five senses that they discussed at the beginning of the course and compare them to the senses of animals. They will also learn how animals communicate and the relationship between animals and humans. The course ends with the students taking a closer look at the characteristics of reptiles, insects, birds of prey, and fish. At the close of the course students will have a deeper understanding and appreciation of animals and their habitats.
2nd Grade Social Studies A 5021040	Social Studies	AED	In second grade, students in this course will begin to explore the basic fundamentals of social studies including culture, geography, and economics. Students will explore the Ancient Cultures of China, Africa, and the Celts. Students will explore these cultures through ancient folk tales and fables. Learners will create a photo book that describes the significant events in their own life. They will also examine the importance of geography and direction. Students will learn how to locate boundaries while using a world map. Students will identify the places that were discussed in the previous lessons including Africa, China, and the British Isles. They will develop a rudimentary understanding of map symbols as they locate continents, the equator, and oceans. Students will also learn to identify on a road map where they live, rivers, mountain ranges and lakes nearby their homes. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.
2nd Grade Social Studies B 5021040	Social Studies	AED	The second semester begins by introducing learners to economics and the role that money plays in every civilization. They will take a closer look at the economy of the Celtic people. Students learn the difference between natural, human, and capital resources. Learners will begin to understand the exchange of money for goods and services. They will gain a basic understanding of what scarcity is and why it is good that we do not always get everything that we want. Students will understand these concepts by drawing upon their understanding of the desires/wishes in their own lives. Students will also learn about desirable human qualities through the use of fables such as "The Boy Who Cried Wolf." Learners will look at individuals who have made a difference in the greater community. Students will learn about Rosa Parks and Susan B. Anthony through short stories. The end of the course asks learners to examine the diversity of the community they live in. They will be asked to recognize the different types of people around them. Students should gain an appreciation for the differences around them and how having respect for others and being honest will contribute to society as a whole. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.

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Course Name	Subject	Vendor	Course Description
3rd Grade Language Arts A 5010044	Language Arts	AED	During the first semester students will continue to build their vocabulary through the study of folktales, fables, myths, informational text, dramas, poems, and stories. They will recount stories and ask and answer questions to demonstrate their knowledge of text. They will compare and contract themes, setting and plots and distinguish their own point of view from that of the author of the text. Students will also gain information from illustrations and describe logical connections between sentence and paragraphs. They will also be introduced to writing in cursive.
			During the second semester students will continue to apply phonics and grammar concepts with a focus on special vowel sounds, prefixes, and suffixes. Students will continue to build writing skills by responding to reading and utilizing a broadened vocabulary in authentic writing activities where they compare and contrast stories and use process writing to compose original work. They will read with accuracy and fluency to support comprehension as they solidify their understanding within context of the stories they read. By the end of the year, our third-grade student will read and comprehend informational texts, including history/social studies, science, and technical texts independently and proficiently. Students will report on a topic using descriptive details and speaking clearly and in complete sentences.
3rd Grade Language Arts B 5010044	Language Arts	AED	During the first semester students will continue to build their vocabulary through the study of folktales, fables, myths, informational text, dramas, poems, and stories. They will recount stories and ask and answer questions to demonstrate their knowledge of text. They will compare and contract themes, setting and plots and distinguish their own point of view from that of the author of the text. Students will also gain information from illustrations and describe logical connections between sentence and paragraphs. They will also be introduced to writing in cursive.
			During the second semester students will continue to apply phonics and grammar concepts with a focus on special vowel sounds, prefixes, and suffixes. Students will continue to build writing skills by responding to reading and utilizing a broadened vocabulary in authentic writing activities where they compare and contrast stories and use process writing to compose original work. They will read with accuracy and fluency to support comprehension as they solidify their understanding within context of the stories they read. By the end of the year, our third-grade student will read and comprehend informational texts, including history/social studies, science, and technical texts independently and proficiently. Students will report on a topic using descriptive details and speaking clearly and in complete sentences.
3rd Grade Math A 5012050	Math	AED	During the first semester, students will build flexibility with numbers as they master addition and subtraction facts as well as multiplication and division facts. Students will understand relationships between addition and subtraction, multiplication and addition and multiplication and division as they learn to borrow, carry, and regroup in order to find sums and differences of two whole numbers up to 10,000. Students will also comprehend the place value of base ten numbers up to 1,000,000 in order to find patterns and make estimations. Lastly, they will implement a 4-step approach to solving problems and express numbers differently including translating them into Roman Numerals or expressing them as ordinal numbers.
3rd Grade Math A 5012050	Math	AED	During the second semester, students will explore concepts of measurement including linear measurement, weight, volume, temperature, and time. They will also recognize, compare, and convert fractions. Students will write amounts of money and make change using as few coins as possible. Lastly, students will examine lines, polygons, and solid figures as they are introduced to basic concepts of geometry.

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Course Name	Subject	Vendor	Course Description
3rd Grade Science A 5020040	Science	AED	Third grade science introduces students to experimentation as they journey through the earth and its many miracles. They will begin by learning about the earth, the sun and the moon. By participating in simple experiments students will explore the water cycle, gravity, the weather and it's patterns, various types of terrain, and the role of plants in the production of oxygen and their importance to human survival. Learners will expand their knowledge through video, pictures, short readings, projects, and hands on experiments. Learners will understand that experiments require the use of instruments, observation, recording, and drawing evidence based conclusions. Grade 3 science provides students with the opportunity to expand their minds and see for themselves the way that science is a part of their everyday lives.
3rd Grade Science B 5020040	Science	AED	Semester B of third grade science begins with the students writing a poem about the seasonal cycles. The learners continue with root formation, the interdependence of plants and humans, biomes of land and sea, extreme weather, rocks, vertebrates and invertebrates, as well as extinction. All of these lessons are taught using video, projects, and experimentation. Semester B asks learners to look a bit deeper into things they encounter such as the ocean and weather.
3rd Grade Social Studies A 5021050	Social Studies	AED	In third grade, social studies students will begin to explore the basic fundamentals of social studies including geography, civics, and economics. Learners will begin by looking at the beginning of civilization and examining the ancient Hebrew civilization, the Phoenicians, and the Kush tribe of ancient Africa. They will then move on to examining the Native American tribes of the Cherokee, Sioux, and Hopi. Students will also look at the first explorers of the Americas and learn about the beginning of the United States. In the first semester students will learn important geographical factors in the ancient civilizations, Native American tribes and in the developing United States. Students will increase their skills by creating maps and looking at the landscapes. They will take a close look at their own personal heritage by mapping their ancestry. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.
3rd Grade Social Studies B 5021050	Social Studies	AED	The second semester begins with introducing learners to economics and the role that money plays in every civilization. Students learn the difference between natural, human, and capital resources. They also examine the production of goods, trade, specialization, and interdependence, and come to understand the importance that each individual plays in a society's economy. Learners are introduced to Civics by discussing the governmental structure of the Ancient Hebrews and Phoenicians. The purpose and importance of laws and how they are enacted as well as the establishment of government are shown through stories of the Ancient Phoenicians and Native Americans. The course ends by discussing the purpose and nature of government as it relates to the United States.
4th Grade Language Art A 5010045	Language Arts	AED	The 4th grade Language Arts curriculum integrates reading, writing, speaking, listening, and the study of vocabulary and grammar in a way that engages today's learners and supports them in building a broad and diverse set of literacy skills. Students study classic literature as well as more contemporary forms, including media and multimedia products. Writing assignments in semester A focus on narrative and persuasive modes and emphasize the use of reasoning and details to support opinions. Each writing assignment spans several lessons and guides students through a writing process that begins with prewriting and ends by emphasizing one or more aspects of conventions of standard written English. Students also learn how to participate in collaborative discussion and peer review sessions. In each lesson, engaging and relevant models and step-by-step instruction guide students toward mastery and appreciation of 21st century communication in all its forms and functions.

