3 **ELEMENTARY SCHOOL**

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9 Science
10 History and Social Sciences
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16 **MIDDLE SCHOOL**

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27 **HIGH SCHOOL**

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MUSIC

K12 is pleased to offer new music courses for grades K-5. The new courses provide exceptional instruction for key concepts and objectives in music as well as music theory. The new courses have performance pieces and a wealth of resources for students and teachers.

NEW!

LANGUAGE ARTS

Course materials will be available in various formats, which may include physical and/or digital materials.

LANGUAGE ARTS BLUE (K)

In this course, students receive structured lessons on readiness skills through emphasis on phonics, language skills, literature, and handwriting to help develop comprehension, build vocabulary, and promote a lifelong interest in reading.

- **Phonics**: PhonicsWorks prepares students to become independent readers through systematic, multisensory instruction in phonemic awareness and decoding skills, using a kit of magnetized letter tiles and a variety of games and activities.
- **Literature and Comprehension**: Plenty of read-aloud literature kindles the imagination while building comprehension and vocabulary. The emphasis is on classic literature—fairy tales, fables, and folktales—including many works that embody exemplary virtues.
- **Language Skills**: Traditional poems, nursery rhymes, and riddles help students develop comprehension, vocabulary, and a love of language. Offline vocabulary instruction is accompanied by online review and practice. “All About Me” lays the foundations of the writing process as students brainstorm, discuss, illustrate, write, and share ideas with others.
- **Handwriting**: Handwriting Without Tears provides gentle instruction to help students print letters correctly.

**Curriculum Items**: K12 Language Arts Blue Lesson Guide and Activity Book; K12 PhonicsWorks Basic Kit; K12 PhonicsWorks Lesson Guide, Activity Book, and Assessment Book; K12 Read Aloud Treasury, The Rooster Crows—A Book of American Rhymes and Jingles by Maud and Miska Petersham; Rhyme Time by Tomie dePaola; additional works of literature; K12 World Magazines, Handwriting Without Tears: Letters and Numbers for Me Teacher’s Guide and Student Workbook; slate chalkboard; items easily found in the home

LANGUAGE ARTS GREEN (1)

In this course, students receive structured lessons on readiness skills through emphasis on phonics, language skills, literature, and handwriting to help develop comprehension, build vocabulary, and promote a lifelong interest in reading.

- **Phonics**: There are 36 units in the Phonics program. Each unit contains five lessons. In the first four lessons, students learn new skills or practice what they’ve previously learned. The fifth lesson in each unit begins with online review and practice activities that reinforce skills learned in the unit, and is followed by an offline unit assessment. In some lessons, students will read an online decodable reader. These are short, interactive stories that consist entirely of words students are able to read. Students will acquire the critical skills and knowledge required for reading and literacy.
- **Literature and Comprehension**: The K12 Language Arts Literature and Comprehension program consists of 24 units with reading selections from the Classics anthology, nonfiction magazines, trade books, and other books students choose for themselves. Students will listen to and read a variety of poetry, fiction, and nonfiction to develop their reading comprehension skills.
- **Handwriting**: Students will further develop their handwriting skills through Handwriting Without Tears. In Semester 1, students will work in the My Printing Book. In Semester 2, students will practice handwriting on their own.
- **Spelling**: There are 18 units in K12 Spelling, which begins in the second semester of Grade 1. Each unit contains five lessons. The first lesson of a unit introduces new spelling words. In the second and third lessons, you and your students work together to practice the spelling words introduced in the first lesson. There is an online review in Lesson 4 and an offline assessment in Lesson 5. Students will master the spelling skills needed to read and write proficiently.
- **Vocabulary**: K12 Vocabulary exposes students to a wide variety of words. Students will learn, review, and practice words online. There are 18 units in K12 Vocabulary. In the first 8 lessons of each unit, students will study 3 sets of related words. Lesson 9 of each unit is a review of all the words. The 10th lesson is always a Unit Checkpoint, testing students on all the words they studied.
- **Writing Skills**: The program includes 18 alternating
units of Grammar, Usage, and Mechanics lessons and Composition lessons. In odd-numbered units, students will learn grammar, usage, and mechanics skills that will help them communicate in standard English. The fourth lesson of each unit is an online review of the unit’s skills, and the fifth lesson is an offline assessment. In even-numbered composition units, students will also learn techniques for planning, organizing, and creating different kinds of writing. Each unit starts with a journal assignment that will help get students writing and generating ideas to be used in their writing assignments. The program includes rubrics and sample papers to help evaluate students’ work.


Additional Curriculum Items: Additional works of literature, including Listen My Children: Poems for First Graders; Ready, Set, Read, Classics for Young Readers, items easily found in the home

**LANGUAGE ARTS ORANGE (2)**

This course provides a comprehensive and interrelated sequence of lessons for students to continue building their proficiency in literature and comprehension, writing skills, vocabulary, spelling, and handwriting.

- **Literature and Comprehension:** A guided reading approach builds comprehension strategies and gradually transitions students to independent reading assignments. Leveled reading selections progressively expose students to new challenges, including greater length, more complex content, and new vocabulary. The emphasis is on classic literature from many cultures, poetry, and nonfiction articles. Students also make their own reading choices to help foster a lifelong love of reading.

- **Writing Skills:** Students learn about parts of speech, usage, capitalization, and punctuation, then apply this knowledge as they write sentences and paragraphs. Students are introduced to the process of writing, as they pre-write, draft, revise, and proofread their work before they share it with others. Written products include letters, poems, literature reviews, research reports, and presentations.

- **Vocabulary:** Students increase their vocabulary through word study, comprehension, and word analysis, then apply their knowledge in a variety of authentic contexts.

- **Spelling:** Students continue their exploration of spelling conventions with lessons in sound-symbol relationships and patterns.

- **Handwriting:** Handwriting Without Tears helps students develop printing skills and, if appropriate, begin cursive handwriting.


**LANGUAGE ARTS PURPLE (3)**

In this course, students receive structured lessons in the language arts, a discipline which includes literature and comprehension, writing skills, vocabulary, spelling, and handwriting. The purpose of these lessons is to increase reading comprehension, develop fundamental skills in oral and written communication, build vocabulary, and promote a lifelong interest in reading. This course addresses current thinking in assessment standards.

**Literature and Comprehension:** Within this program, students will read a variety of poetry, fiction, and nonfiction. The reading selections in each unit share a common theme, topic, or genre. The accompanying lessons will develop students’ literal and inferential comprehension skills. Students will read selections from the provided materials and then work online to analyze and examine the selections in more depth. They will work offline to further evaluate the work, make connections among works and the broader world, and apply the skills that they have learned in written assignments and creative projects. Students will also select books that they want to read from a list that is provided and analyze those works. In Critical Skills Practice units, students will practice important test-taking skills by reading passages and answering multiple-choice questions about what they have read. These questions are similar to those found on common standardized assessments and state tests.

**Handwriting:** Students will further develop their handwriting skills through Handwriting Without Tears. In Semester 1, students will work in the Cursive Handwriting book. In Semester 2, students will practice cursive on their own as they complete assigned work in other language arts programs.
Spelling: There are 36 units in K12 Spelling. Each unit contains five lessons. The first lesson of a unit introduces new spelling words. In the second and third lessons, you and your students work together to practice the spelling words introduced in the first lesson. These first three lessons are offline. The fourth lesson in each unit is an online review activity. Finally, the fifth lesson consists of an offline Unit Checkpoint that checks students’ mastery of the spelling words. Each lesson is designed to take approximately 15 minutes. Students will master the spelling skills needed to read and write proficiently.

Vocabulary: K12 Vocabulary exposes students to a wide variety of words. Students will learn, review, and practice words online. K12 Vocabulary is made up of 18 units of 10 lessons each. Lessons are entirely online. Each lesson should take about 10 minutes. In the first 8 lessons of each unit, students will study 3 sets of related words. Lesson 9 of each unit is a review of all the words. Lesson 10 is always a Unit Checkpoint, testing students on all the words they studied.

Writing Skills: Writing Skills units combine online and offline activities to teach students about grammar, usage, and mechanics, as well as how to plan, write, revise, proofread, and publish various forms of writing. For example, in Unit 4, students will learn about combining sentences and strategies for writing a personal story. Most units end with an assessment on language skills, along with rubrics and sample papers to help evaluate students’ writing. There are also Critical Skills Practice units that help students apply their knowledge of language, including grammar, spelling, and writing strategies to answer questions, similar to those on standardized tests, including planning and writing a response to a prompt.


LANGUAGE ARTS 4

This comprehensive course covers reading comprehension; analysis, composition; vocabulary; and grammar, usage, and mechanics, including sentence analysis and diagramming. Structured lessons on spelling enable students to recognize base words and roots in related words, while direct and explicit instruction in vocabulary teaches students to identify and clarify meanings of grade level-appropriate and domain-specific words. Lessons are designed to develop reading comprehension, build vocabulary, and help students become more independent readers. The course emphasizes classic literature. Additionally, students read works of nonfiction as well as four novels selected from a long list of classic titles. This course addresses current thinking in assessment standards.

Curriculum Items: Classics for Young Readers, Vol. 4A; Classics for Young Readers, Vol. 4B; Writing in Action, Vol. C; Writing in Action, Vol. D; Exercises in English, Millennium ed. (Level D); Robinson Crusoe by Daniel Defoe (K12 edition, retold for young readers); Feathers, Flippers and Fur; If You Lived in the Days of the Knights by Ann McGovern; Nature’s Way

LANGUAGE ARTS 5

This course provides structured lessons on reading comprehension; analysis, composition; vocabulary; and grammar, usage, and mechanics. Through emphasis on spelling, students learn relationships between sounds and spellings in words and affixes. Targeted vocabulary instruction develops students’ ability to identify, clarify, and expand on the meanings of grade level-appropriate and domain-specific words. Lessons are designed to develop comprehension, build vocabulary, and help students become more independent and thoughtful readers. Students practice writing as they write a memoir, an editorial, a research paper, a business letter, and more. They learn about parts of speech, punctuation, and research skills. Students study literature in a variety of genres, including fiction, poetry, nonfiction, drama, and novels. This course addresses current thinking in assessment standards.

Curriculum Items: Classics for Young Readers, Vol. 5A; Classics for Young Readers, Vol. 5B; American Lives and Legends; Exercises in English, Millennium ed. (Level E); American Tall Tales by Adrien Stoutenburg; Bard of Avon: The Story of William Shakespeare by Diane Stanley and Peter Vennema; Curious Creatures; Writing in Action, Vol. 5E; Writing in Action, Vol. 5F; I Didn’t Know That!, Don Quixote by Miguel de Cervantes (K12 edition, retold for young readers)

MARK12 READING I (ADAPTIVE REMEDIATION)

Mastery. Acceleration. Remediation. K12. MARK12 courses are for students in the third to fifth grades who are struggling readers. MARK12 Reading I gives students who are reading several grades below grade level the opportunity to master missed concepts in a way that accelerates them through the remediation process by incorporating adaptivity and online assessments. Students work independently and with a Learning Coach to develop oral reading, comprehension, phonics, spelling, and fluency skills. They also practice grammar, usage, mechanics, and composition. The engaging
course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success.

**Curriculum Items:** MARK12 Reading Lesson Guide, Vol. 1; MARK12 Reading Activity Book, Vol. 1; MARK12 Classics for Young Readers, Vol. 1; Just Write! Levels 1 and 2; online tile kit; items easily found in the home; a speaker and microphone are necessary; a headset combination is recommended.

**MARK12 READING II (ADAPTIVE REMEDIATION)**

Mastery. Acceleration. Remediation. K12. MARK12 courses are for students in the third to fifth grades who are struggling readers. MARK12 Reading II gives students who are reading two or more grades below grade level the opportunity to master missed concepts in a way that accelerates them through the remediation process by incorporating adaptivity and online assessments. Students work independently and with a Learning Coach to develop oral reading, comprehension, phonics, spelling, and fluency skills. They also practice grammar, usage, mechanics, and composition. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success.

**Curriculum Items:** MARK12 Reading Lesson Guide, Vol. 2; MARK12 Reading Activity Book, Vol. 2; MARK12 Classics for Young Readers, Vol. 2; Writing in Action, Level A; online tile kit; items easily found in the home; a speaker and microphone are necessary; a headset combination is recommended.

**MARK12 READING III (ADAPTIVE REMEDIATION)**

Mastery. Acceleration. Remediation. K12. MARK12 courses are for students in the third to fifth grades who are struggling readers. MARK12 Reading III gives students who are reading approximately two grades below grade level the opportunity to master missed concepts in a way that accelerates them through the remediation process by incorporating adaptivity and online assessments. Students work independently and with a Learning Coach to develop oral reading, comprehension, phonics, spelling, and fluency skills. They also practice grammar, usage, mechanics, and composition. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success.

**Curriculum Items:** Activity book; custom K12 block set; lesson guide book; items easily found in the home.

**MATH PLUS BLUE (K)**

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course introduces students to numbers through 30. Students learn through reading, writing, counting, comparing, ordering, adding, and subtracting. They experience problem solving and encounter early concepts in place value, time, length, weight, and capacity. They learn to gather and display simple data. Students also study two- and three-dimensional figures—they identify, sort, study patterns, and relate mathematical figures to objects within their environment.

**Curriculum Items:** Activity book; custom K12 block set; lesson guide book; items easily found in the home.
MATH PLUS ORANGE (2)

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course focuses primarily on number concepts, place value, and addition and subtraction of numbers through 1,000. Special emphasis is given to problem solving, inverse operations, properties of operations, decomposition of numbers, and mental math. Students study money, time, and measurement; geometric figures; analyzing and displaying data with new representations; and determining the range and mode of data. Early concepts about multiplication, division, and fractions are introduced.

Curriculum Items: Activity book; custom K12 block set; lesson guide book; Base 10 blocks set; place-value mat; items easily found in the home

MATH PLUS PURPLE (3)

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. This engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course emphasizes conceptual understanding of the mathematical operations: addition, subtraction, multiplication, and division. Students make connections between the operations, as well as practice through problem solving, to achieve fluency. The use of problem solving and representing problem situations with equations, which include symbols for unknown values, introduces algebraic thinking. The course addresses fractions through multiple representations, as well as solving real-world problems, which gives students the ability to connect the use of fractions with problem situations in a way that makes sense and creates deeper understanding. The courses addresses geometry and measurement through introductory work on perimeter, area, and attributes of two-dimensional geometric figures, and applying measuring techniques to solving problems involving time, length, capacity, and mass. Throughout the course, problem solving connects individual mathematical skills and concepts in a useful and in-depth way. This course includes standards-based tasks, digital literacy skills, and assessment questions.

Curriculum Items: Activity Book; lesson guide book; color tiles set; items easily found in the home

MATH PLUS RED (4)

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. This engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course includes standards-based tasks, digital literacy skills, and assessment questions.

Curriculum Items: Activity Book; lesson guide book; color tiles set; items easily found in the home

MATH PLUS YELLOW (5)

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. This engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course builds on student understanding of numbers and operations by making connections between place value, decimals, and fractions, introducing multiplication and division of decimal numbers; and extending understanding of fraction operations. The course focuses on computational fluency in multiplication and division of whole numbers through the use of standard algorithms. The course enhances fluency of operations through application in the solving of measurement, geometry, and data analysis problems using mathematical problem-solving techniques. Students make connections between fraction and decimal representation of numbers. Students study equivalences and relationships between fractions and decimals on the number line and with other models. Students develop algebraic thinking as they work with variables and formulas to solve multistep word problems and as they study patterns and rules. They extend their knowledge of geometry through more in-depth classification of shapes and work with lines, angles, and rotations and the connection of geometric concepts to measurement and problem solving. This course includes standards-based tasks, digital literacy skills, and assessment questions.

Curriculum Items: Activity Book; lesson guide book; color tiles set; items easily found in the home

MATH PLUS YELLOW (5)

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. This engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course builds on student understanding of numbers and operations by making connections between place value, decimals, and fractions, introducing multiplication and division of decimal numbers; and extending understanding of fraction operations. The course focuses on computational fluency in multiplication and division of whole numbers through the use of standard algorithms. The course enhances fluency of operations with whole numbers, fractions, and decimals through application in the solving of measurement, geometry, and data-analysis problems using mathematical problem-solving techniques. Students continue to develop algebraic thinking as they work with variables and formulas to solve multistep word problems, further study patterns and rules, and are introduced to representing problems graphically using the coordinate plane. They extend their knowledge of geometry through the use
of the classification of shapes into hierarchies based on their attributes, the introduction of three-dimensional figures and volume, and connecting geometric concepts to measurement and problem solving. This course includes standards-based tasks, digital literacy skills, and assessment questions.