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Course Name	Subject	Vendor	Course Description
4th Grade Language Art B	Language Arts	AED	Like semester A, semester B provides an integrated curriculum. Whereas the first semester focuses on skills needed to read fiction and other literary prose, semester B teaches specific skills for reading poetry, drama, informational text. In the second semester of the course, students learn how informational text differs from literary text and how different forms of information text differ from each other. Writing assignments emphasize expository writing and guide students through research projects. Near the end of the semester, students learn how to present information orally and using multimedia.
4th Grade Math A 5012060	Math	AED	Grade 4 math uses a varied amount of instructional material to reinforce and teach new math skills to the 4th grade learners. Instruction includes creative videos, mathematical storytelling, practical math applications and repetition to reinforce skills throughout the course. Three areas are focused on and students will finish the course with a strong knowledge in these content areas. The first is developing an understanding and fluency with multi-digit multiplication, and developing the understanding of dividing to find quotients involving multi-digit dividends. The second is developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions with whole numbers. The third will be addressed in semester B.
4th Grade Math B 5012060	Math	AED	Grade 4 math uses a varied amount of instructional material to reinforce and teach new math skills to the 4th grade learners. Instruction includes creative videos, mathematical storytelling, practical math applications and repetition to reinforce skills throughout the course. Three areas are focused on and students will finish the course with a strong knowledge in these content areas. The first is developing an understanding and fluency with multi-digit multiplication, and developing the understanding of dividing to find quotients involving multi-digit dividends. The second is developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions with whole numbers. The third will be addressed in semester B.
4th Grade Science A 5020050	Science	AED	Grade 4 Science includes the three main domains of science which are physical, life, and earth and space science. Learners will use various kinds of experimenting, including field studies, systematic observations, models, and controlled experiences. The course begins with the explanation of the scientific method which the students continue to use and build upon throughout the course. The big picture of the earth is examined as students review the life on planet earth, salt and fresh water, and fast and slow changes that occur on the planet. Students go beyond planet earth, though, as they study galaxies, the solar system and other planets. Students examine the ways that forces and motion can be measured and the concept that a single kind of matter can exist as a solid, liquid or gas. Grade 4 science uses many modes of instruction including video presentations, enrichment activities, and hands-on experimentation.
4th Grade Science B 5020050	Science	AED	Semester B of Grade 4 Science focuses on the relationship between heat, light, sound, and electrical energy and the way they can be transferred between each other. Learners distinguish between natural objects and objects made by humans as they examine technology and the role it plays in science. Students also look at life cycles of animals, plants, and humans and how they interact with each other. The course ends by looking at the ways that humans interact with the environment. Students will use research skills, watch videos, and get their hands dirty as they complete projects that require them to dig through dirt and trash in order to learn broader lessons that have to do with helping the environment.
4th Grade Social Studies A 5021060	Social Studies	AED	In Semester A of Social Studies 4, students will explore the early development of the United States. Students will explore the early Native Americans and interactions with early European Settlers and the establishment of the American colonies and early American government. Students will learn about important documents in the founding of the United States and the establishment of rules and laws that has led to the formation of the federal and state governments as we know them today. Students will have the opportunity to explore their own state government and learn more about the rules and regulations that govern where they live.

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Course Name	Subject	Vendor	Course Description
4th Grade Social Studies B 5021060	Social Studies	AED	<p>In Semester B of Social Studies 4, students will expand on their learning from Semester B, and work their way through American History to post-WWII and science and inventions that started shaping the modern-day United States.</p> <p>Various concepts including economics, the environment, and American geography will be explored to give students a better idea of all the facets that shape American lives today.</p>
5th Grade Language Arts A 5010046	Language Arts	AED	<p>The 5th grade Language Arts curriculum integrates reading, writing, speaking, listening, and the study of vocabulary and grammar in a way that engages today's learners and supports them in building a broad and diverse set of literacy skills. Students study classic literature as well as more contemporary forms, including media and multimedia products. Writing assignments in semester A focus on narrative and persuasive modes and emphasize the use of reasoning and details to support opinions. Each writing assignment spans several lessons and guides students through a writing process that begins with prewriting and ends by emphasizing one or more aspects of conventions of standard written English. Students also learn how to participate in collaborative discussion and peer review sessions. In each lesson, engaging and relevant models and step-by-step instruction guide students toward mastery and appreciation of 21st century communication in all its forms and functions.</p>
5th Grade Language Arts B 5010046	Language Arts	AED	<p>Like semester A, semester B provides an integrated curriculum. Whereas the first semester focuses on skills needed to literary text, semester B focuses on skills for reading and analyzing informational text. In the second semester of the course, students learn how informational text differs from literary text and how different forms of information text differ from each other. Writing assignments emphasize expository writing and guide students through research projects. Near the end of the semester, students learn how to present information orally and using multimedia.</p>
5th Grade Math A 5012070	Math	AED	<p>Semester B of grade 4 math has learners continuing to work with fractions. They will learn to multiply fractions and convert them to decimals. Students will also begin to learn to equivalent measurements of length, weight, mass, and capacity. They will also learn helpful skills in understanding time, distance, and money. Students will develop an understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry. Lessons on rectangles, line plots, angles, figure drawing, polygons, and symmetry will be taught. Semester B continues to use varied forms of instruction that allow students to learn these skills in a practical manner.</p>
5th Grade Math B 5012070	Math	AED	<p>Students will learn math topics outlined in this course drawing from a variety of sources, including hands-on activities, interactive lessons, and practical math applications. Students will focus on several critical areas including but not limited to developing fluency with addition, subtraction, multiplication, and division of fractions. They will also learn to extend division to 2-digit divisors, integrate decimal fractions into the place value system, and increase an understanding of operations with decimals to hundredths. They will develop a fluency with whole numbers and decimal operations. The semester begins with operations and expressions, moves into decimals and money, and ends with more work on fractions. Learners will gain valuable skills as they carry out activities that model real life situations like grocery shopping throughout the semester.</p>