**Curriculum Items:** Activity Book; lesson guide book; protractor; items easily found in the home

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**SCIENCE**

**SCIENCE K**

Kindergarten students begin to develop observation skills as they learn about the five senses, the Earth’s composition, and the basic needs of plants and animals. Students will also explore topics such as measurement (size, height, length, weight, capacity, and temperature), matter (solid, liquid, and gas), the seasonal cycle, our Earth (geography, taking care of Earth), motion (pushes and pulls, magnets), and astronomy (Earth, Sun, Moon, and stars, exploring space; astronauts Neil Armstrong and Sally Ride).

**Curriculum Items:** Safety glasses; basic thermometer, bar magnets (pair); magnifying glass; mirror; inflatable globe; *Animals in Winter* by Henrietta Bancroft and Richard G. Van Gelder; *My Five Senses* by Aliki; *The Big Dipper* by Franklyn Branley; *What’s Alive?* by Kathleen Weidner Zoehfeld

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**SCIENCE 1**

Students learn to perform experiments, record observations, and understand how scientists see the natural world. They germinate seeds to observe plant growth, and make a weather vane. Students will also explore topics such as matter (states of matter, mixtures, and solutions), weather (cloud formation, the water cycle), animal classification and adaptation (insects, amphibians, birds, and mammals), habitats (forests, deserts, rain forests), the oceans (waves and currents, casts, coral reefs), light (how it travels, reflections, and inventor Thomas Edison), plants (germination, functions of roots, stems), and the human body.

**Curriculum Items:** Bean seeds; grass seeds; graduated cylinder; primary rock and mineral kit; thermometer; safety goggles; magnifying glass; centimeter gram cubes; primary balance; iron filings; bar magnets; latch magnet; ring magnet; horseshoe magnet; 10 Newton spring scale; pulley, unmarked thermometer; *Fossils Tell of Long Ago* by Aliki; *Let’s Go Rock Collecting* by Roma Gans; *What Happens to a Hamburger?* by Paul Showers; *What Makes a Magnet?* by Franklyn Branley; *Why Frogs Are Wet* by Judy Hawes

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**SCIENCE 2**

Students perform experiments to develop skills of observation and analysis and learn how scientists understand our world. They demonstrate how pulleys lift heavy objects, make a temporary magnet and test its strength, and analyze the parts of a flower. Students will explore topics such as the metric system (liters and kilograms), force (motion and simple machines, physicist Isaac Newton), magnetism (magnetic poles and fields, how a compass works), sound (how sounds are made, inventor Alexander Graham Bell), the human body (cells, the digestive system), and geology (layers of the earth, kinds of rocks, weathering).

**Curriculum Items:** Bean seeds, grass seeds; graduated cylinder; primary rock and mineral kit; thermometer; safety goggles; magnifying glass; centimeter gram cubes; primary balance; iron filings; bar magnets; latch magnet; ring magnet; horseshoe magnet; 10 Newton spring scale; pulley, unmarked thermometer; *Fossils Tell of Long Ago* by Aliki; *Let’s Go Rock Collecting* by Roma Gans; *What Happens to a Hamburger?* by Paul Showers; *What Makes a Magnet?* by Franklyn Branley; *Why Frogs Are Wet* by Judy Hawes

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**SCIENCE 3**

Students learn to observe and analyze through hands-on experiments and gain further insight into how scientists understand our world. They observe and chart the phases of the moon, determine the properties of insulators and conductors, and make a three-dimensional model of a bone. Students will explore topics such as weather (air pressure, precipitation, clouds, humidity, fronts, and forecasting), vertebrates (features of fish, amphibians, reptiles, birds, and mammals), ecosystems (climate zones, tundra, forests, desert, grasslands, freshwater, and marine ecosystems), matter (phase changes, volume, mass, atoms), the human body, energy, light, and astronomy.

**Curriculum Items:** *A Walk in the Boreal Forest: Biomes of North America Series*; *A Walk in the Desert: Biomes of North America Series*; *A Walk in the Rainforest: Biomes of North America Series*; *A Walk in the Tundra: Biomes of North America Series*; *A Walk in the Deciduous Forest: Biomes of North America Series*; *A Walk in the Prairie: Biomes of North America Series*; *Sunshine Makes the Seasons* by Franklyn Branley; *The Moon Seems to Change* by Franklyn Branley; graduated cylinder; directional compass; safety goggles; magnifying glass; thermometer; clay (four colors)

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**SCIENCE 4**

Students develop scientific reasoning and perform hands-on experiments in Earth, life, and physical sciences. They construct an electromagnet, identify minerals according to their properties, use chromatography to separate liquids,
and assemble food webs. Students will explore topics such as the interdependence of life; plant and animal interactions; chemistry; forces and fluids; the human body; the nervous system; invertebrates; electricity and magnetism; rocks and minerals, weathering, erosion, and deposition; the fossil record and the history of life; and the Paleozoic, Mesozoic, and Cenozoic eras.

Curriculum Items: Bar magnets (pair); safety goggles; graduated cylinder, 100 mL; lamp bulb receptacles; lamp bulbs; magnifying glass; intermediate rock and mineral kit; advanced thermometer; Animals Without Backbones: Invertebrates by Bridget Anderson; The History of Life Through Fossils, Lickle Publishing; clay (four colors), bare copper wire, gravel, adding machine paper, pipe cleaners; sand; white tile

SCIENCE 5

Students perform experiments, develop scientific reasoning, and recognize science in the world around them. They build a model of a watershed, test how cell membranes function, track a hurricane, and analyze the effects of gravity. Students will explore topics such as water resources (aquifers, watersheds, and wetlands), the oceans (currents, waves, tides, the ocean floor), Earth’s atmosphere (weather patterns, maps, forecasts, fronts), motion and forces (pushes or pulls, position and speed, gravity), chemistry (structure of atoms, elements and compounds), cells and cell processes, taxonomy of plants and animals, and animal physiology.

Curriculum Items: Alum; safety goggles; graduated cylinder; litmus paper; thermometer; How Bodies Work; The Kingdoms of Life by Bridget Anderson; clay (four colors); potting soil; coarse gravel; pea gravel; coarse sand; fine sand

HISTORY

HISTORY K

This beginning course teaches the basics of world geography through a storybook tour of the seven continents, and provides an introduction to American history and civics through a series of biographies of famous Americans. Supplementary lessons introduce students to symbols that represent American freedom; the laws, rights, and responsibilities of citizens; the cultures and traditions of the United States; and basic economic concepts.

Curriculum Items: U.S./world map (K–2); inflatable globe (K–2); Bringing the Rain to Kapiti Plain by Verna Aardema, Follow the Drinking Gourd by Jeannette Winter; Madeline by Ludwig Bemelmans; Possum Magic by Mem Fox, The Great Kapok Tree by Lynne Cherry, The Story of Ferdinand by Munro Leaf and Robert Lawson; The Story About Ping by Marjorie Flack and Kurt Wiese; When Clay Sings by Byrd Baylor

HISTORY 1

History 1 kicks off a program that, spanning the elementary grades, provides an overview of world geography and history from the Stone Age to the Space Age. This course takes students through the age of classical civilizations. Supplementary lessons focus on concepts in economics and citizenship.

Curriculum Items: U.S./world map (K–2); inflatable globe (K–2); Mummies by Joyce Milton; Tut’s Mummy: Lost and Found by Judy Donnelly; The Trojan Horse by Emily Little

HISTORY 2

History 2 continues a program that spans the elementary grades, exploring world geography and history from the Stone Age to the Space Age. This course focuses on the time from ancient Rome to the later Middle Ages. Supplementary lessons focus on concepts in economics and citizenship.

Curriculum Items: U.S./world map (K–2); inflatable globe (K–2); Knights in Shining Armor by Gail Gibbons, Pompeii … Buried Alive by Edith Kunhardt, The Hundredth Name by Shulamith Levey Oppenheim, Saint George and the Dragon by Margaret Hodges; Sundiata: Lion King of Mali by David Wisniewski

HISTORY 3

History 3 continues a program that spans the elementary grades, exploring world geography and history from the Stone Age to the Space Age. This course focuses on the period from the Renaissance through the American Revolution. Supplementary lessons focus on concepts in economics and citizenship.

Curriculum Items: Michelangelo by Mike Venezia; America 1492 (“Kids Discover” Magazine); The Revolutionary War by Brendan January (Children’s Press, 2000); Understanding Geography Level 3—Map Skills and Our World (maps.com, 2006); inflatable globe (3–6); U.S./world map (3–5)

HISTORY 4

History 4 concludes a program that spans the elementary grades, exploring world geography and history from the Stone Age to the Space Age. This course focuses on the later Middle Ages. Supplementary lessons focus on concepts in economics and citizenship.
Age to the Space Age. This course focuses on the period from the Scientific Revolution to modern times. Supplementary lessons focus on concepts in economics and citizenship.

Curriculum Items: Understanding Geography Level 4—Map Skills and Our World (maps.com, 2006); inflatable globe (3–6); U.S./world map (3–5); Inventors: A Library of Congress Book by Martin Sandler; The U.S. Constitution and You by Syl Sobel

AMERICAN HISTORY A

The first half of a detailed two-year survey of the history of the United States, this course takes students from the arrival of the first people in North America through the Civil War and Reconstruction. Lessons integrate topics in geography, civics, and economics. Building on the award-winning series A History of US, the course guides students through critical episodes in the story of America. Students investigate Native American civilizations; follow the path of European exploration and colonization; assess the causes and consequences of the American Revolution; examine the Constitution and the growth of the new nation; and analyze what led to the Civil War and its aftermath.


ART 1

Following the timeline of K12 History, Art 1 lessons include an introduction to the art and architecture of different cultures such as Mesopotamia and ancient Egypt, Greece, and China. Students will identify landscapes, still lifes, and portraits; study elements of art such as line, shape, and texture; and create art similar to the works they learn about, using many materials and techniques. For example, inspired by Vincent van Gogh’s The Starry Night, students paint their own starry landscape using bold brushstrokes, and make clay sculptures inspired by a bust of Queen Nefertiti and the Great Sphinx.

Curriculum Items: Come Look with Me: Exploring Landscape Art with Children by Gladys S. Blizzard; Come Look with Me: World of Play by Gladys S. Blizzard; art print kit; paintbrushes; modeling clay, assorted colors; tempera paint set; oil pastels

ART 2

Art 2 lessons include an introduction to the art and architecture of ancient Rome, medieval Europe, Islam, Mexico, Africa, China, and Japan. Students will examine elements of art and principles of design such as line, shape, pattern, and more; study and create self-portraits, landscapes, sculptures, and more; and create artworks similar to works they learn about, using many materials and techniques. For example, after studying Winslow Homer’s Snap the Whip, students paint their own narrative landscape, and design stained glass windows inspired by the Notre Dame Cathedral in Paris.

Curriculum Items: How Artists See Play by Colleen Carroll; How Artists See Animals by Colleen Carroll; art print kit; paintbrushes; modeling clay, assorted colors; tempera paint set; oil pastels

ART 3

Following the timeline of K12 History, Art 3 lessons include an introduction to the art and architecture of the Renaissance throughout Europe, including Italy, Russia, and northern Europe. Students also investigate artworks from Asia, Africa, and the Americas created during the same time period. Students will extend their knowledge of elements of art and principles of design—such as form, texture, and symmetry—and draw, paint, and sculpt a variety of works, including self-portraits, landscapes, and still life paintings. For example, after studying da Vinci’s Mona Lisa, students will use shading in their own drawings and make prints showing the features and symmetry of the Taj Mahal.

Curriculum Items: How Artists See Families by Colleen Carroll; How Artists See Work by Colleen Carroll; art print kit; paintbrushes; modeling clay, assorted colors; tempera paint set; oil pastels
ART 4

Lessons include an introduction to the artists, cultures, and great works of art and architecture from the French and American revolutions through modern times. Students will study and create artworks in various media, including portraits, quilts, sculpture, collages, and more; investigate the art of the United States, Europe, Japan, Mexico, and Africa; learn about Impressionism, Cubism, Art Nouveau, and Regionalism; and create artworks inspired by works they learn about, using many materials and techniques. For example, after studying sculptures and paintings of ballerinas by Edgar Degas, students create their own clay sculptures of a figure in motion.

Curriculum Items: Come Look at Me: The Artist at Work by R. Sarah Richardson; Come Look at Me: Exploring Modern Art by Jessica Noelani Wright; art print kit; paintbrushes; tempera paint set; burlap

INTERMEDIATE ART: AMERICAN A

Intermediate Art: American A includes an introduction to the artists, cultures, and great works of art and architecture of North America, from pre-Columbian times through 1877. Students will study and create various works, both realistic and abstract, including sketches, masks, architectural models, prints, and paintings; investigate the art of the American Indians, and Colonial and Federal America; and create artworks inspired by works they learn about, using many materials and techniques. For example, after studying John James Audubon’s extraordinary paintings of birds, students make bird paintings with realistic color and texture.

Curriculum Items: Come Look With Me: Art in Early America by Randy Osofsky; Come Look With Me: Exploring American Indian Art by Stephanie Salomon; art print kit; paintbrushes; white self-hardening clay; tempera paint set; burlap; oil pastels

PREPARATORY MUSIC

Kindergarten students learn about music through lively activities, including listening, singing, and moving. Through games and folk songs from diverse cultures, students learn musical concepts such as high and low, loud and soft. Creative movement activities help students enjoy the music of composers such as Grieg and Haydn. Students will sing along with folk songs, practice moving to music, and listen actively to different kinds of music. They will also understand concepts such as high and low, fast and slow, long and short, loud and soft as well as identify and contrast beat and rhythm.

Curriculum Items: Let’s Sing—Vol. K (songbook); tambourine; slide whistle

BEGINNING 1 MUSIC

This course is for students in grade 1, or students in grade 2 who are new to the K12 Music program. In this course, traditional games and folk songs from many cultures help students begin to read and write simple melodic and rhythmic patterns. Students are introduced to the instruments of the orchestra through Prokofiev’s classic Peter and the Wolf. They explore how music tells stories in The Sorcerer’s Apprentice and are introduced to opera through a lively unit on Mozart’s Magic Flute. Students sing along with folk songs; read and write music; learn to recognize melody in three and four-note patterns; identify rhythms in music using half notes; become familiar with string and percussion instruments of the orchestra; recognize duple and triple meter; and begin to understand standard musical notation.

Curriculum Items: Let’s Sing—Vol. 1 (songbook); tambourine; slide whistle

BEGINNING 2 MUSIC

This course is for students in grade 2 or 3 who have completed Beginning 1 Music. Through traditional folk songs and games, students learn to read more complicated melodic patterns and rhythms. As students listen to works by great composers, such as Vivaldi and Saint-Saëns, they learn to recognize these patterns in the music. Students will sing along with folk songs; read and write music; learn to recognize melody in three and four-note patterns; identify rhythms in music using half notes; become familiar with string and percussion instruments of the orchestra; recognize duple and triple meter; and begin to understand standard musical notation.

Curriculum Items: Let’s Sing—Vol. 2 (songbook); tambourine
**INTRODUCTION TO MUSIC**

Introduction to Music is for students in grade 3 or 4 who are new to K12 and just beginning their study of music. Students learn to recognize and write melodic and rhythmic patterns with four elements, and they practice recognizing these patterns in the music of great composers such as Beethoven and Brahms. Students become familiar with instruments of the orchestra as they listen to music composed by Vivaldi, Saint-Saëns, Holst, and others. Students will read and write music; learn to recognize melody in two-, three-, and four-note patterns; and identify rhythms in music using eighth, quarter, half notes, and rests.