# K-5 Core Courses

Course Name	Subject	Vendor	Course Description
5th Grade Science A 5020060	Science	AED	Grade 5 Science continues to build on the science skills that have been obtained in years previous. There will be an emphasis on earth and space science, life science, and physical science. Students will begin the course by focusing on earth and space science by looking at the solar system and planets. Students will come to an understanding of the concept of the earth as a sphere and the earth's place in the solar system. The course continues with a focus on physical science and the different tools that can measure force, time, and distance. They will also grow in their understanding of how light and sound travel and interact with each other as well as the different types of energy. The semester concludes with a look into life science and the ways that organisms are interconnected. Instruction will include real life application, hands-on projects and assessments, and video and short research projects.
5th Grade Science B 5020060	Science	AED	Semester B puts great emphasis on life science and begins by focusing on the many ecosystems of the earth and the way that all parts of ecosystems depend on each other. Students will learn the different types of ecosystems that exist. They will learn that ecosystems change and how the changes affect their ability to support their populations. Learners will examine plants; that they have different structures and how those structures allow them to respond to different needs. Students will also grow in their understanding of the importance of good nutrition to all living organisms. The course concludes with a look into the scientific process and the importance of investigations and conclusions in the study of science. Instruction will include real life application, hands-on projects and assessments, and video and short research projects.
5th Grade Social Studies A 5021070	Social Studies	AED	Grade 5 Social Studies combines the study of United States History through the Civil War with a geographical exploration of the United States and what it has to offer. Students will use their understanding of social studies skills and concepts as they study the development of the United States. The first semester begins with early settlements of North America and allows learners to take an in-depth look into what life was like for colonists and Native Americans. Students will come to understand the causes of the Revolutionary War and the people that played a significant role in it. The semester ends with students examining the new nation and what life was like for European immigrants and those on the frontier. Students will learn through the use of video, journaling, and varied types of creative instruction.
5th Grade Social Studies B 5021070	Social Studies	AED	Semester B begins with an exploration of the west and what life was like for those looking to find gold. Learners will then look at slavery and what led to the Civil War. The course then takes a departure from American history and takes a more in-depth look into cultures, people, and the geography of the United States from past to present. Learners will have the opportunity to explore the country region by region and come to appreciate all that it has to offer. Students will conclude the course by planning and describing a trip they would like to take to a particular place within the 50 United States. Students will take a hands-on approach as they get to know the geography, climate and culture of their country. Video, creative projects involving technology, journaling, and varied assessments will be used throughout the course.

# K-5 Elective Courses

Course Name	Subject	Vendor	Course Description
Kindergarten Health 5008020	Physical Education	AED	Elementary Health K-1 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.
Kindergarten Physical Education 5015020	Physical Education	AED	Elementary PE K-1 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components, and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity
1st Grade Health 5008030	Physical Education	AED	Elementary Health K-1 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.
1st Grade Physical Education 5015030	Physical Education	AED	Elementary PE K-1 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components, and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity
2nd Grade Health 5008040	Physical Education	AED	Elementary Health 2-3 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation.
2nd Grade Physical Education 5015040	Physical Education	AED	Elementary PE 2-3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.
3rd Grade Health 5008050	Physical Education	AED	Elementary Health 2-3 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation.
3rd Grade Physical Education 5015050	Physical Education	AED	Elementary PE 2-3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.
4th Grade Health 5008060	Physical Education	AED	Elementary Health 4-5 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, reducing illness, avoiding bullying, nutrition, healthy friendships, emergency situations, and the human body. Fourth grade will study the functioning systems of the body. Fifth grade will be covering the reproductive system, puberty and STDs.

# K-5 Elective Courses

Course Name	Subject	Vendor	Course Description
4th Grade Physical Education 5015060	Physical Education	AED	Elementary PE 4-5 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.
5th Grade Health 5008070	Physical Education	AED	Elementary Health 4-5 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, reducing illness, avoiding bullying, nutrition, healthy friendships, emergency situations, and the human body. Fourth grade will study the functioning systems of the body. Fifth grade will be covering the reproductive system, puberty and STDs.
5th Grade Physical Education 5015070	Physical Education	AED	Elementary PE 4-5 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.
Introductory Spanish 5007020	Foreign Language	FLVS	<p>Join Juanito and Rosalinda on a trip to explore the sights, sounds, and traditions of Mexico. In this course, students will be introduced to the Spanish language and culture through vocabulary, songs, stories, videos, and more. Along the journey, students will meet the famous Mexican artist Frida Kahlo and learn the story of Araña Pequeñita. They will also record and listen to themselves speaking new words in Spanish.</p> <p>Florida Virtual School's Elementary offers a suite of Elementary Spanish courses. These courses are based on proficiency level rather than grade level. The majority of our students (even those that speak Spanish at home) find it is most beneficial in the student learning process to begin at the introductory level to ensure a smooth transition of content. Each level of Spanish builds on the previous level and is set in a new and exciting Spanish speaking country.</p>
Level 1 Spanish 5007020	Foreign Language	FLVS	<p>Join Juanito and Rosalinda on a trip to explore the sights, sounds, and traditions of Mexico. In this course, students will be introduced to the Spanish language and culture through vocabulary, songs, stories, videos, and more. Along the journey, students will meet the famous Mexican artist Frida Kahlo and learn the story of Araña Pequeñita. They will also record and listen to themselves speaking new words in Spanish.</p> <p>Florida Virtual School's Elementary offers a suite of Elementary Spanish courses. These courses are based on proficiency level rather than grade level. The majority of our students (even those that speak Spanish at home) find it is most beneficial in the student learning process to begin at the introductory level to ensure a smooth transition of content. Each level of Spanish builds on the previous level and is set in a new and exciting Spanish speaking country.</p>
Level 2 Spanish 5007020	Foreign Language	FLVS	<p>Join Juanito and Rosalinda on a trip to explore the sights, sounds, and traditions of Mexico. In this course, students will be introduced to the Spanish language and culture through vocabulary, songs, stories, videos, and more. Along the journey, students will meet the famous Mexican artist Frida Kahlo and learn the story of Araña Pequeñita. They will also record and listen to themselves speaking new words in Spanish.</p> <p>Florida Virtual School's Elementary offers a suite of Elementary Spanish courses. These courses are based on proficiency level rather than grade level. The majority of our students (even those that speak Spanish at home) find it is most beneficial in the student learning process to begin at the introductory level to ensure a smooth transition of content. Each level of Spanish builds on the previous level and is set in a new and exciting Spanish speaking country.</p>