**Curriculum Items:** Let’s Sing—Vol. 2 (songbook); tambourine

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**INTERMEDIATE 1 MUSIC**

This course is for students in grade 3 or 4 who have completed Beginning 1 and 2 Music, or students in grade 4 or 5 who have completed Introduction to Music. Through traditional folk songs, games, and the consistent use of solfège, students learn to read and write a variety of musical patterns and recognize the pentatonic scale. They learn to play simple melodies and rhythms on the recorder, and also learn fundamental concepts in breathing and singing. They become more familiar with the orchestra, especially the woodwind and brass families, and learn about the lives and works of Bach, Handel, Haydn, Mozart, and Beethoven. Students will learn to recognize melody in four- and five-note patterns; identify rhythms in music using sixteenths, dotted half notes, and whole notes, and recognize AB and ABA form.

**Curriculum Items:** Let’s Sing—Vols. 2 and 3 (songbook); recorder

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**INTERMEDIATE 2 MUSIC**

This course is for students in grade 4 or 5 who have completed Intermediate 1 Music. The course begins by introducing notes that are lower or higher than the familiar lines and spaces of the staff. Students expand their knowledge of rhythm and learn about the Romantic period in music. Students also study harmony and practice recognizing pentatonic patterns. Finally, they take a musical trip through Europe, Africa, the Middle East, the Caribbean, Japan, and China.

**Curriculum Items:** Let’s Sing—Vols. 2 and 3 (songbook)

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**INTERMEDIATE 3 MUSIC**

This course is for students in grade 5 who have completed Intermediate 2 Music. The course introduces students to all the notes of the major scale, from low Sol all the way up to high Do. Students also learn to recognize and sing the natural minor scale. They expand their knowledge of rhythm with simple syncopated patterns. This semester introduces the Modern period in music, with listening activities to help students recognize Modern music and identify pieces by individual composers. Near the end of the year, students explore American folk music as they follow the expansion of the country westward. Finally, they learn to recognize the major forms of classical music: three-part song form, theme and variations, rondo, sonata allegro, and fugue.

**Curriculum Items:** Let’s Sing—Vol. 2, 3, and 4 (songbook)

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**EXPLORING MUSIC**

This course is for students in grade 5 who are new to the K12 Music program. This course presents the basics of traditional music appreciation through singing and the study of music in history and culture. Students begin by studying some of the most important classical composers, and then study traditional music from around the country and around the world. Finally, they learn how to follow the form of a piece of music.

**Curriculum Item:** Let’s Sing for Fun (songbook)

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**WORLD LANGUAGES**

**ELEMENTARY SPANISH 1**

This course for beginners with little exposure to world languages is geared for younger minds, still especially receptive to language learning through contextual interpretation and imitation. Highly visual and amusing stories and activities are geared for these developing students, encouraging them to begin telling stories themselves. This course is not just a set of language lessons, but an appealing adventure for young minds. An integrated, game-based reward system keeps learners motivated and eager to progress.

Communication expressions include greetings, introductions, songs, por favor and gracias, and other expressions of daily courtesy, simple storytelling, and free-response questions. Vocabulary starts with numbers 1-10, animals, and shapes, and moves into days of the week, seasons, colors, fruits and vegetables, simple directions, and useful “around town” expressions. Grammar moves from simple sentence
construction, first- and third-person verbs, and indefinite articles to demonstrative pronouns, simple conjunctions, simple possession, and ser and estar.

Students also begin to encounter the third-person past tense, imperative verbs, and second-person present-tense verbs. Cultural topics introduce the geography and customs of Spanish-speaking countries.

**ELEMENTARY SPANISH 2**

The adventure story continues to build upon the base of vocabulary and linguistic structures introduced in Elementary Spanish 1. Interactive activities and increasingly challenging games continue to drive students toward a strong set of intermediate language skills. An integrated, game-based reward system keeps learners motivated and eager to progress. Communication expressions include social exchanges, more complex storytelling, songs, recipes, word puzzles, and interrogative words. Vocabulary includes advanced family and animal-related words and a review of numbers. Poems, stories, and songs are used throughout. Grammar moves from negative and reflexive verbs and third-person plural present verbs to noun-adjective agreement, first-person past-tense verbs, and the plural imperative. Cultural topics include cuisine, climate, geography, and history.

**Prerequisite:** Elementary Spanish 1 (or equivalent)

**ELEMENTARY FRENCH 2**

The adventure story continues to build upon the base of vocabulary and linguistic structures introduced in Elementary French 1. Interactive activities and increasingly challenging games continue to drive students toward a strong set of intermediate language skills. An integrated, game-based reward system keeps learners motivated and eager to progress. Communication expressions include a wider array of social greetings and more complex storytelling and songs. Vocabulary expands with more terms related to animals, body parts, colors, familial relationships, and numbers. Grammar moves from second- and third person plural present-tense forms, prepositional phrases, and more first- and third person present-tense forms to additional conjunctions, reflexive verbs, imperatives, and past-tense forms. Cultural topics include cuisine, climate, geography, and history.

**Prerequisite:** Elementary French 1 (or equivalent)

**ELEMENTARY GERMAN 1**

This course for beginners with little exposure to world languages is geared for younger minds still especially receptive to language learning through contextual interpretation and imitation. Highly visual and amusing stories and activities are geared for these developing students, encouraging them to begin telling stories themselves. This course is not just a set of language lessons, but an appealing adventure for young minds, rich with graphics, games, and engaging interactive activities. An integrated, game-based reward system keeps learners motivated and eager to progress.

Communication expressions include greetings, introductions, ja and nein, danke and bitte and other familiar phrases, songs, simple storytelling, and description activities. Vocabulary starts with animals, body parts, numbers, shapes, small objects, and colors, before moving on to food, farm-related words, useful “around town” expressions, and household terminology. Grammar starts with simple nouns, first-, second-, and third-person present-tense verbs, direct and indirect articles, the conjunction und, the pluralization of nouns, third-person plural present-tense verbs, third-person past-tense verbs, simple prepositions, and expressions conveying “there is,” “there are,” “isn’t,” and “will be.” Cultural topics introduce the geographies and customs of German-speaking Switzerland.

**Prerequisite:** Elementary Spanish 1 (or equivalent)
ELEMENTARY GERMAN 2
The adventure story continues to build upon the base of vocabulary and linguistic structures introduced in Elementary German 1. Interactive activities and increasingly challenging games continue to drive students toward a strong set of intermediate language skills. An integrated, game-based reward system keeps learners motivated and eager to progress.

Communication expressions include a wider array of social greetings, introductions, simple commands, suggestions, questions, German folk songs, and enhanced storytelling. Vocabulary expands in the domains of animals, body parts, numbers, shapes, small objects, familial relationships, food, cooking, and new words useful for telling stories such as “The Three Little Pigs” and “Chicken Little” in German.

Grammar adds more third-person present-tense verbs, direct and indirect articles, and the conjunction aber, and progresses toward new third-person plural present-tense forms, third-person past-tense verbs, additional prepositions, and expressions conveying understanding. Students are also exposed to the simple future tense in the third person.

Cultural topics include cuisine, climate, geography, and history.

Prerequisite: Elementary German 1 (or equivalent)

ELEMENTARY LATIN 1
Latin remains a vital tool in improving students’ fundamental understanding of English and other languages. While it’s considered, in the strictest sense, to be a “dead” language, Latin comes alive in this course through the use of gaming and multimedia techniques, creating the foundation for a deep understanding of cultural, political, and literary history. An integrated, game-based reward system keeps learners motivated and eager to progress.

Communication expressions include greetings, introductions, familiar phrases, relationships, cause and effect, likes and dislikes, and questions. Vocabulary progresses from animals, body parts, family relationships, colors, food, plants, and numbers to small objects, shapes, and household words.

Grammar begins with simple sentence construction, first- and third-person verbs, demonstrative pronouns, conjunctions, and simple possession, before moving on to basic third-person past-tense and imperative forms as well as certain second-person present-tense forms.

Cultural topics introduce the history of the Latin language and daily practices along with military, political, and artistic aspects of the Roman Empire.

ORIENTATION
WELCOME TO ONLINE LEARNING
Families begin the school year with a Welcome to Online Learning course. The course provides an overview of each curriculum area so students and Learning Coaches can familiarize themselves with the philosophy behind the curriculum methodology and overall course organization. The lessons are interactive and include actual animations or graphics that are used in the courses themselves. By the end of the course, students will be fully prepared to begin their K12 lessons in the online school.
MIDDLE SCHOOL
NEW!

We have a number of new courses being added to the middle school catalog this year. You’ll find these denoted by the “New” designation on the following pages. We are particularly excited to announce that we are adding new, robust Music courses and launching the new K12 Summit Curriculum for Math.

K12 SUMMIT CURRICULUM

We are excited to begin introducing K12’s Summit Curriculum for school year 2016–17. These new, standards-based courses take our award-winning curriculum to new heights and reimagines the learning experience for today’s students through rich and engaging course content that links learning to real world experiences and enables students to learn wherever they are on a variety of devices. In addition, each K12 Summit Course has two built-in differentiated instruction paths that optimize the learning experience for students that learn at different paces. The middle school courses being introduced this school year are Math 6, Math 7, and Math 8.

MUSIC

K12 is pleased to offer new music courses for grades 6–8. The new courses provide exceptional instruction for key concepts and objectives in music as well as music theory. The new courses have performance pieces and a wealth of resources for students and teachers.

Course materials will be available in various formats, which may include physical and/or digital materials.

ENGLISH

INTERMEDIATE ENGLISH A

This course is designed to give students the essential building blocks for expressing their own ideas in standard (or formal) English. After an opening focus on paragraph writing, students write a variety of compositions in genres they will encounter throughout their academic careers. The Grammar, Usage, and Mechanics program offers practice in sentence analysis, sentence structure, and proper punctuation. Intermediate English A sharpens reading comprehension skills, engages readers in literary analysis, and offers a variety of literature to suit diverse tastes. This course addresses current thinking in assessment standards.

Curriculum Items: Myths of Ancient Greece and Rome (an anthology from K12), The Secret Garden by Francis Hodgson Burnett; The Adventures of Tom Sawyer by Mark Twain; Animal Adventures (nonfiction collection); Believing Our Eyes and Ears (nonfiction collection); Classics for Young Readers, Vol. 6; Twelfth Night (Shakespeare for Young Readers adaptation); English Language Handbook, Grade 6, Perfection Learning; Vocabulary from Classical Roots, Book A, Educators Publishing Service

Novels: Students read novels of their choice from a selection of award-winning works by renowned authors, from a variety of genres: fantasy, science fiction, historical fiction, realistic fiction, and mystery. (Novels are not part of the standard materials, but are readily available at the library or for purchase in bookstores or online.)

INTERMEDIATE ENGLISH B

This course continues the development of written and oral communication skills, designed to give students the essential building blocks for expressing their own ideas in standard (formal) English. Students continue to practice writing essays in various genres. They analyze the conventional five-paragraph essay structure, and then move on to learn the form and structure of a variety of essays they will encounter in their academic careers. The Grammar, Usage, and Mechanics program addresses many grammatical topics. Intermediate English B sharpens reading comprehension skills, engages students in literary analysis, and offers a variety of literature to suit diverse tastes. This course addresses current thinking in assessment standards.

Curriculum Items: Classics for Young Readers, Vol. 7; English Language Handbook, Grade 7, Perfection Learning; Vocabulary from Classical Roots, Book B, Educators Publishing Service; The Iliad and The Odyssey: Stories from Homer’s Epics (K12 anthology); The Hobbit by J.R.R. Tolkien; Treasure Island by Robert Louis Stevenson; City by David Macaulay; Julius Caesar (Shakespeare for Young Readers adaptation)

Novels: Students read novels of their choice from a selection of award-winning works by renowned authors, from a variety of genres: fantasy, science fiction, historical fiction, realistic fiction, and mystery. (Novels are not part of the standard materials, but are readily available at the library or for purchase in bookstores or online.)
LITERARY ANALYSIS AND COMPOSITION

Throughout this course, students engage in literary analysis of short stories, poetry, drama, novels, and nonfiction. The course focuses on the interpretation of literary works and the development of oral and written communication skills in standard (formal) English. The course is organized in four programs: Literature; Composition; Grammar, Usage, and Mechanics; and Vocabulary. In Composition, students continue to sharpen their skills by writing essays in various genres. In Literature, students read “what’s between the lines” to interpret literature, and they go beyond the book to discover how the culture in which a work of literature was created contributes to the themes and ideas it conveys. Students also read and study a variety of nonfiction works. This course addresses current thinking in assessment standards.

Curriculum Items: Classics for Young Readers, Vol. 8; English Language Handbook, Level 1, Perfection Learning; Vocabulary from Classical Roots, Book C, Educators Publishing Service; Narrative of the Life of Frederick Douglass by Frederick Douglass; Anne Frank: Diary of a Young Girl by Anne Frank; Romeo and Juliet by William Shakespeare (Signet Classic)

Novels: Students choose four out of seven offered titles, including Jane Eyre by Charlotte Brontë, Great Expectations by Charles Dickens, Animal Farm by George Orwell, and To Kill a Mockingbird by Harper Lee.

Drama: Romeo and Juliet by William Shakespeare

Short stories by Langston Hughes, Shirley Jackson, Jack London, Guy de Maupassant, Edgar Allan Poe, James Thurber, and more


Autobiography: Selections by Mark Twain, Ernesto Galarza, and Maya Angelou; Narrative of the Life of Frederick Douglass, An American Slave by Frederick Douglass or Anne Douglass; Diary of a Young Girl by Anne Frank

MATH

MTH06: MATH 6 (NEW)
K12 Summit Curriculum

In K12’s Math 6 Summit course, students deepen their understanding of multiplication and division of fractions to apply their knowledge to divide fractions by fractions, with an additional focus on increasing efficiency and fluency. Students gain a foundation in the concepts of ratio and rate as an extension of their work with whole number multiplication and division, and in preparation for work with proportional relationships in Math 7. Students also make connections among area, volume, and surface area, and continue to lay the groundwork for deep algebraic understanding by interpreting and using expressions and equations.

Curriculum Item: Summit Curriculum Math 6 Reference Guide

INTERMEDIATE MATHEMATICS A

Intermediate Mathematics A is the first of a three-year middle school math sequence. This research-based course focuses on computational fluency, conceptual understanding, and problem solving and expands more deeply into concepts of geometry, algebra, and statistics. This engaging course features new graphics and learning tools. Students solve expressions and equations in the context of perimeter, area, and volume problems while further developing computational skills with fractions and decimals. Also in the context of problem solving, students add, subtract, multiply, and divide positive and negative numbers and work with problems addressing net gains and losses. Students solve problems involving ratios, proportions, and percentages with an emphasis on both unit rates and constant rates as well as problems involving direct variation. They learn multiple representations for communicating information such as graphs on the coordinate plane, measures of center with statistical data, and a variety of data displays. This course also includes standards-based tasks, digital literacy skills, and multiple question types for assessments.


MATH 6: FUNDAMENTALS OF GEOMETRY AND ALGEBRA

Students enhance computational and problem-solving skills while learning topics in algebra, geometry, probability, and statistics. They solve expressions and equations in the
context of perimeter, area, and volume problems while further developing computational skills with fractions and decimals. The study of plane and solid figures includes construction and transformations of figures. Also in the context of problem solving, students add, subtract, multiply, and divide positive and negative integers and solve problems involving ratios, proportions, and percentages, including simple and compound interest, rates, discount, tax, and tip problems. They learn multiple representations for communicating information such as graphs on the coordinate plane, statistical data and displays as well as the results of probability and sampling experiments. They investigate patterns involving addition, multiplication, and exponents, and apply number theory and computation to mathematical puzzles.

**Prerequisite:** Math Plus Yellow

**MTH07: MATH 7 (NEW)**

**K12 Summit Curriculum**

In K12’s Math 7 Summit course, students focus on real-world scenarios and mathematical problems involving algebraic expressions and linear equations and begin to apply their understanding of rational numbers with increased complexity. The course lays the foundation for exploring concepts of angle, similarity and congruence, more formally addressed in Math 8, as students work with scale drawings and construct and analyze relationships among geometric figures. Students also develop and apply understandings of proportional relationships.

**Curriculum Item:** Summit Curriculum Math 7 Reference Guide

**MATH 7: PRE-ALGEBRA**

In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems.

**Curriculum Item:** Pre-Algebra: A Reference Guide and Problem Sets

**Prerequisite:** Math 6: Fundamentals of Geometry and Algebra (or equivalent)

**MTH08: MATH 8 (NEW)**

**K12 Summit Curriculum**

K12’s Math 8 Summit course prepares students for more advanced study in algebra as students solve linear equations and systems of equations, work with radical and integer exponents, gain conceptual understanding of functions, and use functions to model quantitative relationships. To prepare students for more advanced study in geometry, the course emphasizes the Pythagorean theorem and a deepening exploration of similarity and congruence.