# K-5 Elective Courses

Course Name	Subject	Vendor	Course Description
Level 3 Spanish 5007020	Foreign Language	FLVS	<p>Join Juanito and Rosalinda on a trip to explore the sights, sounds, and traditions of Mexico. In this course, students will be introduced to the Spanish language and culture through vocabulary, songs, stories, videos, and more. Along the journey, students will meet the famous Mexican artist Frida Kahlo and learn the story of Araña Pequeñita. They will also record and listen to themselves speaking new words in Spanish.</p> <p>Florida Virtual School's Elementary offers a suite of Elementary Spanish courses. These courses are based on proficiency level rather than grade level. The majority of our students (even those that speak Spanish at home) find it is most beneficial in the student learning process to begin at the introductory level to ensure a smooth transition of content. Each level of Spanish builds on the previous level and is set in a new and exciting Spanish speaking country.</p>
Level 4 Spanish 5007020	Foreign Language	FLVS	<p>Join Juanito and Rosalinda on a trip to explore the sights, sounds, and traditions of Mexico. In this course, students will be introduced to the Spanish language and culture through vocabulary, songs, stories, videos, and more. Along the journey, students will meet the famous Mexican artist Frida Kahlo and learn the story of Araña Pequeñita. They will also record and listen to themselves speaking new words in Spanish.</p> <p>Florida Virtual School's Elementary offers a suite of Elementary Spanish courses. These courses are based on proficiency level rather than grade level. The majority of our students (even those that speak Spanish at home) find it is most beneficial in the student learning process to begin at the introductory level to ensure a smooth transition of content. Each level of Spanish builds on the previous level and is set in a new and exciting Spanish speaking country.</p>
Art Level 1 5001020	Visual Arts	AED	<p>The importance of fine arts is a benefit, not just to the older student and population, but is a necessary area of development for the young student who will benefit with it in all areas of education. Art provides an opportunity for children to develop the use of their senses directly and encourages the student to further develop what they already know as a source of knowledge and creativity. It is important for the student to make a connection between the verbal and visual; logic and emotions; imagination and reality. Art offers the student an opportunity to express feelings and emotions in their drawings and with color. The fine art program promotes self-esteem and self-awareness as it enhances personal fulfillment. Children have a wonderful imagination that, if encouraged, will be needed throughout their life. This program provides an opportunity for self-discipline through instruction and cooperation while providing the student with an opportunity for self-expression by using imaginative thinking for creative solutions. Again, this is a necessity in lifetime experiences. The student will see the artistic expressions and inventions from cultures around the world that are part of the history of mankind and development. Modern media provides many opportunities to the student. However, the student has the benefit to experience it more closely in art classes. Repetition, important for young children, is evident in these lessons. Repetition is provided at different age levels while using various tools and mediums. Home, family and friends, pets, and toys are the young student's world. The student will begin with their personal world as they think they know it, and discover so much more about it. These lessons provide a deeper awareness of the world immediately around them, and eventually their journey will grow from there. Each student is an individual with unique ideas and talents. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which we live.</p>

# K-5 Elective Courses

Course Name	Subject	Vendor	Course Description
<p style="text-align: center;">Art Level 2 5001030</p>	<p style="text-align: center;">Visual Arts</p>	<p style="text-align: center;">AED</p>	<p>The importance of fine arts is a benefit, not just to the older student and population, but is a necessary area of development for the young student who will benefit with it in all areas of education. Art provides an opportunity for children to develop the use of their senses directly and encourages the student to further develop what they already know as a source of knowledge and creativity.</p> <p>It is important for the student to make a connection between the verbal and visual; logic and emotions; imagination and reality. Art offers the student an opportunity to express feelings and emotions in their drawings and with color. The fine art program promotes self-esteem and self-awareness as it enhances personal fulfillment. Children have a wonderful imagination that, if encouraged, will be needed though out their life. This program provides an opportunity for self-discipline through instruction and cooperation while providing the student with an opportunity for self-expression by using imaginative thinking for creative solutions. Again, this is a necessity in lifetime experiences.</p> <p>The student will see the artistic expressions and inventions from cultures around the world that are part of the history of mankind and development. Modern media provides many opportunities to the student. However, the student has the benefit to experience it more closely in art classes.</p> <p>Repetition, important for young children, is evident in these lessons. Repetition is provided at different age levels while using various tools and mediums.</p> <p>Home, family and friends, pets, and toys are the young student's world. The student will begin with their personal world as they think they know it, and discover so much more about it. These lessons provide a deeper awareness of the world immediately around them, and eventually their journey will grow from there.</p> <p>Each student is an individual with unique ideas and talents. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which we live.</p>
<p style="text-align: center;">Art Level 3 5001040</p>	<p style="text-align: center;">Visual Arts</p>	<p style="text-align: center;">AED</p>	<p>The Art program provides an opportunity for children to develop the use of their senses directly and encourages the student to further develop their personal source of knowledge and creativity. Art offers the student the opportunity to experience a connection between the verbal and visual; logic and emotions; imagination and reality. The student is guided and encouraged to express feelings and emotions in their drawings and with color while promoting self-esteem and self-awareness in personal fulfillment. The imagination in children is encouraged in art. However, it will assist them in their other studies as well. This program provides an opportunity for self-discipline through instruction and cooperation while providing the student with an opportunity for self-expression by using imaginative thinking for creative solutions. The student is introduced to some of the artistic expressions and techniques from cultures around the world. Modern technology provides opportunities for the student to observe this history. The art student will use some of these elements themselves in their own artwork. Repetition, important for children, is provided at different age levels while using various tools and mediums. Home, family, traditions, friends, pets, and toys are the young student's world. The student will explore what they know of their world. These lessons provide a deeper awareness of the world immediately around them where their journey is just beginning. As an individual each student is gifted with unique talents and ideas. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which they live.</p>

## K-5 Elective Courses

Course Name	Subject	Vendor	Course Description
<p style="text-align: center;">Art Level 4 5001050</p>	<p style="text-align: center;">Visual Arts</p>	<p style="text-align: center;">AED</p>	<p>The Art program provides an opportunity for children to develop the use of their senses directly and encourages the student to further develop their personal source of knowledge and creativity. Art offers the student the opportunity to experience a connection between the verbal and visual; logic and emotions; imagination and reality. The student is guided and encouraged to express feelings and emotions in their drawings and with color while promoting self-esteem and self-awareness in personal fulfillment. The imagination in children is encouraged in art. However, it will assist them in their other studies as well. This program provides an opportunity for self-discipline through instruction and cooperation while providing the student with an opportunity for self-expression by using imaginative thinking for creative solutions. The student is introduced to some of the artistic expressions and techniques from cultures around the world. Modern technology provides opportunities for the student to observe this history. The art student will use some of these elements themselves in their own artwork. Repetition, important for children, is provided at different age levels while using various tools and mediums. Home, family, traditions, friends, pets, and toys are the young student's world. The student will explore what they know of their world. These lessons provide a deeper awareness of the world immediately around them where their journey is just beginning. As an individual each student is gifted with unique talents and ideas. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which they live.</p>

## 6-8 Core Courses

Course Name	Subject	Vendor	Course Description
6th Grade Language Arts A 1001010	Language Arts	SM	<p>Students analyze informational texts, including biographies, primary documents, instructional documents, film reviews, and persuasive letters. Reading selections include the novel <i>The Road</i> 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.</p> <p>*Also available in Honors.</p>
6th Grade Language Arts B 1001010	Language Arts	SM	<p>Students explore literary texts from various genres, including novels, short stories, poems, and plays. Readings include <i>The Wonderful Wizard of Oz</i> by L. Frank Baum, excerpts from <i>Little Women</i> and <i>The Adventures of Tom Sawyer</i>, and poetry by Robert Louis Stevenson, Robert Frost, and Carl Sandburg, as well as multimedia readings of several videos of famous poems to demonstrate explicit and implicit information, theme, characters, plot, poetic techniques, and figurative language.</p> <p>*Also available in Honors.</p>
6th Grade Math A 1205010	Math	SM	<p>Students build 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 include: statistics, ratios, unit conversions, geometry, writing and evaluating expressions with variables and exponents, and working with equations.</p> <p>*Also available in Honors.</p>
6th Grade Math B 1205010	Math	SM	<p>Students build on concepts such as positive and negative integers and fractions to learn about rational numbers and how to compare them. Topics include: 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.</p> <p>*Also available in Honors.</p>
6th Grade Science A 2002040	Science	SM	<p>Students investigate 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 include: cells, the hierarchy of organization, covering tissues, organs, and organ systems.</p>
6th Grade Science B 2002040	Science	SM	<p>Students explore topics through many creative and interactive assets, including virtual labs and review games to immerse themselves in 21st-century online learning. Topics include: 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.</p>
6th Grade Social Studies A 2109010	Social Studies	SM	<p>Students explore the 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.</p>
6th Grade Social Studies B 2109010	Social Studies	SM	<p>Students explore 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.</p>