**Curriculum Item:** Summit Curriculum Math 8 Reference Guide

**INTERMEDIATE MATHEMATICS C**

Intermediate Mathematics C is the third of a three-year middle school math sequence that prepares students for success in high school algebra. The course begins with properties of numbers, including exponents, as well as measurement and precision with scientific notation. After using transformations to solve linear equations with one variable, the course presents linear equations and systems with two variables. The course emphasizes modeling with linear relationships, including the use of linear functions to model relationships between bivariate statistical data. Geometry topics include distances, angles, similarity, and congruence with two-dimensional figures and volumes of three-dimensional figures. Finally, students use irrational numbers and the Pythagorean theorem to solve mathematical and real-world problems. This course aligns to national standards and is designed to focus on critical skills and knowledge needed for success in further mathematical studies, including high school algebra. After completing this course, students will be ready to take Algebra I or Integrated Math I in high school.

**Curriculum Item:** Intermediate Mathematics C: A Reference Guide and Problem Sets

**Prerequisite:** K12 Intermediate Mathematics A
**MATH 8: ALGEBRA**

Students develop algebraic fluency by learning the skills needed to solve equations and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Students learn to use number properties to simplify expressions or justify statements; describe sets with set notation and find the union and intersection of sets; simplify and evaluate expressions involving variables, fractions, exponents, and radicals; work with integers, rational numbers, and irrational numbers; and graph and solve equations, inequalities, and systems of equations. They learn to determine whether a relation is a function and how to describe its domain and range; use factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulate and evaluate valid mathematical arguments using various types of reasoning; and translate word problems into mathematical equations and then use the equations to solve the original problems.

**Curriculum Item:** Algebra I: Reference Guide and Problem Sets

**Prerequisite:** Math 7: Pre-Algebra (or equivalent)

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**ADVANCED EARTH SCIENCE**

Advanced Earth Science is a rigorous middle school course. It was conceived for the student who loves geology or meteorology and is ready for an extra challenge. Students tackle such topics as rocks and minerals, plate tectonics and the drifting of continents, volcanoes, earthquakes, oceanography, weather, and astronomy. Practical, hands-on lesson activities help students discover how scientists investigate the living world. Students perform laboratory activities and a full-unit investigation to learn about the application of scientific methods.

**Curriculum Items:** Wall map set (science/history); graduated cylinder; pipe cleaners; advanced rock and mineral kit; diffraction grating film; latch magnet; safety glasses; magnifying glass; clay (four colors); fine sand; white tile; thermometer

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**LIFE SCIENCE**

The K12 Life Science program invites students to investigate the world of living things—at levels both large and small—by reading, observing, and experimenting with aspects of life on Earth. Students explore an amazing variety of organisms, the complex workings of the cell, the relationship between living things and their environments, and discoveries in the world of modern genetics. Practical, hands-on lesson activities help students discover how scientists investigate the living world. Students perform laboratory activities and a full-unit investigation to learn about the application of scientific methods.

**Curriculum Items:** Graduated cylinder; compound microscope; radish seeds; microscope slides (set of 12); slide cover slips (set of 12); transparencies (set of 12); petri dishes; agar vials; rhizobium bacteria; green bean bush seeds; safety glasses; magnifying glass; thermometer

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**ADVANCED LIFE SCIENCE**

Advanced Life Science is a rigorous middle school course, conceived for the student who loves biology and is ready for an extra challenge. Students tackle such topics as ecology, microorganisms, animals, plants, cells, and genetics. They are also introduced to gene expression and other aspects of cell biology. Practical, hands-on lesson activities help students discover how scientists investigate the living world. Students perform laboratory activities and a full-unit investigation to learn about the application of scientific methods.

**Curriculum Items:** Graduated cylinder; compound microscope; radish seeds; microscope slides (set of 12); slide cover slips (set of 12); transparencies (set of 12); petri dishes; agar vials; rhizobium bacteria; green bean bush seeds; safety glasses; magnifying glass
PHYSICAL SCIENCE

The K12 Physical Science program introduces students to many aspects of the physical world, focusing first on chemistry and then on physics. The course provides an overview of the physical world and gives students tools and concepts to think clearly about atoms, molecules, chemical reactions, motion, electricity, light, and other aspects of chemistry and physics. Among other subjects, students study the structure of atoms, the elements and the Periodic Table; chemical reactions; forces, including gravitational, motion, acceleration, and mass; and energy, including light, thermal, electricity, and magnetism.

Curriculum Items: Graduated cylinder, stopwatch, 10 Newton spring scale; digital scale; double pulley; metallic rod; metallic spring; muriatic acid; phenolphthalein; protective gloves (two pair); D-cell battery holder; cork stoppers; copper wire set

ADVANCED PHYSICAL SCIENCE

Advanced Physical Science is a rigorous middle school course conceived for the enthusiastic science student who is ready for an extra challenge. Students learn about the physical world and tackle topics such as matter, energy, atoms, motion, thermodynamics, and other aspects of chemistry and physics. Practical, hands-on lesson activities help students discover how scientists investigate the living world. Students perform laboratory activities and a full-unit investigation to learn about the application of scientific methods.

Curriculum Items: Graduated cylinder, stopwatch, 10 Newton spring scale; digital scale; double pulley; metallic rod; metallic spring; muriatic acid; phenolphthalein, protective gloves (two pair); D-cell battery holder; cork stoppers; copper wire set

HISTORY

AMERICAN HISTORY B

The second half of a detailed two-year survey of the history of the United States, this course takes students from the westward movement of the late 1800s to the present. Lessons integrate topics in geography, civics, and economics. Building on the award-winning series A History of US, the course guides students through critical episodes in the story of America. Students examine the impact of the settlement of the American West; investigate the social, political, and economic changes that resulted from industrialization; explore the changing role of the U.S. in international affairs from the late nineteenth century through the end of the Cold War; and trace major events and trends in the United States from the Cold War through the first decade of the twenty-first century.


INTERMEDIATE WORLD HISTORY A:
FROM PREHISTORY THROUGH THE MIDDLE AGES

In this first part of a survey of world history from prehistoric to modern times, K12 online lessons and assessments complement The Human Odyssey, a textbook series developed and published by K12. This course focuses on the development of civilization across a 12,000-year span from the Ice Age to the Middle Ages, from cave paintings to stained glass windows, from crude huts to Gothic cathedrals. The course introduces geography concepts and skills as they appear in the context of the historical narrative.

Curriculum Item: The Human Odyssey, Volume 1: Prehistory Through the Middle Ages

INTERMEDIATE WORLD HISTORY B:
OUR MODERN WORLD, 1400 TO 1914

Continuing a survey of world history from prehistoric to modern times, K12 online lessons and assessments complement the second volume of The Human Odyssey, a textbook series developed and published by K12. This course focuses on the story of the past, from the fifteenth century to 1914 and the beginning of World War I. The course is organized chronologically and, within broad eras, regionally. Lessons explore developments in religion, philosophy, the arts, and science and technology. The course introduces geography concepts and skills as they appear in the context of the historical narrative.

Curriculum Item: The Human Odyssey, Volume 2: Our Modern World, 1400 to 1914
INTERMEDIATE ART: AMERICAN B
Intermediate Art: American B is designed to complement K12 American History B. Following the same historical timeline, lessons include an introduction to the artists, cultures, and great works of American art and architecture from the end of the Civil War through modern times. Students will investigate paintings done in various styles, from Impressionist to Pop; learn about modern sculpture and folk art; discover how photographers and painters have inspired one another; examine examples of modern architecture, from skyscrapers to art museums; and create artworks inspired by works they learn about.
Curriculum Items: Art print kit; paintbrushes; plastilina clay (10 colors); acrylic paint set; oil pastels

INTERMEDIATE ART: WORLD A
Intermediate Art: World A is designed to complement Intermediate World History A: From Prehistory Through the Middle Ages. Following the same historical timeline, lessons include an introduction to the artists, cultures, and great works of world art and architecture from ancient through medieval times. Students will investigate how artists from different civilizations used various techniques, from painting to mosaic; examine elements of design and styles of decoration, from the spiral to the solar disk; and explore some of the best-preserved works from ancient tombs, including the treasures of Egypt’s King Tut.
Curriculum Items: Art print kit; paintbrushes; white self-hardening clay; acrylic paint set

INTERMEDIATE ART: WORLD B
K12 Intermediate Art: World B is designed to complement World History: Our Modern World, 1400 to 1917. Following the same historical timeline, lessons include an introduction to the artists, cultures, and great works of world art and architecture from the Renaissance through modern times. Students will study various works of art from the Renaissance and beyond; discover great works of art and see how they influenced later artists; compare and contrast works from many civilizations, from paintings to sculpture, architecture, book covers, prints, and more; and create artworks inspired by works they learn about.
Curriculum Item: Art print kit; acrylic paint; self-hardening white clay; paintbrush set

SPOTLIGHT ON MUSIC
Spotlight on Music is a comprehensive, interactive music curriculum designed to develop music concepts and skills for grades 6–8. This program is delivered through Music Studio, a digital platform with a variety of online tools to support learning. Lessons cover music concepts, music theory, music reading, and performance while developing music appreciation. Spotlight on Music includes songs, creative movement, physical activities, dramatization, and engaging experiences to celebrate our rich musical heritage.
Curriculum Items: Grades 6–8: tambourine, rhythm sticks, and recorder

MUSIC CONCEPTS A
This course is for students in grade 6, or students in grade 7 who are new to the K12 Music program. Students learn the fundamentals of music as they relate to the piano key, and study a select group of composers and their music. The course covers the staff and the keyboard, extending the staff, and flats, sharps, and scales.

MUSIC CONCEPTS B
This course is for students in grade 7 who have already completed Music Concepts A. Students learn the fundamentals of music, as they relate to the piano key, and study a select group of composers and their music. The course covers the elements of rhythm and melody; rhythms, rests, and keys; and minor scales, syncopation, and harmony.

MUSIC APPRECIATION
This course is for students in grade 8. Music Appreciation covers the fundamentals of music (such as rhythm, beat, melody, harmony, form, and expression), and a survey of music history beginning with the early music of the Greeks and the Middle Ages. The course concludes with Modern music by composers such as Copland and Prokofiev. Topics include the elements of music, music and emotion; musical style; musical instruments of the world; and music through history.
MIDDLE SCHOOL SPANISH 1

This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School Spanish I. Students begin their introduction to Spanish by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; and take frequent assessments where their language progress can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Prerequisite: K12 Middle School Spanish 1 (or equivalent)

*Middle School Spanish 2

Students continue their language-learning adventure by progressing to this next level of middle school Spanish. The instruction is equivalent to that found in the second semester of High School Spanish I. Students expand their introduction to Spanish through focus on four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; and take frequent assessments where their language progress can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

*Also suitable for students of other ages, depending upon background and experience.

Prerequisites: None

MIDDLE SCHOOL FRENCH 1

This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School French I. Students begin their introduction to French by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various French-speaking countries; and take frequent assessments where their language progress can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

*Middle School French 2

Students continue their language-learning adventure by progressing to this next level of middle school French. The instruction is equivalent to that found in the second semester of High School French I. Students expand their introduction to French through focus on four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension
activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Prerequisite:** K12 Middle School French 1 (or equivalent)

**MIDDLE SCHOOL GERMAN 1**

This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School German I. Students begin their introduction to German by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Prerequisite:** K12 Middle School German 1 (or equivalent)

**MIDDLE SCHOOL LATIN 1**

This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School Latin I. Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where

*Also suitable for students of other ages, depending upon background and experience.*

**Prerequisites:** None
their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

*Also suitable for students of other ages, depending upon background and experience.

**Prerequisites:** None

**MIDDLE SCHOOL LATIN 2**

Students continue their language-learning adventure by progressing to this next level of middle school Latin. The instruction is equivalent to that found in the second semester of High School Latin I. Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various Chinese-speaking countries; and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

*Also suitable for students of other ages, depending upon background and experience.

**Prerequisites:** None

**MIDDLE SCHOOL CHINESE 2**

The instruction is equivalent to that found in the second semester of High School Chinese I. Students begin their introduction to Chinese by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are introduced after the first quarter. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various Chinese-speaking countries; and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

*Also suitable for children of other ages, depending upon background and experience.

**Prerequisite:** K12 Middle School Latin I (or equivalent)

**MIDDLE SCHOOL CHINESE 1**

This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School Chinese I. Students begin their introduction to Chinese by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are introduced after the first quarter. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various Chinese-speaking countries; and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Prerequisite:** K12 Middle School Chinese 1 (or equivalent)

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### ORIENTATION

### WELCOME TO ONLINE LEARNING

Families begin the school year with a Welcome to Online Learning course. The course provides an overview of each curriculum area so students and Learning Coaches can familiarize themselves with the philosophy behind the curriculum methodology and overall course organization. The lessons are interactive and include actual animations or graphics that are used in the courses themselves. By the end of the course, students will be fully prepared to begin their K12 lessons in the online school.
HIGH SCHOOL
We have a number of new courses added to the high school catalog this year. You’ll find these denoted by the “New” designation. We are particularly excited to announce that we are adding to our robust Career Readiness curriculum and launching the new K12 Summit Curriculum for Math and English & Language Arts.

**K12 SUMMIT CURRICULUM**

We will begin to introduce K12’s Summit Curriculum this school year. These new, standards-based courses take our award-winning curriculum to new heights and re-imagines the learning experience for today’s students through rich and engaging course content that links learning to real world experiences and enables students to learn wherever they are on a variety of devices. In addition, each K12 Summit Course has two built-in differentiated instruction paths that optimize the learning experience for students that learn at different paces. The high school courses being introduced this school year are English 9, English 10, Algebra 1, Geometry, and Algebra 2.

**K12 CAREER READINESS**

This year, we are pleased to be adding many additional Career Readiness (CTE) courses to our catalog. These courses are designed to introduce students to a variety of career fields and provide them the opportunity to understand and explore a variety of career paths. The CTE courses being introduced this school year are:

- Introduction to Forestry & Natural Resources
- Agrisciences II
- Introduction to Restaurant Management
- Advertising & Sales Promotion
- Biotechnology: Unlock Nature’s Secrets
- Principles of Public Service: To Serve & Protect
- Health Sciences II
- Business and Healthcare Explorations
- IT and Manufacturing Explorations

In K12 Core courses, topics are broken into discrete modules that are taught in tandem with the framework students need to develop strong study skills. Rich, engaging content with interactive demonstrations and activities help students absorb and retain information.

In K12 Comprehensive courses, students do more extensive writing and research projects, and tackle problems that require more analytical thinking. Course projects and activities also demand more independent thinking and self-discipline than projects in Core courses.

K12 Honors courses hold students to a greater degree of accountability, and demand even greater independence and self-discipline. Students synthesize and evaluate information and concepts from multiple sources and read texts typically assigned in college-level courses. Students also demonstrate college-level writing in essays that require analysis of primary and secondary sources, responsible use of evidence, and comprehensive citation of sources.

K12 AP® courses are college-level courses that follow curriculum specified by the College Board. These courses are designed to prepare students for success on AP Exams, providing students the opportunity to earn credit at most of the nation’s colleges and universities. Our AP courses include a companion AP Exam Review course that provides practice for multiple choice exams and essay writing as well as provides students an individualized study plan based on their results.

**ENG001: ENGLISH FOUNDATIONS I (REMEDICATION)**

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Through carefully paced, guided instruction, and graduated reading levels, students improve reading comprehension and strategies, focusing on literacy development at the critical stage between decoding and making meaning from text. Instruction and practice in writing skills help students develop their composition skills in a variety of formats. If needed, students can continue their remediation of reading and writing skills with English Foundations II.

**Course Length:** Two semesters

**Materials:** None

**Prerequisite:** Teacher/school counselor recommendation
**ENG011: ENGLISH FOUNDATIONS II (REMEDICATION)**

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Struggling readers develop mastery in reading comprehension, vocabulary building, study skills, and media literacy. Students build confidence in writing fundamentals by focusing on composition in a variety of formats, grammar, style, and media literacy.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisite:** Teacher/school counselor recommendation; ENG001: English Foundations I is not required

**ENG108: ENGLISH 9 (NEW)**  
K12 Summit Curriculum

K12’s English 9 Summit course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 9. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations, and participate in discussions with their peers.

**Course Length:** Two semesters  
**Prerequisite:** Literary Analysis and Composition (Grade 8) (or equivalent)

**ENG109: ENGLISH 9 HONORS (NEW)**  
K12 Summit Curriculum

K12’s English 9 Honors Summit course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 9. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations, and participate in discussions with their peers.

This course includes all the topics in ENG108, as well as several extension activities. Each semester also includes an independent honors project.

**Course Length:** Two semesters  
**Materials:** Explorations: An Anthology of Literature, Volume A; English Language Handbook; Vocabulary from Classical Roots, Book B; Julius Caesar  
**Prerequisite:** Middle school English/language arts

**Note:** This course is only for students who are new to the K12 curriculum. Students who have taken K12 Intermediate English A or B, or K12 Middle School Literary Analysis and Composition courses, should not enroll in this course.

**ENG102: LITERARY ANALYSIS AND COMPOSITION I (CORE)**

In this course, students work on their written and oral communication skills, while strengthening their ability to understand and analyze works of both classic and modern literature.

**Literature:** Students read short stories, poetry, drama, novels, essays, and informative articles. The course sharpens reading comprehension skills and engages readers in literary analysis as they consider important human issues and challenging ideas. Students also learn to read for information in nonfiction texts.

**Language Skills:** Students learn to express their ideas effectively. They sharpen their composition skills through focus on writing good paragraphs and essays in a variety of genres such as persuasive and research essays. Students plan, organize, and revise written works in response to feedback on drafts. In grammar, usage, and mechanics lessons, students expand their understanding of parts of speech, phrases and clauses, sentence analysis and structure, agreement, punctuation, and other conventions. Vocabulary lessons build knowledge of Greek and Latin words that form the roots of many English words. Students use word origins and derivations to determine the meaning of new words as they increase their vocabularies.

**Course Length:** Two semesters  
**Materials:** Explorations: An Anthology of Literature, Volume A; English Language Handbook; Vocabulary from Classical Roots, Book B; Julius Caesar

**ENG103: LITERARY ANALYSIS AND COMPOSITION I (COMPREHENSIVE)**

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in a variety of genres.

**Literature:** Students read a broad array of short stories, poetry, drama, novels, autobiographies, essays, and famous
speeches. The course guides students in the close reading and critical analysis of classic works of literature, and helps them appreciate the texts and the contexts in which the works were written. Literary selections range from classic works, such as Shakespeare’s Romeo and Juliet, to contemporary pieces by authors such as Maya Angelou.

Language Skills: Students broaden their composition skills by examining model essays in various genres by student and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities (Skills Updates). Student vocabularies are enhanced through the study of Greek and Latin root words, improving students’ ability to decipher the meanings of new words.

**Course Length:** Two semesters

**Materials:** Classics for Young Readers, Volume 8, English Language Handbook, Level 1; Vocabulary from Classical Roots, Book C; The Narrative of the Life of Frederick Douglass, An American Slave by Frederick Douglass; Anne Frank: Diary of a Young Girl by Anne Frank; Romeo and Juliet by William Shakespeare

**Prerequisites:** K12 Intermediate English A and B (or equivalent) and teacher/school counselor recommendation

*Note: Students who have already succeeded in K12 Middle School Literacy Analysis and Composition should not enroll in this course.*

**ENG104: HONORS LITERARY ANALYSIS AND COMPOSITION I**

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in a variety of genres. Students enrolled in this course work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned.

Literature: Students read a broad array of short stories, poetry, drama, novels, autobiographies, essays, and famous speeches. The course guides students in the close reading and critical analysis of classic works of literature, and helps them appreciate the texts and the contexts in which the works were written. Literary selections range from the Greek tragedy Antigone to Shakespeare’s Romeo and Juliet to contemporary pieces by authors such as Annie Dillard and Maya Angelou.

Language Skills: Students broaden their composition skills by examining model essays in various genres by student and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities. Student vocabularies are enhanced through the study of Greek and Latin root words, improving students’ ability to decipher the meanings of new words.

**Course Length:** Two semesters

**Materials:** Classics for Young Readers, Volume 8, English Language Handbook, Level 1; Vocabulary from Classical Roots, Book C; The Narrative of the Life of Frederick Douglass, An American Slave by Frederick Douglass; Anne Frank: Diary of a Young Girl by Anne Frank; Romeo and Juliet by William Shakespeare

**Prerequisites:** K12 Intermediate English A and B (or equivalent) and teacher/school counselor recommendation

*Note: Students who have already succeeded in K12 Middle School Literacy Analysis and Composition should not enroll in this course.*

**ENG106: LITERARY ANALYSIS AND COMPOSITION I (CREDIT RECOVERY)**

In the course, students read a variety of literary works to sharpen reading comprehension and literary analysis skills. They review composition skills and expand their understanding of parts of speech, phrases and clauses, sentence analysis and structure, agreement, punctuation, and other conventions. Vocabulary lessons build knowledge of Greek and Latin words that form the roots of many English words. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters

**Materials:** Explorations: An Anthology of Literature, Volume A; English Language Handbook; Vocabulary from Classical Roots, Book B; Julius Caesar, The Secret Life of Bees, Romeo and Juliet

**Prerequisites:** Student previously took the course or its equivalent but did not receive credit, and teacher/school counselor recommendation

**ENG208: ENGLISH 10 (NEW)**

K12 Summit Curriculum

K12’s English 10 Summit course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 10. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations, and participate in discussions with their peers.

**Course Length:** Two semesters
Materials: Summit Curriculum English 9–10: Explorations in Literature; Cry, the Beloved Country by Alan Paton; Night by Elie Wiesel; Macbeth by William Shakespeare
Prerequisite: Literary Analysis and Composition I (or equivalent)

ENG209: ENGLISH 10 HONORS (NEW)
K12 Summit Curriculum
K12’s English 10 Honors Summit course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 10. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations, and participate in discussions with their peers.

This course includes all the topics in ENG208, as well as several extension activities. Each semester also includes an independent honors project.

Course Length: Two semesters
Materials: Summit Curriculum English 9–10: Explorations in Literature; Cry, the Beloved Country by Alan Paton; Night by Elie Wiesel; Macbeth by William Shakespeare
Prerequisites: Literary Analysis and Composition I (or equivalent)

ENG202: LITERARY ANALYSIS AND COMPOSITION II (CORE)
In this course, students build on their language skills while reading classic and modern works of literature and improving their writing skills.

Literature: Students read short stories, poetry, drama, and novels, sharpening their reading comprehension skills and analyzing important human issues.

Language Skills: Students continue to work on their oral and written expression skills, writing a variety of essays, including persuasive and research essays. Students plan, organize, and revise their essays in response to feedback. They build on their skills in grammar, usage, and mechanics by studying parts of speech, phrases and clauses, sentence analysis and structure, agreement, punctuation, and other conventions. Thematic units focus on word roots, suffixes and prefixes, context clues, and other strategies to help students strengthen their vocabularies.

Course Length: Two semesters
Materials: Journeys in Literature: Classic and Modern, Volume B; Vocabulary for Achievement, Fourth Course; Macbeth by William Shakespeare; Our Town
Prerequisites: ENG102: Literary Analysis and Composition I (or equivalent)

ENG203: LITERARY ANALYSIS AND COMPOSITION II (COMPREHENSIVE)
In this course, students build on existing literature and composition skills and move to higher levels of sophistication.

Literature: Students hone their skills of literary analysis by reading short stories, poetry, drama, novels, and works of both classic and modern nonfiction. Authors include W. B. Yeats, Sara Teasdale, Langston Hughes, Robert Frost, Edgar Allan Poe, Nathaniel Hawthorne, Kate Chopin, Amy Tan, and Richard Rodriguez. Students read Shakespeare’s Macbeth. They are offered a choice of novels and longer works to study, including works by Jane Austen, Charles Dickens, Elie Wiesel, and many others.

Language Skills: In this course, students become more proficient writers and readers. In composition lessons, students analyze model essays from readers’ and writers’ perspectives, focusing on ideas and content, structure and organization, style, word choice, and tone. Students receive feedback during the writing process to help them work toward a polished final draft. In addition to writing formal essays, resumes, and business letters, students write and deliver a persuasive speech. Students expand their knowledge of grammar, usage, and mechanics through sentence analysis and structure, syntax, agreement, and conventions. Unit pretests identify skills to address more fully. Students strengthen their vocabularies through thematic units focused on word roots, suffixes and prefixes, context clues, and other important vocabulary-building strategies.

Course Length: Two semesters
Materials: Journeys in Literature: Classic and Modern, Volume B; Vocabulary for Achievement, Fourth Course; Macbeth by William Shakespeare; Our Town
Prerequisites: ENG103: Literary Analysis and Composition I (or equivalent)

ENG204: HONORS LITERARY ANALYSIS AND COMPOSITION II
In this course, students build on existing literature and composition skills and move on to higher levels of sophistication. Students work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned.

Literature: Students hone their skills of literary analysis by reading short stories, poetry, drama, novels, and works of
both classic and modern nonfiction. Authors include W. B. Yeats, Sara Teasdale, Langston Hughes, Robert Frost, Edgar Allan Poe, Nathaniel Hawthorne, Kate Chopin, Amy Tan, Richard Rodriguez, and William Shakespeare. Students have a choice of novels and longer works to study, including works by Jane Austen, Charles Dickens, and Elie Wiesel.

Language Skills: In this course, students become more proficient writers and readers. In composition lessons, students analyze model essays from readers’ and writers’ perspectives, focusing on ideas and content, structure and organization, style, word choice, and tone. Students receive feedback during the writing process to help them work toward a polished final draft. In addition to writing formal essays, résumés, and business letters, students write and deliver a persuasive speech. Students expand their knowledge of grammar, usage, and mechanics through sentence analysis and structure, syntax, agreement, and conventions. Unit pretests identify skills to address more fully. Students strengthen their vocabularies through thematic units focused on word roots, suffixes and prefixes, context clues, and other important vocabulary-building strategies.

Course Length: Two semesters

Materials: Journeys in Literature: Classic and Modern, Volume B; Vocabulary for Achievement, Fourth Course; Macbeth by William Shakespeare; Our Town by Thornton Wilder

Prerequisites: ENG104: Honors Literary Analysis and Composition I (or equivalent) and teacher/school counselor recommendation

ENG206: LITERARY ANALYSIS AND COMPOSITION II (CREDIT RECOVERY)

In this course, students read classic and modern works of literature, sharpening their reading comprehension skills and analyzing important human issues. They review effective strategies for oral and written expression, grammar, usage, and mechanics. Thematic units focus on word roots, suffixes and prefixes, context clues, and other strategies that help students strengthen their vocabularies. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Explorations: An Anthology of Literature, Volume B; The Miracle Worker by William Gibson

Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

ENG302: AMERICAN LITERATURE (CORE)

In this genre-based course, students sharpen their reading comprehension skills and analyze important themes in classic and modern works of American literature, including short stories, poetry, drama, and novels. Students refine their skills of written expression by writing memoirs, persuasive essays, research essays, workplace documentation, and more. They develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.

Literature: Students read short stories, poetry, drama, and novels, sharpening their reading comprehension skills and analyzing important themes in American literature.

Language Skills: Students continue to work on their oral and written expression skills, writing a variety of essays, including memoirs, persuasive and research essays, and workplace documentation. Students plan, organize, and revise their essays in response to feedback.

Course Length: Two semesters

Materials: Explorations: An Anthology of American Literature, Volume C; To Kill a Mockingbird by Harper Lee

Prerequisite: ENG202: Literary Analysis and Composition II (or equivalent)

ENG303: AMERICAN LITERATURE (COMPREHENSIVE)

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.

Course Length: Two semesters

Materials: Journeys in Literature: American Traditions, Volume C; The Great Gatsby by F. Scott Fitzgerald; The Glass Menagerie by Tennessee Williams. Students will also read one selection of their choice from the following (not supplied): The Old Man and the Sea by Ernest Hemingway; The House on Mango Street by Sandra Cisneros; A Lesson Before Dying by Ernest Gaines; The Red Badge of Courage by Stephen Crane

Prerequisite: ENG203: Literary Analysis and Composition II (or equivalent)

ENG304: HONORS AMERICAN LITERATURE

In this course, students read and analyze works of American literature from colonial to contemporary times, including
poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. Students enrolled in this challenging course will also complete independent projects that deepen their understanding of the themes and ideas presented in the curriculum.

Course Length: Two semesters

Materials: *Journeys in Literature: American Traditions*, Volume C; *The Great Gatsby* by F. Scott Fitzgerald; *The Glass Menagerie* by Tennessee Williams. Students will also read one selection of their choice from the following (not supplied): *The Old Man and the Sea* by Ernest Hemingway; *The House on Mango Street* by Sandra Cisneros; *A Lesson Before Dying* by Ernest Gaines; *The Red Badge of Courage* by Stephen Crane; and two selections of their choice from the following: *Billy Budd* by Herman Melville; *A Connecticut Yankee in King Arthur’s Court* by Mark Twain; *Catcher in the Rye* by J.D. Salinger; *Song of Solomon* by Toni Morrison

Prerequisites: ENG204: Honors Literary Analysis and Composition II (or equivalent) and teacher/school counselor recommendation

**ENG306: AMERICAN LITERATURE (CREDIT RECOVERY)**

Students sharpen their reading comprehension skills and analyze important themes in classic and modern works of American literature. They review effective strategies for written expression. They develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: *Explorations: An Anthology of American Literature*, Volume C; *Our Town* by Thornton Wilder; *To Kill a Mockingbird* by Harper Lee

Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**ENG402: BRITISH AND WORLD LITERATURE (CORE)**

This course engages students in selections from British and world literature from the ancient world through modern times. They practice analytical writing and have opportunities for creative expression. Students also practice test-taking skills for standardized assessments in critical reading and writing.

Course Length: Two semesters

Materials: *Journeys in Literature: British and World Classics*; *Hamlet* by William Shakespeare

Prerequisites: ENG204: Honors Literary Analysis and Composition II (or equivalent) or ENG304: Honors American Literature (or equivalent); and teacher/school counselor recommendation

**ENG403: BRITISH AND WORLD LITERATURE (COMPREHENSIVE)**

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students complete guided and independent writing assignments that refine their analytical skills. They have opportunities for creative expression in projects of their choice. Students also practice test-taking skills for standardized assessments in critical reading and writing.

Course Length: Two semesters

Materials: *Journeys in Literature: British and World Classics*; *Hamlet* by William Shakespeare

Prerequisite: ENG303: American Literature (or equivalent)

**ENG404: HONORS BRITISH AND WORLD LITERATURE**

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students work independently on many of their analyses and engage in creative collaboration with their peers. Students also practice test-taking skills for standardized assessments in critical reading and writing.

Course Length: Two semesters

Materials: *Journeys in Literature: British and World Classics*; *Hamlet* by William Shakespeare

Prerequisites: ENG204: Honors Literary Analysis and Composition II (or equivalent) or ENG304: Honors American Literature (or equivalent); and teacher/school counselor recommendation

**ENG406: BRITISH AND WORLD LITERATURE (CREDIT RECOVERY)**

This course engages students in selections from British and world literature from the ancient world through modern times. They practice analytical writing and have opportunities for creative expression. Students also practice test-taking skills for standardized assessments in critical reading and writing. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.
**ENG500: AP ENGLISH LANGUAGE AND COMPOSITION**

Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn composition style and process, starting with exploration, planning, and writing. This continues with editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and professional contexts. In this equivalent of an introductory college-level survey class, students prepare for the AP Exam and for further study in communications, creative writing, journalism, literature, and composition.

**Course Length:** Two semesters  
**Materials:** *Explorations: An Anthology of British and World Literature*  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

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**ENG010: JOURNALISM (ELECTIVE)**

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

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**ENG020: PUBLIC SPEAKING (ELECTIVE)**

Students create original essays, poems, and short stories in this course which focuses on the four-step process writing model. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety.