# 6-8 Core Courses

Course Name	Subject	Vendor	Course Description
7th Grade Language Arts A 1001040	Language Arts	SM	Students explore 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 <i>The Story of My Life</i> 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.  *Also available in Honors.
7th Grade Language Arts B 1001040	Language Arts	SM	Students analyze literary texts from novels, short stories, fairy tales, poems, and plays. Readings include <i>Alice's Adventures in Wonderland</i> by Lewis Carroll, excerpts from <i>Black Beauty</i> , 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.  *Also available in Honors.
7th Grade Math A 1205040	Math	SM	Students explore adding and multiplying rational numbers by using number lines, rules, and properties. Topics include 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 learn about populations and samples. Geometry topics include solving problems involving scale drawings, circles, and angle relationships.  *Also available in Honors.
7th Grade Math B 1205040	Math	SM	Students explore subtracting and dividing rational numbers by using different methods to perform four operations. Topics include: 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.  *Also available in Honors.
7th Grade Science A 2002070	Science	SM	Students examine 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.
7th Grade Science B 2002070	Science	SM	Students investigate concepts from ecology and geology to explore the interactions between and among organisms in an ecosystem. Topics 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.
7th Grade Social Studies A 2106010	Social Studies	SM	Students explore the social, cultural, and technological developments occurring concurrently in Europe, Africa, and Asia in the years AD 500-1789. They also examine how archaeologists and historians uncover the past.
7th Grade Social Studies B 2106010	Social Studies	SM	Students explore 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 include: 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.

## 6-8 Core Courses

Course Name	Subject	Vendor	Course Description
8th Grade Language Arts A 1001070	Language Arts	SM	Students explore 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.  *Also available in Honors.
8th Grade Language Arts B 1001070	Language Arts	SM	Students explore 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.  *Also available in Honors.
8th Grade Math A 1205070	Math	SM	Students explore rational and irrational numbers, solving linear equations from contextual situations, and 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.  *Also available in Honors.
8th Grade Math B 1205070	Math	SM	Students explore 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.  *Also available in Honors.
8th Grade Science A 2002100	Science	SM	Students examine life science concepts from biology, ecology, environmental sciences, and explores scientific process to investigate the questions of ecology and genetic technology.
8th Grade Science B 2002100	Science	SM	Students examine physical science, such as physics and space science, and the history of science to highlight influential scientists.
8th Grade Social Studies A 2100010	Social Studies	SM	Students explore early American history from pre-Columbian era and closely examine 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.
8th Grade Social Studies B 2100010	Social Studies	SM	Students explore westward expansion, early Spanish missions in western North America through to Reconstruction, the Second Industrial Revolution, and connect these events to how policies and cultures are shaped. Topics include: 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

## 6-8 Elective Courses

Course Name	Subject	Vendor	Course Description	Material Requirements
MS Career Explorations 2 1700060	Life Skills	EDL	Imagine that it's 20 years from now. What career do you see yourself in? What do you imagine that you'll be doing? In this course, you'll explore more careers and what it takes to succeed in different fields. You'll learn more about what steps are needed to prepare for your career and how to compare the pros and cons of different career choices to find one that's best for you.	
MS Exploring Music 1301090	Performing Arts	EDL	What comes to mind when you hear the word 'music'? Do you think about your favorite band or artist? In this course, you'll learn about how we hear music; how music affects our lives; essential elements of music like rhythm, pitch, and harmony; different musical genres; singing and your voice; various instruments; music composition; and the history and culture of music over the years.	
MS Health 0800040	Physical Education	SM	This course explores how behavioral choices, such as nutrition and physical activity, affect health, then provides information to make healthy choices. Topics include: 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.	
MS Photography 1A 0102040	Visual Arts	EDL	Photographs are all around us, and each helps to tell a story. Now it's time for you to create your story through photos you learn how to take in this course. Learn the basics of using a camera, lighting, and how to choose great subjects to create magazine-worthy photos and amaze your friends and family with your skills.	Digital camera or smartphone with apps
MS Photography 1B 0102040	Visual Arts	EDL	Do you have vacation photos or pics of your pet that need a little editing? How about getting ready to add that new selfie you took to your social media platform? Taking photos is an art, and editing photos is a skill that many photographers seek to master. Explore how to manipulate angles and lighting, the purpose for different types of photo files, how to use different software to edit photos, and safe places you can store them. You'll be well on your way to being an editing guru when you're done with this course.	Digital camera or smartphone with apps
Fitness - Grade 6 1508000	Physical Education	FLVS	You will explore health and fitness topics with a crew of virtual characters. Among them is Coach Cardio, who will help measure your increasing fitness level as you learn to keep your body physically fit. This course provides middle school elective credit. Please check with your school district regarding middle school physical education requirements.	
Comprehensive PE - Grade 7 1508060	Physical Education	FLVS	You will reach new levels of fitness in this course through sports, dance, aquatics, and more. A friendly cast of course characters will guide you through exercising safely, activities that target different areas of your body, and reaching new goals. This course provides middle school elective credit. Please check with your school district regarding middle school physical education requirements.	
Comprehensive PE - Grade 8 1508070	Physical Education	FLVS	This course is designed for 7th and 8th grade students and is intended to be 18 weeks in length. The purpose of this course is to build on previously acquired knowledge, skills, and values necessary for the implementation and maintenance of a physically active lifestyle. The course content provides exposure to a variety of movement opportunities and experiences which include, but is not limited to: Outdoor Pursuits/Aquatics, Individual/Dual Sports and Alternative/Extreme Sports. The integration of fitness concepts throughout the content is critical to student success in this course and in the development of a healthy and physically active lifestyle.	

# 9-12 Core Courses

Course Name	Subject	Vendor	Course Description
Algebra I A 1200310	Math	SM	Students explore 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.
Algebra I B 1200310	Math	SM	Students explore 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 2 A 1200330	Math	SM	Students explore solving quadratic equations with complex solutions and perform 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.
Algebra 2 B 1200330	Math	SM	Students explore 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, and tangent functions, and explore key features to prove and apply trigonometric identities.
American Government 2106310	Social Studies	SM	Students explore reading, writing, and analysis using both informational and literary texts, as well as comparison of texts in different mediums. Readings include <i>The Princess and the Goblin</i> 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.
Biology A 2000310	Science	SM	Students explore reading, writing, and analysis using both informational and literary texts. Readings include <i>Anthem</i> 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
Biology B 2000310	Science	SM	Students examine 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
Chemistry A 2003340	Science	SM	Students explore reading, writing, and analysis of literary texts from around the world and across history. Readings include <i>Antigone</i> 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
Chemistry B 2003340	Science	SM	Students examine 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.

## 9-12 Core Courses

Course Name	Subject	Vendor	Course Description
Economics 2102310	Social Studies	SM	Students explore reading, writing, and analysis using both informational and literary texts. Readings include poetry and drama, such as <i>The Crucible</i> 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 9A 1001310	Language Arts	SM	Students examine 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.
English 9B 1001310	Language Arts	SM	Students examine 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.
English 10 A 1001340	Language Arts	SM	Students explore 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
English 10 B 1001340	Language Arts	SM	Students analyze 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 11 A 1001370	Language Arts	SM	Students examine 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.
English 11 B 1001370	Language Arts	SM	Students examine the basics of genetics, natural selection, and ecology; model how matter and energy flow through ecosystems, and the technology used to see the larger context and implications. Topics include: biological research topics of ethical guidelines in new biotechnology.
English 12 A 1001400	Language Arts	SM	Students explore writing formal proofs and constructing geometric figures. Topics include: 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.
English 12 B 1001400	Language Arts	SM	Students explore writing formal proofs and constructing geometric figures. Topics include: 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.
Environmental Science A 2001340	Science	SM	Students examine science as a whole and the course leads to how methods and tools provide scientists meaningful results. Topics include: 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.
Environmental Science B 2001340	Science	SM	Students explore physics, are introduced to 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.

## 9-12 Core Courses

Course Name	Subject	Vendor	Course Description
Geometry A 1206310	Math	SM	Students examine the relationships between organisms and the environment, including impacts of research on scientific thought and the environment by using scientific practices, evidencebased data and its display, as well understanding how data informs societal decision-making.
Geometry B 1206310	Math	SM	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.
Physical Science A 2003310	Science	SM	Students explore European exploration and the impact Europeans had on the lives of those native to North America. Topics include: 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.
Physical Science B 2003310	Science	SM	Students trace pivotal events in American history and presidential administrations as the 21st century dawns. Topic include: 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.
US History A 2100310	Social Studies	SM	Students explore 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 include: The Crusades, feudalism, the plague, Asian empires and trade routes, effects of the Renaissance and Protestant Reformation, and important revolutions that shaped history
US History B 2100310	Social Studies	SM	Students trace 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 A 2109310	Social Studies	SM	Students examine the history and philosophy of the United States government and the guiding principles of democracy. Topics include: 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.
World History B 2109310	Social Studies	SM	Students explore principles to make informed decisions about personal finance, develop a broader understanding of national and international economic decisions and policies. Topics include: why economics impacts history, distribution of wealth, and quality of life for all members of society.

## 9-12 Elective Courses

Course Name	Subject	Vendor	Course Description	Material Requirements
American Sign Language 1A 0717300	Foreign Language	EDL	Did you know that American Sign Language (ASL) is the third most commonly used language in North America? Learn introductory vocabulary and simple sentences so that you can start communicating right away. Importantly, explore Deaf culture – social beliefs, traditions, history, values, and communities influenced by deafness.	
American Sign Language 1B 0717300	Foreign Language	EDL	The predominant sign language of Deaf communities in the United States, American Sign Language, is complex and robust. Discover more of this language and its grammatical structures through expanding your vocabulary with acquiring hundreds of new signs. Additionally, explore interesting topics like Deaf education and Deaf arts and culture, and learn about careers where you can use your ASL skills.	
Anatomy and Physiology 1A 2000350	Science	EDL	Whether you plan on pursuing a career in health sciences or simply looking to gain an understanding of how the human body works, you'll first need to understand the relationship between anatomy and physiology. Learn how to read your body's story through understanding cell structure and their processes, and discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems.	
Anatomy and Physiology 1B 2000350	Science	EDL	Examine the form and function of even more body systems. Learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. And discover the importance of accurate patient documentation as well as the technology used in the industry.	
Art History Origins 0100310	Visual Arts	SM	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 in World Cultures 0100320	Visual Arts	EDL	Art tells a story. Go on a journey of when humans began creating art in prehistoric times to ancient Roman, early Christian, and Medieval periods. Explore the artistic characteristics of the Renaissance, Americas, Baroque, Romantic, and more. Learn the elements and design principles of art, and about some of the greatest artists in the world, while creating your own art, both on paper and digitally. It's time to tell your story through art.	
Chinese 1 071130	Foreign Language	FLVS	Learn conversation elements in Mandarin Chinese, including greetings, introductions, and the exchange of basic information with others using authentic materials. This course provides elective credit.	
Chinese 2 0711310	Foreign Language	FLVS	Develop your communication skills at a more advanced level, including listening, speaking, reading, and writing in Mandarin Chinese using authentic materials. This course provides elective credit.	
Chinese 3 0711320	Foreign Language	FLVS	Learn more about Chinese culture, including the origins, anecdotes, and etiquette for various cultural settings, using authentic materials. You will also compare and contrast the Chinese culture with your own as you continue to build knowledge of vocabulary, sentence structure, and grammar. This course provides elective credit.	
Computer Basics 0200305	Computer Skills	AED	In this course you will learn how to use productivity and collaboration tools, such as G Suite by Google Cloud to create word processing documents, spreadsheets, surveys and forms such as personal budgets and invitations.	
Entrepreneurship 8812110	Business	SM	Entrepreneurship 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	
Digital Media Fundamentals 1A 0108370	Visual Arts	EDL	Discover your talent for building digital media applications using text, graphics, animations, sounds, videos, and more! Learn about the elements that make impressive media, such as typography, color theory, design, and manipulation. Explore careers to apply your digital media skills and find your place in this fast-paced and exciting field!	