**Course Length:** One semester  
**Materials:** Student must provide a webcam and recording software  
**Prerequisites:** None

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**ENG030: CREATIVE WRITING (ELECTIVE)**

Students create original essays, poems, and short stories in this course which focuses on the four-step process writing model. They read professionally written forms of creative writing as models and then integrate their impressions of these works with their personal life experiences as they compose their own writing projects. Students are encouraged to write about topics they find engaging as they practice writing on the following themes: narration, definition, process analysis, cause and effect, and comparison/contrast. After students turn in each assignment, the teacher supplies
detailed suggestions for revision. This feedback helps students learn how to improve their self-expression and self-editing skills.

**Course Length:** Two semesters
**Materials:** None
**Prerequisites:** None

**OTH036: GOTHIC LITERATURE (ELECTIVE)**

Since the eighteenth century, Gothic tales have influenced fiction writers and fascinated readers. This course focuses on the major themes found in Gothic literature and demonstrates how the core writing drivers produce a suspenseful environment for readers. It presents some of the recurring themes and elements found in the genre. As they complete the course, students gain an understanding of and an appreciation for the complex nature of Gothic literature.

**Course Length:** One semester
**Materials:** None
**Prerequisites:** None

**MTH001: MATH FOUNDATIONS I (REMEDICATION)**

Students build and reinforce foundational math skills typically found in third through fifth grade for which they have not achieved mastery. They progress through carefully paced, guided instruction and engaging interactive practice. If needed, students can move on to Math Foundations II (addressing skills typically found in sixth through eighth grade) to further develop the computational skills and conceptual understanding needed to undertake high school math courses with confidence.

**Course Length:** Two semesters
**Materials:** None
**Prerequisite:** Teacher/school counselor recommendation

**MTH011: MATH FOUNDATIONS II (REMEDICATION)**

Students build and reinforce foundational math skills typically found in sixth through eighth grade, achieving the computational skills and conceptual understanding needed to undertake high school math courses with confidence. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. This course is appropriate for use as remediation at the high school level or as a bridge to high school.

**Course Length:** Two semesters
**Materials:** None
**Prerequisite:** Teacher/school counselor recommendation; MTH001: Math Foundations I is not required

**MTH322: CONSUMER MATH (CORE)**

In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slideshows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher.

**Course Length:** Two semesters
**Materials:** None

**MTH112: PRE-ALGEBRA (CORE)**

In this course, students learn computational and problem-solving skills and the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem, and explain strategies for solving real-world problems. The textbook provides students with a ready reference and explanations that supplement the online material. Online lessons provide demonstrations of concepts, as well as interactive problems with contextual feedback.

**Course Length:** Two semesters
**Materials:** Pre-Algebra: A Reference Guide and Problem Sets
**Prerequisite:** K12 Middle School Fundamentals of Geometry and Algebra, or MTH011-APL: Math Foundations II (or equivalents)
Note: Students who have already succeeded in K12 Middle School Pre-Algebra or Intermediate Mathematics C should not enroll in this course.

**MTH113: PRE-ALGEBRA (COMPREHENSIVE)**

In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems. Online lessons provide demonstrations of key concepts as well as interactive problems with contextual feedback. A textbook supplements the online material.

**Course Length:** Two semesters

**Materials:** Pre-Algebra: A Reference Guide and Problem Sets

**Prerequisite:** K12 Middle School Fundamentals of Geometry and Algebra (or equivalent)

Note: Students who have already succeeded in K12 Middle School Pre-Algebra or Intermediate Mathematics C should not enroll in this course.

**MTH116: PRE-ALGEBRA (CREDIT RECOVERY)**

In this course, students review computational and problem-solving skills and the language of algebra. Topics include mathematical expressions, geometric figures; percentages, ratios, and proportions; graphs for equations and inequalities; statistical measures and probabilities; the Pythagorean theorem; and strategies for solving world problems. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters

**Materials:** Pre-Algebra: A Reference Guide and Problem Sets

**Prerequisites:** Student previously took the course or its equivalent but did not receive credit, and teacher/school counselor recommendation

**MTH107: DEVELOPMENTAL ALGEBRA (CORE)**

This is the first course in a two-year algebra sequence that concludes with Continuing Algebra. In this course, students begin to explore the tools and principles of algebra. Students learn to identify the structure and properties of the real number system; complete operations with integers and other rational numbers; work with square roots and irrational numbers; graph linear equations; solve linear equations and inequalities in one variable; and solve systems of linear equations. Sophisticated virtual manipulatives and online graphing tools help students visualize algebraic relationships. Developmental Algebra covers fewer topics than a one-year algebra course, providing students with more time to learn and practice key concepts and skills. After completing Developmental Algebra, students will be prepared to take Continuing Algebra.

**Course Length:** Two semesters

**Materials:** Algebra I: A Reference Guide and Problem Sets

**Prerequisite:** MTH112: Pre-Algebra (or equivalent)

**MTH207: CONTINUING ALGEBRA (CORE)**

This is the second course in a two-year algebra sequence. In this course, students build on what they learned in Developmental Algebra to complete their knowledge of all topics associated with a deep understanding of Algebra I. They learn about relations and functions, radicals and radical expressions, polynomials and their graphs, factoring expressions and using factoring to solve equations, solving quadratics, rational expressions, and logic and reasoning.

**Course Length:** Two semesters

**Materials:** Algebra I: A Reference Guide and Problem Sets

**Prerequisites:** MTH107: Developmental Algebra (or equivalent)

**MTH128: ALGEBRA 1 (NEW)**

K12 Summit Curriculum

K12’s Algebra 1 Summit course is intended to formalize and extend the mathematics that students learned in the middle grades. Because it is built to follow revised middle school math courses, the course covers slightly different ground than previous versions of algebra. In this course, students deepen their understanding of linear and exponential relationships by contrasting them with each other. Students also apply linear models to data that exhibit a linear trend. The course also covers analyzing, solving, and using quadratic functions.

**Course Length:** Two semesters

**Materials:** Summit Curriculum Algebra 1 Reference Guide

**Prerequisites:** K12 Intermediate Mathematics C (or equivalent)
MTH129: ALGEBRA 1 HONORS (NEW)  
K12 Summit Curriculum

K12’s Algebra 1 Honors Summit course is intended to formalize and extend the mathematics that students learned in the middle grades. Because it is built to follow revised middle school math courses, the course covers slightly different ground than previous versions of algebra. In this course, students deepen their understanding of linear and exponential relationships by contrasting them with each other. Students also apply linear models to data that exhibit a linear trend. The course also covers analyzing, solving, and using quadratic functions.

This course includes all the topics in MTH128, as well as several extension activities. Each semester also includes an independent honors project.

Course Length: Two semesters
Materials: Summit Curriculum Algebra 1 Reference Guide
Prerequisites: K12 Pre-Algebra, MTH113: Pre-Algebra (or equivalent)

Note: Students who have already succeeded in K12 Middle School Algebra I should not enroll in this course.

MTH122: ALGEBRA I (CORE)

In this course, students explore the tools of algebra. Students learn to identify the structure and properties of the real number system; complete operations with integers and other rational numbers; work with square roots and irrational numbers; graph linear equations; solve linear equations and inequalities in one variable; solve systems of linear equations; use ratios, proportions, and percentages to solve problems; use algebraic applications in geometry, including the Pythagorean theorem and formulas for measuring area and volume; complete an introduction to polynomials; and understand logic and reasoning.

Course Length: Two semesters
Materials: Algebra I: A Reference Guide and Problem Sets
Prerequisite: MTH112: Pre-Algebra (or equivalent)

Note: Students who have already succeeded in K12 Middle School Algebra I should not enroll in this course.

MTH123: ALGEBRA I (COMPREHENSIVE)

Students develop algebraic fluency by learning the skills needed to solve equations and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Topics include simplifying expressions involving variables, fractions, exponents, and radicals; working with integers, rational numbers, and irrational numbers; graphing and solving equations and inequalities; using factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulating valid mathematical arguments using various types of reasoning; and translating word problems into mathematical equations and then using the equations to solve the original problems. Compared to MTH122, this course has a more rigorous pace and more challenging assignments and assessments. It covers additional topics, including translating functions, higher degree roots, and more complex factoring techniques.

Course Length: Two semesters
Materials: Algebra I: A Reference Guide and Problem Sets
Prerequisites: K12 Pre-Algebra, MTH113: Pre-Algebra (or equivalent)

Note: Students who have already succeeded in K12 Middle School Algebra I should not enroll in this course.

MTH124: HONORS ALGEBRA I

This course prepares students for more advanced courses while they develop algebraic fluency, learn the skills needed to solve equations, and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Topics include simplifying expressions involving variables, fractions, exponents, and radicals; working with integers, rational numbers, and irrational numbers; graphing and solving equations and inequalities; using factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulating valid mathematical arguments using various types of reasoning; and translating word problems into mathematical equations and then using the equations to solve the original problems. This course includes all the topics in MTH123, but includes more challenging assignments and optional challenge activities. Each semester also includes an independent honors project.

Course Length: Two semesters
Materials: Algebra I: A Reference Guide and Problem Sets
Prerequisites: Success in previous math course and teacher/school counselor recommendation

Note: Students who have already succeeded in K12 Middle School Algebra I should not enroll in this course.

MTH126: ALGEBRA I (CREDIT RECOVERY)

In this course, students review the tools of algebra. Topics include the structure and properties of real numbers; operations with integers and other rational numbers; square roots and irrational numbers; linear equations; ratios, proportions, and percentages; the Pythagorean theorem; polynomials; and logic and reasoning. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters
Materials: *Algebra I: A Reference Guide and Problem Sets*

Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**MTH148: INTEGRATED MATHEMATICS I**

This first-year high school integrated math course focuses on linear and simple exponential models. The course contrasts linear behavior with exponential behavior, and uses both linear and simple exponential equations as models. Students learn about and work extensively with functions—analyzing function properties and behavior, creating new functions from known functions, and applying functions to various continuous and discrete situations. The statistics in the course focus on modeling. Topics in geometry include constructions, transformations, similarity, and congruence, and students use the Pythagorean theorem in analytic geometry contexts.

Course Length: Two semesters


Prerequisite: K12 Intermediate Mathematics C or MTH113: Pre-Algebra (or equivalent)

**MTH146-AVT: INTEGRATED MATHEMATICS I (CREDIT RECOVERY) (NEW)**

This credit recovery math course focuses on linear and simple exponential models. The course contrasts linear behavior with exponential behavior, and it uses both linear and simple exponential equations as models. Students learn about and work extensively with functions—analyzing function properties and behavior, creating new functions from known functions, and applying functions to various continuous and discrete situations. The statistics in the course focus on modeling. Topics in geometry include constructions, transformations, similarity, and congruence, and students use the Pythagorean theorem in analytic geometry contexts.

Because the course is designed specifically for credit recovery, the content is appropriately grouped into smaller topics to increase retention and expand opportunities for assessment. Students take diagnostic tests at regular intervals to assess their current knowledge of fundamental content.

Course Length: Two semesters


Prerequisite: MTH148: Integrated Mathematics I or its equivalent but did not receive credit; teacher/school counselor recommendation

**MTH208: GEOMETRY (NEW)**

K12 Summit Curriculum

K12’s Geometry Summit course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students’ ability to explain geometric relationships, moving toward formal mathematical arguments. Specific topics include similarity and congruence, analytic geometry, circles, the Pythagorean theorem, right triangle trigonometry, analysis of three-dimensional objects, conic sections, and geometric modeling.

Course Length: Two semesters

Materials: *Summit Curriculum Geometry Reference Guide*

Prerequisite: Algebra 1 (or equivalent)

**MTH209: GEOMETRY HONORS (NEW)**

K12 Summit Curriculum

K12’s Geometry Honors Summit course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students’ ability to explain geometric relationships, moving toward formal mathematical arguments. Specific topics include similarity and congruence, analytic geometry, circles, the Pythagorean theorem, right triangle trigonometry, analysis of three-dimensional objects, conic sections, and geometric modeling.

This course includes all the topics in MTH208, as well as several extension activities. Each semester also includes an independent honors project.

Course Length: Two semesters

Materials: *Summit Curriculum Geometry Reference Guide*

Prerequisite: Algebra 1 (or equivalent)

**MTH202: GEOMETRY (CORE)**

Students learn to recognize and work with core geometric concepts in various contexts. They develop sound ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry, as well as a solid, basic understanding of mathematical structure, method, and applications of Euclidean plane and solid geometry.

Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; and the use of transformations.

Course Length: Two semesters

Materials: *Geometry: A Reference Guide; a drawing compass, protractor, and ruler*

Prerequisite: MTH122: Algebra I (or equivalent)
MTH203: GEOMETRY (COMPREHENSIVE)

In this comprehensive course, students are challenged to recognize and work with geometric concepts in various contexts. They build on ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry. They develop deeper understandings of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries.

Course Length: Two semesters
Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler
Prerequisite: MTH123: Algebra I (or equivalent)

MTH204: HONORS GEOMETRY

Students work with advanced geometric concepts in various contexts. They build in-depth ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry. They also develop a sophisticated understanding of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries. Students work on additional challenging assignments, assessments, and research projects.

Course Length: Two semesters
Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler
Prerequisites: MTH123: Algebra I or MTH124: Honors Algebra I (or equivalent), and teacher/school counselor recommendation

MTH206: GEOMETRY (CREDIT RECOVERY)

Students review core geometric concepts as they develop sound ideas of inductive and deductive reasoning, logic, concepts, and techniques and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics include points, lines, and angles; triangles, polygons, and circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; and the use of transformations. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters
Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

MTH248: INTEGRATED MATHEMATICS II

Integrated Mathematics II, a second-year high school math course, focuses on extending the number system to include irrational and complex numbers, as well as computation with quadratic polynomials. The course continues with quadratic expressions, equations, and functions, including making comparisons to their linear and exponential counterparts, covered in MTH148: Integrated Mathematics I. The course also introduces conditional probability as a way to make better decisions when given limited information. Geometry topics include similarity, right triangle trigonometry, and volume. Students use the tools of analytic geometry, synthesizing algebra and geometry concepts, to describe circles and parabolas in the coordinate plane.

Course Length: Two semesters
Prerequisite: MTH148: Integrated Mathematics I (or equivalent)

MTH246-AVT: INTEGRATED MATHEMATICS II (CREDIT RECOVERY) (NEW)

This credit recovery math course focuses on extending the number system to include irrational and complex numbers, as well as computation with quadratic polynomials. The course continues with quadratic expressions, equations, and functions, including making comparisons to their linear and exponential counterparts, covered in MTH148: Integrated Mathematics I. The course also introduces conditional probability as a way to make better decisions when given limited information. Geometry topics include similarity, right triangle trigonometry, and volume. Students use the tools of analytic geometry, synthesizing algebra and geometry concepts, to describe circles and parabolas in the coordinate plane.

Because the course is designed specifically for credit recovery, the content is appropriately grouped into smaller topics to increase retention and expand opportunities for assessment.
Students take diagnostic tests at regular intervals to assess their current knowledge of fundamental content.

Course Length: Two semesters


Prerequisites: MTH148: Integrated Mathematics I and student previously took MTH248: Integrated Mathematics II or its equivalent but did not receive credit; teacher/school counselor recommendation

MTH302: ALGEBRA II (CORE)

This course builds upon algebraic concepts covered in Algebra I. Students solve open-ended problems and learn to think critically. Topics include conic sections, functions and their graphs; quadratic functions, inverse functions, and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis.

Course Length: Two semesters

Materials: Algebra II: A Reference Guide and Problem Sets; Texas Instruments T1-84 Plus graphing calculator is recommended

Prerequisites: MTH122: Algebra I and MTH202: Geometry (or equivalent)

MTH308: ALGEBRA 2 (NEW)

This course builds upon algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving open-ended problems and thinking critically. Topics include conic sections, functions and their graphs; quadratic functions, inverse functions, and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis techniques.

Course Length: Two semesters

Materials: Summit Curriculum Algebra 2 Reference Guide

Prerequisite: Algebra I and Geometry (or equivalent)

MTH304: HONORS ALGEBRA II

This course builds upon advanced algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving open-ended problems and thinking critically. Topics include functions and their graphs; quadratic functions; complex numbers, and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; probability, statistics; and conic sections. Students work on additional challenging assignments, assessments, and research projects.