# 9-12 Elective Courses

Course Name	Subject	Vendor	Course Description	Material Requirements
Digital Media Fundamentals 1B 0108370	Visual Arts	EDL	Let's polish your digital media skills and help you learn all about web design. Incorporate your creative ideas into websites and discover the basics of marketing to understand how your work can be used effectively. You'll also explore the world of podcasts and audio editing to construct a solid foundation from which you can pursue a career in this exciting field.	
Digital Media Web Design 2A 0108380	Visual Arts	EDL	Did you know that you are consuming digital media every time you open an app or use your computer or tablet? Digital media may be a webpage, video, image, podcast, form, or more. Explore how you can develop webpages that embed different media and interactivity for excellent user experience through programming languages such as HTML and CSS. Examine trends and opportunities, education requirements, student organizations, and industry certification options. It's your turn to start designing websites and experiences for digital media consumers.	
Digital Media Web Design 2B 0108380	Visual Arts	EDL	Think of the best online stores you've visited. What do you think makes them unique? How do they keep buyers engaged and purchasing? Before you can design a great eCommerce store, it's essential to understand how one works. Learn the trends, design principles, and security strategies. Explore what it means to adhere to ethical and legal requirements and complying with industry standards and accessibility. It's time to start designing the next best eCommerce site!	
Digital Photography 1A 107440	Visual Arts	EDL	Have you wondered how professional photographers manage to capture that perfect image? Gain a better understanding of photography by exploring camera functions and the elements of composition while putting theory into practice by taking your own spectacular shots! Learn how to display your work for exhibitions and develop skills important for a career as a photographer.	Manual, digital or smartphone camera
Digital Photography 1B 107440	Visual Arts	EDL	Let's further develop your photography skills by learning more professional tips, tricks, and techniques to elevate your images. Explore various photographic styles, themes, genres, and artistic approaches. Learn more about photojournalism and how to bring your photos to life, and using this knowledge, build a portfolio of your work to pursue a career in this field!	Manual, digital or smartphone camera
French 1 0701320	Foreign Language	FLVS	Learn how to introduce yourself and others, share your interests, and talk about the weather, all in the language of Molière. Explore the rich culture of France including historical sites, foods, and sports through interactive activities, written practice, and speaking and listening exercises. This course provides elective credit.	
French 2 0701330	Foreign Language	FLVS	Expand your listening, speaking, reading, and writing skills in French through interactive videos, dialogues, and self-checks. Grow your vocabulary and learn to discuss activities in the past, future, and conditional tenses. Explore the francophone world and the influence France has had across the globe. This course provides elective credit.	
Health 0800310	Physical Education	SM	This course explores how behavioral choices, such as nutrition and physical activity, affect health, then provides information to make healthy choices. Topics include: 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.	
Health Science Foundations 1A 8417110	Physical Education	EDL	Health science careers are not only in high demand, but they offer a diverse range of careers for all types of people interested in helping others. Acquire foundational knowledge required to pursue a career in the healthcare industry, and the education, training, and credentials needed to attain them. Learn basic medical terminology, principles of anatomy and physiology, and legal and ethical responsibilities. Explore communication, teamwork, and leadership techniques – providing a solid basis for those wanting to advance through the health sciences.	
Health Science Foundations 1B 8417110	Physical Education	EDL	Making sure that you, your patients, and your colleagues stay safe, you'll begin analyzing your responsibilities for ensuring patient and personal safety with special attention paid to emergency procedures. Examine infection control, first-aid, CPR, and measuring a patient's vitals. Learn about numerical data, such as systems of measurement, medical math, and reading and interpreting charts. And examine effective teamwork and leadership characteristics while building your employment skills.	
Music Appreciation 1300300	Performing Arts	EDL	Have you ever heard a music piece that made you want to get up and dance, sing, or even cry? Regardless of the genre, music moves us. Explore the elements and pieces of music. And learn through the historical context, musicians and composers, and influence of music from the Middle Ages to the 21st century, on how to listen and really hear the different music that makes up our world.	

# 9-12 Elective Courses

Course Name	Subject	Vendor	Course Description	Material Requirements
Principles of Information Technology 1A 9003510	Computer Skills	EDL	Ready to develop your understanding and proficiency in computers? Explore a range of concepts to gain the foundational knowledge you'll need to start exploring careers in this field to find out which ones suit your interests and abilities. Learn about computer hardware and maintenance to data management and storage options to network systems, administration, and troubleshooting. Then dive into word processing, spreadsheets, and databases to cement your knowledge of information technology!	
Principles of Information Technology 1B 9003510	Computer Skills	EDL	Take the IT knowledge you have to a more advanced level. Starting with an overview of programming, algorithms, and compilers, you'll then learn the basics of web page design and creating graphics. Explore security and cybercrime, emerging technologies, presentation software, and intellectual property laws. Finally, you will prepare for the future by discovering various careers in this field and planning your education!	
Journalism 1A 8203000	Language Arts	EDL	Does your curiosity lead you to the heart of the matter? Channel this curiosity into developing strong writing, critical thinking, and research skills to perform interviews and write influential pieces, such as articles and blog posts. Learn about the evolution of journalism and its ethics, bias, and career directions to forge your path in this field.	
Journalism 1B 8203000	Language Arts	EDL	Journalists are asked to tell the world a story every single day—and their job is, to tell the truth. Learn how to choose a topic, structure your story, research facts, hone your observational skills, and write an article following journalism tradition. Go beyond the print world and discover how journalism can lead to exciting careers that will put you right in the action.	
Physical Education A-High School 1501300/1501310	Physical Education	SM	Students examine the importance of physical activity, personal fitness, and healthy eating habits. Topics include: useful techniques and different aspects of sport and recreation, a personal fitness evaluation, the design of a personal exercise plan and tracking of results.	
Physical Education B-High School 1501300/1501310	Physical Education	SM	Students explore key concepts that lead to improved fitness, wellness, and overall health. Topics include: 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.	
Theatre, Cinema and Film Production 1A 0400660	Performing Arts	EDL	Lights! Camera! Action! Theater and cinema are both forms of art that tell a story. Let's explore the enchanting world of live theater and its fascinating relationship to the silver screen. Explore the different genres of both and how to develop the script for stage and film. Then dive into how to bring the script to life with acting and directing. If you have a passion for the art of film and stage, let's bring your creativity to life!	Students need access to films; we suggest sending home permission slips to ensure students are watching appropriate content: <a href="https://forms.gle/iMnc1wGz6WcmKEGJ8">https://forms.gle/iMnc1wGz6WcmKEGJ8</a>
Theatre, Cinema and Film Production 1B 0400660	Performing Arts	EDL	Lights, camera, action ... take two! Whether you're a performer, critic, or fan, you'll pull back the curtain to dive deeper into the making of movies and theater performances. Explore multiple facets of the production process from both theater and film. Gain insights from industry leaders along the way and learn to think critically about different aspects to develop your unit-by-unit blog. You'll fully understand how high-quality entertainment and art are crafted for the theater and the silver screen.	
Spanish 1 0708340	Foreign Language	FLVS	Immerse yourself in the beauty of the Spanish language and the richness of its diverse cultures. Learn basic grammar and vocabulary skills to help build your fluency and language proficiency. Explore the culture of Spanish-speaking countries and apply what you learn through written practice, listening, and speaking exercises. This course provides elective credit.	
Spanish 2 0708350	Foreign Language	FLVS	Strengthen your Spanish listening, speaking, reading, and writing skills while experiencing the beauty and expressiveness of a language that is shared by different people and cultures throughout the world using authentic materials. This course provides elective credit.	

## 9-12 Elective Courses

Course Name	Subject	Vendor	Course Description	Material Requirements
Spanish 3 0708360	Foreign Language	FLVS	Immerse yourself in this interactive course that explores the tastes, sights, and sounds of the Hispanic cultures. Experience and reflect on the triumphs, struggles, and celebrations of their dynamic peoples. During this journey, you will improve your language fluency, vocabulary, and writing skills through authentic researched-based projects. We invite you to take your Spanish language abilities to the next level!	