Course Length: Two semesters

Materials: Algebra II: A Reference Guide and Problem Sets; Texas Instruments T1-84 Plus graphing calculator is recommended

Prerequisites: MTH123 or MTH124: Honors Algebra I and MTH203 or MTH204: Honors Geometry (or equivalents); and teacher/school counselor recommendation
**MTH306: ALGEBRA II (CREDIT RECOVERY)**

This course builds upon algebraic concepts covered in Algebra I. Students solve open-ended problems and learn to think critically. Topics include conic sections; functions and their graphs; quadratic functions; inverse functions; and advanced polynomial functions. Students review rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters

**Materials:** *Algebra II: A Reference Guide and Problem Sets; Texas Instruments TI-84 Plus graphing calculator is recommended*

**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**MTH307: PRACTICAL MATH (CORE)**

In this course, students use math to solve real-world problems—and real-world problems to solidify their understanding of key mathematical topics. Data analysis, math modeling, and personal finance are key themes in this course. Specific topics of study include statistics, probability, graphs of statistical data, regression, finance, and budgeting. In addition, students learn how to use several mathematical models involving algebra and geometry to solve problems. Proficiency is measured through frequent online and offline assessments, as well as class participation. Units focused on projects also allow students to apply and extend their math skills in real-world cases.

**Course Length:** Two semesters

**Materials:** *Practical Math: A Reference Guide and Problem Sets*

**Prerequisites:** Algebra I and Geometry

**MTH348: INTEGRATED MATHEMATICS III**

In this third-year high school math course, students encounter unified instruction reviewing and expanding all previous high school math topics. First, they extend their work on polynomials beyond quadratics to graphing, problem solving, and working with rational expressions. Next, they use statistical and probability tools, such as the standard normal distribution, to understand data. Students make inferences using simulations, experiments, and surveys. In geometry, they extend trigonometric concepts to general triangles and use trigonometric functions to model periodic processes. Finally, students substantially use mathematical modeling by making use of well-developed skills with various mathematical tools.

**Course Length:** Two semesters

**Materials:** *Integrated Mathematics III: A Reference Guide and Problem Sets*

**Prerequisite:** MTH248: Integrated Mathematics II (or equivalent)

**MTH346-AVT: INTEGRATED MATHEMATICS III (CREDIT RECOVERY) (NEW)**

In this credit recovery math course, students encounter unified instruction reviewing and expanding all previous high school math topics. First, they extend their work on polynomials beyond quadratics to graphing, problem solving, and working with rational expressions. Next, they use statistical and probability tools, such as the standard normal distribution, to understand data. Students make inferences using simulations, experiments, and surveys. In geometry, they extend trigonometric concepts to general triangles and use trigonometric functions to model periodic processes. Finally, students substantially use mathematical modeling by making use of well-developed skills with various mathematical tools.

Because the course is designed specifically for credit recovery, the content is appropriately grouped into smaller topics to increase retention and expand opportunities for assessment. Students take diagnostic tests at regular intervals to assess their current knowledge of fundamental content.

**Course Length:** Two semesters

**Materials:** *Integrated Mathematics III: A Reference Guide and Problem Sets*

**Prerequisites:** MTH248: Integrated Mathematics II and student previously took the MTH348: Integrated Mathematics III or its equivalent but did not receive credit; teacher/school counselor recommendation

**MTH403: PRE-CALCULUS/TRIGONOMETRY (COMPREHENSIVE)**

Pre-calculus weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections in the first semester. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and
sine, polar functions and notation, and arithmetic of complex numbers. Cross-curricular connections are made throughout the course to calculus, art, history, and a variety of other fields related to mathematics.

**Course Length:** Two semesters

**Materials:** Texas Instruments T1-84 Plus graphing calculator is recommended

**Prerequisites:** MTH203: Geometry and MTH303: Algebra II (or equivalents)

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**MTH413: PROBABILITY AND STATISTICS (COMPREHENSIVE)**

Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. Proficiency is measured through frequent online and offline assessments, as well as asynchronous discussions. Problem-solving activities provide an opportunity for students to demonstrate their skills in real world situations.

**Course Length:** One semester

**Prerequisite:** MTH 302: Algebra II (or equivalent)

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**MTH433: CALCULUS (COMPREHENSIVE)**

This course provides a comprehensive survey of differential and integral calculus concepts, including limits, derivative and integral computation, linearization, Riemann sums, the fundamental theorem of calculus, and differential equations. Content is presented across ten units and covers various applications, including graph analysis, linear motion, average value, area, volume, and growth and decay models. In this course students use an online textbook, which supplements the instruction they receive and provides additional opportunities to practice using the content they’ve learned. Students will use an embedded graphing calculator applet (GCalc) for their work on this course; the software for the applet can be downloaded at no charge.

**Course Length:** Two semesters

**Materials:** Java is needed for the embedded graphing calculator applet (GCalc)

**Prerequisite:** MTH403: Pre-Calculus/Trigonometry (or equivalent)

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**MTH500: AP CALCULUS AB**

This course is the equivalent of an introductory college-level calculus course. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Students learn to evaluate the soundness of proposed solutions and apply mathematical reasoning to real-world models. Students also learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for the AP Exam and further studies in science, engineering, and mathematics.

**Course Length:** Two semesters

**Materials:** *Calculus of a Single Variable*, AP Edition (9th ed.), Larson, Ron, and Bruce H. Edwards; Texas Instruments T1-84 Plus graphing calculator is recommended

**Prerequisites:** MTH204: Honors Geometry, MTH304: Honors Algebra II, MTH403: Pre-Calculus/Trigonometry (or equivalents), and teacher/school counselor recommendation

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**MTH510: AP STATISTICS**

This course is the equivalent of an introductory college-level course. Statistics—the art of drawing conclusions from imperfect data and the science of real-world uncertainties—plays an important role in many fields. Students collect, analyze, graph, and interpret real-world data. They learn to design and analyze research studies by reviewing and evaluating examples from real research. Students prepare for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography, and business.

**Course Length:** Two semesters

**Materials:** Texas Instruments T1-84 Plus graphing calculator is recommended

**Prerequisites:** MTH304: Honors Algebra II (or equivalent) and teacher/school counselor recommendation

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**MTH520: AP CALCULUS BC**

This course is the equivalent of an introductory college-level calculus course. In this course, students study functions, limits, derivatives, integrals, and infinite series. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Students learn to evaluate the soundness of proposed solutions and apply mathematical reasoning to real-world models. Students also learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for the AP Exam and further studies in science, engineering, and mathematics.

**Course Length:** Two semesters

**Materials:** *Calculus of a Single Variable*, AP Edition (9th ed.), Larson, Ron, and Bruce H. Edwards; Texas Instruments T1-84 Plus graphing calculator is recommended
Prerequisites: MTH204: Honors Geometry, MTH304: Honors Algebra II, MTH403: Pre-Calculus/Trigonometry (or equivalents), and teacher/school counselor recommendation

**SCI102: PHYSICAL SCIENCE (CORE)**

Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. Students develop skills in measuring, solving problems, using laboratory apparatuses, following safety procedures, and adhering to experimental procedures. Students focus on inquiry-based learning, with both hands-on laboratory investigations and virtual laboratory experiences.

**Course Length:** Two semesters

**Materials:** Physical Science: A Laboratory Guide

**Prerequisite:** K12 Middle School Physical Science (or equivalent)

**SCI106: PHYSICAL SCIENCE (CREDIT RECOVERY)**

Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. They review strategies for describing and measuring scientific concepts. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters

**Materials:** None

**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**SCI112: EARTH SCIENCE (CORE)**

This course provides students with a solid earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course provides a base for further studies in geology, meteorology, oceanography, and astronomy, and gives practical experience in implementing scientific methods.

**Course Length:** Two semesters

**Materials:** Earth Science: A Reference Guide

**Prerequisite:** K12 Middle School Life Science (or equivalent)

**SCI113: EARTH SCIENCE (COMPREHENSIVE)**

This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of in-depth online lessons, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course prepares students for further studies in geology, meteorology, oceanography, and astronomy courses, and gives them practical experience in implementing scientific methods.

**Course Length:** Two semesters

**Materials:** Earth Science: A Reference Guide

**Prerequisite:** K12 Middle School Life Science (or equivalent)

**SCI114: HONORS EARTH SCIENCE**

This challenging course provides students with an honors-level earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, collaborative activities, and hands-on laboratories students can conduct at home. The course prepares students for advanced studies in geology, meteorology, oceanography, and astronomy courses, and gives them more sophisticated experience in implementing scientific methods. Additional honors assignments include debates, research papers, extended collaborative laboratories, and virtual laboratories.

**Course Length:** Two semesters

**Materials:** Earth Science: A Reference Guide

**Prerequisites:** K12 Middle School Life Science (or equivalent), success in previous science course; and teacher/school counselor recommendation

**SCI116: EARTH SCIENCE (CREDIT RECOVERY)**

This course provides students with a solid earth science curriculum. Students learn how the earth works, how it changes, and its place in the universe. They become familiar with the terminology, concepts, and practical applications of earth science and explore topics in geology, meteorology, oceanography, astronomy, and scientific methods. Diagnostic
Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters

**Materials:** *Earth Science: A Reference Guide*

**Prerequisite:** Student previously took the course or its equivalent but did not receive credit, and teacher/school counselor recommendation

**SCI202: BIOLOGY (CORE)**

In this course, students focus on the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of online lessons, including extensive animations, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratory experiments students can conduct at home.

**Course Length:** Two semesters

**Materials:** *Biology: A Reference Guide*

**Prerequisite:** K12 Middle School Life Science (or equivalent)

**SCI203: BIOLOGY (COMPREHENSIVE)**

In this comprehensive course, students investigate the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of in-depth online lessons, including extensive animations, an associated reference book, collaborative explorations, virtual laboratories, and hands-on laboratory experiments students can conduct at home.

**Course Length:** Two semesters

**Materials:** *Biology: A Reference Guide*

**Prerequisites:** K12 Middle School Life Science (or equivalent)

**SCI204: HONORS BIOLOGY**

This course provides students with a challenging honors-level biology curriculum, focusing on the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of advanced online lessons, including extensive animations, an associated reference book, collaborative explorations, and hands-on laboratory experiments students can conduct at home. Honors activities include debates, research papers, extended collaborative laboratories, and virtual laboratories.

**Course Length:** Two semesters

**Materials:** *Biology: A Reference Guide*

**Prerequisites:** K12 Middle School Life Science (or equivalent), success in previous science course, and teacher/school counselor recommendation

**SCI206: BIOLOGY (CREDIT RECOVERY)**

Topics include the scientific method, characteristics of living things, energy, organic compounds, and water. Students review the structure and function of living things, the cell, genetics, DNA, RNA, and proteins. They review evolution and natural selection, digestive, respiratory, nervous, reproductive, and muscular systems; and ecology and the environment.

Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters

**Materials:** *Biology: A Reference Guide*

**Prerequisites:** Student previously took the course or its equivalent but did not receive credit, and teacher/school counselor recommendation

**SCI302: CHEMISTRY (CORE)**

This course surveys all key areas of chemistry, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual laboratories, and related assessments, used with a problem-solving book.

**Course Length:** Two semesters

**Materials:** *Chemistry: Problems and Solutions*

**Prerequisites:** K12 Middle School Physical Science or SCI102: Physical Science and satisfactory grasp of algebra basics, evidenced by success in MTH122: Algebra I (or equivalent)

**SCI303: CHEMISTRY (COMPREHENSIVE)**

This comprehensive course gives students a solid basis to move on to future studies. The course provides an in-depth survey of all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual laboratories, and related assessments, used with a problem-solving book.

**Course Length:** Two semesters

**Materials:** *Chemistry: Problems and Solutions*

**Prerequisites:** Satisfactory completion of either K12 Middle School Physical Science or SCI102: Physical Science and solid grasp of algebra basics, evidenced by success in MTH122: Algebra I (or equivalents)
SCI304: HONORS CHEMISTRY

This advanced course gives students a solid basis to move on to more advanced courses. The challenging course surveys all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry, enhanced with challenging model problems and assessments. Students complete community-based written research projects, treat aspects of chemistry that require individual research and reporting, and participate in online threaded discussions.

Course Length: Two semesters

Materials: Chemistry: Problems and Solutions

Prerequisites: Success in previous science course, MTH123 or MTH124: Honors Algebra I (or equivalents); and teacher/school counselor recommendation

SCI306: CHEMISTRY (CREDIT RECOVERY)

Students review concepts of matter, energy, the metric system, and the scientific method. Other topics include the atom, the periodic table, ionic and covalent bonds, chemical reactions, stoichiometry, gases, liquids, and solids; solutions, and acids and bases. Students review chemical thermodynamics, reaction rates and system equilibria; electrochemical processes; organic chemistry and biochemistry; and nuclear chemistry. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Chemistry: Problems and Solutions

Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

SCI403: PHYSICS (COMPREHENSIVE)

This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus. Additional honors assignments include debates, research papers, extended collaborative laboratories, and virtual laboratories. The course gives a solid basis for moving on to more advanced college physics courses. The program consists of online instruction, virtual laboratories, and related assessments, plus an associated problem-solving book.

Course Length: Two semesters

Materials: Physics: Problems and Solutions

Prerequisites: MTH303: Algebra II or MTH403: Honors Algebra II and MTH403: Pre-Calculus/Trigonometry (MTH403 strongly recommended as a prerequisite, but this course may instead be taken concurrently with SCI404); and teacher/school counselor recommendation

SCI500: AP BIOLOGY

This course guides students to a deeper understanding of biological concepts, including the diversity and unity of life, energy and the processes of life, homeostasis, and genetics. Students learn about regulation, communication, and signaling in living organisms, as well as interactions of biological systems. Students carry out a number of learning activities, including readings, interactive exercises, extension activities, hands-on laboratory experiments, and practice assessments. These activities are designed to help students gain an understanding of the science process and critical-thinking skills necessary to answer questions on the AP Biology Exam. The content aligns to the sequence of topics recommended by the College Board.

Course Length: Two semesters

Materials: Common household materials for labs

Prerequisites: SCI204: Honors Biology, SCI304: Honors Chemistry, MTH124: Honors Algebra I (or equivalents); and teacher/school counselor recommendation required; success in MTH304: Honors Algebra II highly recommended

SCI510: AP CHEMISTRY

Students solve chemical problems by using mathematical formulation principles and chemical calculations in addition to laboratory experiments. They build on their general understanding of chemical principles and engage in a more in-depth study of the nature and reactivity of matter. Students focus on the structure of atoms, molecules, and ions, and then go on to analyze the relationship between molecular structure and chemical and physical properties. To investigate this relationship, students examine the molecular composition of common substances and learn to transform them through
chemical reactions with increasingly predictable outcomes. Students prepare for the AP Exam. The course content aligns to the sequence of topics recommended by the College Board.

**Course Length:** Two semesters  

**Prerequisites:** SCI304: Honors Chemistry and MTH304: Honors Algebra II (or equivalents); and teacher/school counselor recommendation

**SCI530: AP ENVIRONMENTAL SCIENCE**

Students examine the natural world’s interrelationships in AP Environmental Science. During this two-semester course, they identify and analyze environmental problems and their effects and evaluate the effectiveness of proposed solutions. They learn to think like environmental scientists as they make predictions based on observations, write hypotheses, design and complete field studies and experiments, and reach conclusions based on the analysis of resulting data. Students apply the concepts of environmental science to their everyday experiences; current events; and issues in science, politics, and society. The course provides opportunities for guided inquiry and student-centered learning that build critical thinking skills. Prerequisites for enrollment include two years of prior coursework in laboratory sciences (Biology, Chemistry, Earth Science, or Physics).

**Course Length:** Two semesters  
**Materials:** Living in the Environment, 17th edition; AP Environmental Science Lab Kit

**Prerequisites:** Success in two years of laboratory sciences in the following (or equivalents): usually SCI204 or SCI500 (AP): Biology, and either SCI304 or SCI510 (AP): Chemistry or SCI404 or SCI520 (AP): Physics; and MTH124: Honors Algebra I; SCI114: Honors Earth Science is recommended; and teacher/school counselor recommendation

**SCI010: ENVIRONMENTAL SCIENCE (ELECTIVE)**

This course surveys key topic areas, including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

**Course Length:** One semester  
**Materials:** None

**SCI030: FORENSIC SCIENCE (ELECTIVE)**

This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

**Course Length:** One semester  
**Materials:** None

**Prerequisites:** Successful completion of at least two years of high school science, including SCI203: Biology (or equivalent); SCI303: Chemistry is highly recommended

**SCI070-DYN: INTRODUCTION TO RENEWABLE TECHNOLOGIES (ELECTIVE) (NEW)**

Interested in transforming energy? With concerns about climate change and growing populations’ effects on traditional energy supplies, scientists, governments, and societies are increasingly turning to renewable and innovative energy sources. In the Introduction to Renewable Technologies course, you’ll learn all about the cutting-edge field of renewable energy and the exciting new technologies that are making it possible. You’ll explore new ways of generating energy and storing that energy, from biofuels to high-capacity batteries and smart electrical grids. You’ll also learn more about the environmental and social effects of renewable technologies and examine how people’s energy decisions impact policies.