# 9-12 Advanced Placement Courses

Course Name	Subject	Vendor	Course Description	Material Requirements
AP Art History A/B 0100300	Social Studies	FLVS	Within AP Art History, you will explore the interconnections between art, culture, and historical context through the critical lenses of artistic expression, cultural awareness, and purpose. This course provides elective credit and fulfills a performing/fine art requirement for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	
AP Biology A/B 2000340	Science	FLVS	This course provides a foundation for developing an understanding for biological concepts through scientific inquiry, investigations, interactive experiences, higher-order thinking, real-world applications, writing analytical essays, statistical analysis, interpreting and collecting data. This course fulfills one required science credit for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	*Campbell Biology In Focus 3rd Edition AP Edition for Advanced Placement Author(s): Urry, Lisa   Cain, Michael   Wasserman, Steven   Minorsky, Peter Textbook ISBN-13: 9780135214763 ; student provided lab materials
AP Calculus AB A/B 1202310	Math	FLVS	Study limits, continuity, differentiation, integration, differential equations, and the applications of derivatives and integrals. This course fulfills one required math credit for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	Study Forge; calculator
AP Calculus BC A/B 1202320	Math	FLVS	Comparable to college and university calculus, this course will help prepare you for the Calculus BC Advanced Placement exam. Study limits, continuity, differentiation, integration, differential equations, and the applications of derivatives and integrals, parametric and polar equations, and infinite sequences and series. This course fulfills one required math credit for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	Study Forge; calculator
AP Chemistry A/B 2003370	Science	AED	This course is taught at the college level and is designed to prepare students to take the Advanced Placement Examination and to 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 Chemistry Course Description. These include an introduction to chemistry as the study of change, gases, thermochemistry, quantum theory, chemical bonding, crystals, phase changes, solutions, chemical kinetics, chemical equilibrium, acids and bases, entropy, electrochemistry, nuclear chemistry, metallurgy, alkali and alkaline metals, nonmetallic metals, transition metals, organic chemistry, and synthetic and natural organic polymers.	*AP Chemistry Chong – Raymond Chang, Kenneth Goldsby – 12th Edition, 2016 ISBN-13: 978-0076727704 ISBN-10: 007672770X Cracking the AP Chemistry Exam, 2020 Edition ISBN-13: 978-0525568186 ISBN-10: 0525568182 Advanced Microchem Kit (AP Chemistry Lab Kit by Quality Science Labs)*
AP Computer Science A 0200320	Science	FLVS	Develop the skills required to write programs or parts of programs to correctly solve specific problems. You will learn design techniques to make programs understandable, adaptable, and reusable. This course provides elective credit. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	
AP English Language and Composition A/B 1001420	Language Arts	FLVS	This course provides high school students with college-level instruction in analyzing and writing various texts. The course covers topics in language and rhetoric as well as expository and persuasive writing. Students become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. This course fulfills one required English credit for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	
AP English Literature A/B 1001430	Language Arts	FLVS	This course provides college-level instruction in active, close reading and analysis of imaginative literature. Through the close reading of carefully selected works of literary merit, students learn to consider how a work's style, figurative language, theme, and other literary elements contribute to its cultural significance. This course meets one required English credit for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	Students must select novels from a list

## 9-12 Advanced Placement Courses

Course Name	Subject	Vendor	Course Description	Material Requirements
AP Environmental Science A/B 2001380	Science	FLVS	This course provides students with a global view of their world and their role in it. It examines the scientific principles and concepts required to understand the interrelationships between ocean, land, and atmosphere that guide the natural world and allow Earth to be a planet suitable for life. This course fulfills one required science credit for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	
AP Government and Politics A/B 2106420	Social Studies	FLVS	Research the roles of the media, political parties, interest groups, states, candidates, bureaucracy, and the public in the governmental process. You will experience the production of policy building in multiple economic and social settings. This course fulfills the United States Government requirement for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for half-credit courses at the end of January.	We the People
AP Human Geography 2103400	Social Studies	FLVS	Explore the patterns and processes that impact the way humans understand, use, and change Earth's surface. Geographic models, methods, and tools help you examine the effect that human social organization and interconnections have on our world. This course provides elective credit. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	
AP Macroeconomics 2102370	Math	FLVS	Understand the choices you make as a producer, consumer, investor, and tax-payer. This course provides you with the knowledge and decision-making tools necessary for understanding how a society must organize its limited resources to satisfy its unlimited wants. This course fulfills the Economics with Financial Literacy requirement for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for half-credit courses at the end of January.	
AP Microeconomics 2102360	Math	FLVS	Explore the power of marginal thinking and apply it to common decisions that individuals and business firms encounter each day. Examine, interpret, analyze, and model key microeconomics concepts and processes, from the shifting supply and demand for familiar products to the model of the labor market and how wages are determined. This course meets the Economics high school graduation requirement. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for half-credit courses at the end of January.	
AP Psychology A/B 2107350	Science	FLVS	Immerse yourself in the scientific study of human behavior and cognition. In this college-level course, you will learn important terms, concepts, and phenomena associated with each major area of psychology and enhance your critical thinking skills. This course provides elective credit only. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	"Myers, David G. and Nathan DeWall. Myers' Psychology for AP Course. 3rd edition. 2018. New York: Worth.   "
AP Spanish A/B 0708400	Foreign Language	AED	Our online AP Spanish Language and Culture course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical and communicative skills. The AP Spanish Language and Culture course prepares students for the College Board's AP Spanish Language and Culture exam. It uses as its foundation the three modes of communication (Interpersonal, Interpretive and Presentational) as defined in the Standards for Foreign Language Learning in the 21st Century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish.	Cracking the AP Spanish Language & Culture Exam with Audio CD, 2020 Edition ISBN-13: 978-0525568346 ISBN-10: 0525568344
AP Statistics A/B 1210320	Math	FLVS	This course will introduce students to exploring data, sampling and experimentation by planning and conducting studies, anticipating patterns using probability and simulation, and using statistical inference to analyze data and draw conclusions. This course fulfills one required math credit for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	
AP US History A/B 2100330	Social Studies	FLVS	Examine key themes and events of our history, including American identity, diversity, religion, culture, war, and slavery, as well as economic, political, and demographic changes. You will also analyze globalization and environmental issues. This course fulfills the United States History requirement for high school graduation. To help allow for course completion prior to the AP exams in May, FLVS closes enrollment for full-credit courses at the end of September.	Give Me Liberty

## 9-12 Advanced Placement Courses

Course Name	Subject	Vendor	Course Description	Material Requirements
AP World History A/B 2109420	Social Studies	AED	<p>The first semester of AP World History Modern delves into the history of mankind. Looking back to the prehistoric times, students will develop the connections between the early river valleys, the beginnings of civilizations, and governments. Through this semester, students will be introduced to concepts that will be placed on the AP examination, and will also be given multiple opportunities to practice skills necessary for the AP exam. This specific time will start from the First Agricultural Revolution to the Age of Exploration.</p> <p>The second semester of AP World History Modern is a continuation of semester one, starting with how Europe evolved from the colonies being brought into the New World. This course will continue to make connections between nations and look at the big picture concepts of the world until present day. This semester will also spend one time preparing specifically for the AP exam. Through review materials and practicing skills needed for the AP exam, students will work on being prepared for the exam.</p>	