**Course Length:** One semester  
**Materials:** None

**OTH032: ASTRONOMY (ELECTIVE)**

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe. This course introduces students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern
astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students examine the life cycle of stars, the properties of planets, and the exploration of space.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

**HST102: WORLD HISTORY (CORE)**

In this survey of world history from prehistoric to modern times, students focus on the key developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement World History: Our Human Story, a textbook written and published by K12. Students analyze primary sources and maps, create timelines, and complete other projects—practicing historical thinking and writing skills as they explore the broad themes and big ideas of human history.

**Course Length:** Two semesters

**Materials:** World History: Our Human Story

**Prerequisites:** K12 Middle School American History A, World History A or World History B (or equivalents)

**HST103: WORLD HISTORY (COMPREHENSIVE)**

In this comprehensive survey of world history from prehistoric to modern times, students focus in-depth on the developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement World History: Our Human Story, a textbook written and published by K12. Students are challenged to consider topics in depth as they analyze primary sources and maps, create timelines, and complete other projects—practicing advanced historical thinking and writing skills as they explore the broad themes and big ideas of human history. Students complete an independent honors project each semester.

**Course Length:** Two semesters

**Materials:** World History: Our Human Story

**Prerequisites:** K12 Middle School American History A, World History A or World History B (or equivalents)

**HST106: WORLD HISTORY (CREDIT RECOVERY)**

This course traces the development of civilizations around the world from prehistory to the present, with a special emphasis on key periods and primary sources. The course covers major events in world history, including the development and influence of human-geographic relationships, political and social structures, economics, science and technology, and the arts. Students investigate the major religions and belief systems throughout history and learn about the importance of trade and cultural exchange. Other topics include the development of agriculture, the spread of democracy, the rise of nation-states, the industrial era, the spread of imperialism, and the issues and conflicts of the twentieth century. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters
Materials: World History: Our Human Story
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

HST202: MODERN WORLD STUDIES (CORE)
Students trace the history of the world from approximately 1870 to the present. They begin with a look back at events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students examine both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Online lessons help students organize study, explore topics, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

Course Length: Two semesters
Materials: The Human Odyssey, Volume 3
Prerequisites: K12 Middle School Intermediate World History A and B (or equivalents)

HST203: MODERN WORLD STUDIES (COMPREHENSIVE)
In this comprehensive course, students follow the history of the world from approximately 1870 to the present. They begin with a study of events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students examine both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Online lessons help students organize study, explore topics, review in preparation for assessments, and practice sophisticated skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

Course Length: Two semesters
Materials: The Human Odyssey, Volume 3
Prerequisites: K12 Middle School Intermediate World History A and B (or equivalents)

HST204: HONORS MODERN WORLD STUDIES
In this advanced course, students investigate the history of the world from approximately 1870 to the present. They begin with an analysis of events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students undertake an in-depth examination of both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore advanced topics in physical and human geography, and investigate issues of concern in the contemporary world. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting research. Students complete independent projects each semester.

Course Length: Two semesters
Materials: The Human Odyssey, Volume 3
Prerequisites: K12 Middle School Intermediate World History A and B (or equivalents), success in previous social studies course; and teacher/school counselor recommendation

HST206: MODERN WORLD STUDIES (CREDIT RECOVERY)
Students review the history of the world from approximately 1870 to the present. The course begins with a look back at events leading up to 1914, including the Second Industrial Revolution and imperialism. Their focus then shifts to the contemporary era, including the world wars, the Great Depression, and global Cold War tensions. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters
Materials: The Human Odyssey, Volume 3
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

HST213: GEOGRAPHY (COMPREHENSIVE)
This course explores world geography on a region-by-region basis and covers a broad range of geographical perspectives.
Each unit covers one continent or other major geographical region of the world. Units include North America, Central America, South America, Western Europe, Eastern Europe and Russia, East Asia, Southeast Asia and the Pacific Cultures, Africa, India, and the Middle East. Students first learn about each region’s landforms, climate, and population. They then examine that region’s cultural, economic, and political institutions. Each unit is presented in a parallel format to facilitate interregional comparisons and allow students to see the similarities and differences between the regions more clearly.

Course Length: Two semesters
Materials: Students will need to download Google Earth
Prerequisites: None

HST216: GEOGRAPHY (CREDIT RECOVERY)

This course examines a broad range of geographical perspectives covering all of the major regions of the world. Students clearly see the similarities and differences among the regions as they explore the locations and physical characteristics, including absolute and relative location, climate, and significant geographical features. They look at each region from cultural, economic, and political perspectives, and closely examine the human impact on each region. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review. Audio readings and vocabulary lists in English and Spanish support reading comprehension.

Course Length: Two semesters
Materials: None
Prerequisites: Student previously took the course or its equivalent but did not receive credit, and teacher/school counselor recommendation

HST302: U.S. HISTORY (CORE)

This course is a full-year survey that provides students with a view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12’s The American Odyssey: A History of the United States. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. Students complete independent projects each semester.

Course Length: Two semesters
Materials: The American Odyssey: A History of the United States
Prerequisites: HST103: World History or HST203: Modern World Studies (or equivalents)

HST303: U.S. HISTORY (COMPREHENSIVE)

This course is a full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12’s The American Odyssey: A History of the United States. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. Students complete independent projects each semester.

Course Length: Two semesters
Materials: The American Odyssey: A History of the United States
Prerequisite: HST103: World History or HST203: Modern World Studies (or equivalents)

HST304: HONORS U.S. HISTORY

This course is a challenging full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12’s The American Odyssey: A History of the United States. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice advanced skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. Students complete independent projects each semester.

Course Length: Two semesters
Materials: The American Odyssey: A History of the United States
Prerequisites: HST103: World History or HST104: Honors World History, or HST204 (or equivalents); and teacher/school counselor recommendation

HST306: U.S. HISTORY (CREDIT RECOVERY)

Students review the rise of European nations and the Age of Exploration; the founding of the American colonies; the American Revolution, and the Declaration of Independence, the Articles of Confederation, and the Constitution. Other topics include the Civil War, migration across the Great Plains, immigration to American shores, and the rise of new ways of
HST312: MODERN U.S. HISTORY (CORE)

This course is a full-year survey that provides students with a view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K12’s *The American Odyssey: A History of the United States*. Online lessons help students organize study, explore topics in-depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

**Course Length:** Two semesters

**Materials:** *The American Odyssey: A History of the United States*

**Prerequisites:** K12 Middle School American History A and American History B (or equivalents)

HST313: MODERN U.S. HISTORY (COMPREHENSIVE)

This course is a full-year survey that provides students with a comprehensive view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K12’s *The American Odyssey: A History of the United States*. Online lessons help students organize study, explore topics in-depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

**Course Length:** Two semesters

**Materials:** *The American Odyssey: A History of the United States*

**Prerequisites:** K12 Middle School American History A and American History B (or equivalents)

HST314: HONORS MODERN U.S. HISTORY

This course is a challenging full-year survey that provides students with a comprehensive view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K12’s *The American Odyssey: A History of the United States*. Online lessons help students organize study, explore topics in-depth, review in preparation for assessments, and practice advanced skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. Students complete independent projects each semester.

**Course Length:** Two semesters

**Materials:** *The American Odyssey: A History of the United States*

**Prerequisites:** K12 Middle School American History A and American History B (or equivalents); and teacher/school counselor recommendation

HST316: MODERN U.S. HISTORY (CREDIT RECOVERY)

Students review American history from the industrial revolution of the late nineteenth century to recent events. They review how the American system of government works under the United States Constitution; federalism; settlement of the Great American West; issues of immigration and urban life; and the hopes, demands, and challenges African-Americans and women faced as they sought equality. Other topics include the world wars; the American Dream; the Civil Rights movement; Vietnam; Watergate; Reaganomics; the collapse of the Soviet Union; immigration trends; the Clinton years, and the new millennium. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters

**Materials:** *The American Odyssey: A History of the United States*

**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

HST402: U.S. GOVERNMENT AND POLITICS (CORE)

This course uses the perspective of political institutions to explore government history, organization, and functions. Students encounter the political culture of our country from the Declaration of Independence to the present day, gaining insight into the challenges faced by presidents, members of Congress, and other political participants. The course
also covers the roles of political parties, interest groups, the media, and the Supreme Court. Students learn to use primary historical documents as evidence in evaluating past events and government functions.

**Course Length:** One semester  
**Materials:** None  
**Prerequisite:** HST302: U.S. History (or equivalent) is recommended, but not required

**HST403: U.S. GOVERNMENT AND POLITICS (COMPREHENSIVE)**

This course studies the history, organization, and functions of the United States government. Beginning with the Declaration of Independence and continuing through to the present day, students explore the relationship between individual Americans and our governing bodies. Students take a close look at the political culture of our country and gain insight into the challenges faced by citizens, elected government officials, political activists, and others. Students also learn about the roles of political parties, interest groups, the media, and the Supreme Court, and discuss their own views on current political issues.

**Course Length:** One semester  
**Materials:** None  
**Prerequisite:** HST303: U.S. History (or equivalent) is recommended, but not required

**HST412: U.S. AND GLOBAL ECONOMICS (CORE)**

This course in economic principles uses real-world simulations to teach the issues faced by producers, consumers, investors, and taxpayers in the U.S. and around the world. Topics include markets; supply and demand; theories of early economic thinkers; theories of value; money, the role of banks, investment houses, and the Federal Reserve; and other fundamental features of capitalism. A survey of current issues in American and global markets rounds out the course.

**Course Length:** One semester  
**Materials:** None  
**Prerequisite:** HST402: U.S. Government and Politics (or equivalent) is recommended, but not required

**HST413: U.S. AND GLOBAL ECONOMICS (COMPREHENSIVE)**

In this course on economic principles, students explore choices they face as producers, consumers, investors, and taxpayers. Students apply what they learn to real-world simulation problems. Topics of study include markets from historic and contemporary perspectives; supply and demand; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how it evolved, the role of banks, investment houses, and the Federal Reserve); Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism such as unemployment, inflation, and the national debt; and a survey of markets in such areas as China, Europe, and the Middle East.

**Course Length:** One semester  
**Materials:** None  
**Prerequisite:** HST403: U.S. Government and Politics (or equivalent) is recommended, but not required

**HST416: ECONOMICS (CREDIT RECOVERY)**

In this one-semester credit recovery course, students gain a basic understanding of economics. The course uses real-world economic applications to help students better grasp a range of economic concepts, including macro- and microeconomic concepts. The course covers the American free enterprise system and addresses how this system affects the global economy. Students learn how to think like economists as they study economic principles and different economic systems. They analyze and interpret data to understand the laws of supply and demand. Examining the world of business, money, banking, and finance helps students understand how economics is applied both domestically and globally.


**HST500: AP U.S. HISTORY**

Students explore and analyze the economic, political, and social transformation of the United States since the time of the first European encounters. Students are asked to master not only the wide array of factual information necessary to do well on the AP Exam, but also to practice skills of critical analysis of historical information and documents. Students read primary and secondary source materials and analyze problems presented by historians to gain insight into challenges of interpretation and the ways in which historical events have shaped American society and culture. The content aligns to the sequence of topics recommended by the College Board and to widely used textbooks. This course prepares students for the AP Exam.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**HST510: AP U.S. GOVERNMENT AND POLITICS**

This course is the equivalent of an introductory college-level course. Students explore the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students gain the analytical perspective necessary to evaluate political data, hypotheses, concepts, opinions, and processes and learn how to gather data about political behavior and develop their own theoretical analysis of American politics. Students also build the skills they need to examine general propositions about government and politics, and to analyze specific relationships between political, social, and economic institutions. Students prepare for the AP Exam and for further study in political science.

**Course Length:** One semester  
**Materials:** America: A Narrative History, 9th edition, George Tindall and David E. Shi (W.W. Norton, 2012)  
**Prerequisites:** Success in previous history course; and teacher/school counselor recommendation

**HST520: AP MACROECONOMICS**

This course is the equivalent of an introductory college-level course. Students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. Students also examine how individuals and institutions are influenced by employment rates, government spending, inflation, taxes, and production. Students prepare for the AP Exam and for further study in business, political science, and history.

**Course Length:** One semester  
**Prerequisites:** MTH304: Honors Algebra II (or equivalent); and teacher/school counselor recommendation

**HST530: AP MICROECONOMICS**

This course is the equivalent of an introductory college-level course. Students explore the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students learn why the same product can cost different amounts at different stores, in different cities, and at different times. Students also learn to spot patterns in economic behavior and learn how to use those patterns to explain buyer and seller behavior under various conditions. Lessons promote an understanding of the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in the economy. Students prepare for the AP Exam and for further study in business, history, and political science.

**Course Length:** One semester  
**Prerequisites:** MTH304: Honors Algebra II (or equivalent); and teacher/school counselor recommendation

**HST540: AP PSYCHOLOGY**

This course is the equivalent of an introductory college-level course. Students receive an overview of current psychological research methods and theories. They explore the therapies used by professional counselors and clinical psychologists, and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They study core psychological concepts, such as the brain and sensory functions, and learn to gauge human reactions,
gather information, and form meaningful syntheses. Students prepare for the AP Exam and for further studies in psychology and life sciences.

**Course Length:** One semester

**Materials:** Psychology by David G. Myers, 11th edition

**Prerequisites:** SCI204: Honors Biology (or equivalent); and teacher/school counselor recommendation

**HST560: AP WORLD HISTORY**

This course spans the Neolithic Age to the present in a rigorous academic format organized by chronological periods and viewed through fundamental concepts and course themes. Students analyze the causes and processes of continuity and change across historical periods. Themes include human-environment interaction, cultures, expansion and conflict, political and social structures, and economic systems. In addition to mastering historical content, students cultivate historical thinking skills that involve crafting arguments based on evidence, identifying causation, comparing and supplying context for events and phenomenon, and developing historical interpretation. This course prepares students for the AP World History Exam.

**Course Length:** Two semesters

**Materials:** Siddhartha by Herman Hesse; King Leopold’s Ghost: A Story of Greed, Terror, and Heroism in Colonial Africa by Adam Hochschild (supplied by school or student)

**Prerequisites:** Success in previous history course, and teacher/school counselor recommendation

**HST020: PSYCHOLOGY (ELECTIVE)**

In this one-semester course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics include: Methods of Study, Biological Basis for Behavior, Learning and Memory, Development and Individual Differences, and Psychological Disorders.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

**HST030: ECONOMICS (ELECTIVE)**

Students are introduced to the basics of economic principles, and they will learn the importance of understanding different economic systems. They will also investigate how to think like an economist. Students will explore different economic systems, including the American Free Enterprise System, and they will analyze and interpret data to understand the laws of supply and demand. Students will also be presented with economic applications in today’s world. From economics in the world of business, money, banking, and finance, students will see how economics is applied both domestically and globally. Students will also study how the government is involved in establishing economic stability in the American Free Enterprise System as well as the how the U.S. economy has a global impact.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

**HST040: CIVICS (ELECTIVE)**

Civics is the study of citizenship and government. This one-semester course provides students with a basic understanding of civic life, politics, and government, and a short history of government’s foundation and development in this country. Students learn how power and responsibility are shared and limited by government, the impact American politics has on world affairs, the place of law in the American constitutional system, and which rights the American government guarantees its citizens. Students also examine how the world is organized politically and how civic participation in the American political system compares to that in other societies around the world today.

**Course Length:** One semester

**Materials:** None

**Prerequisite:** HST103: World History (or equivalent) recommended as a prerequisite or co-requisite, but not required
**HST050: SOCIOLOGY (ELECTIVE)**

Through this two-semester course, students explore human relationships in society. Instructional materials emphasize culture, social structure, the individual in society, institutions, and social inequality. Unit topics for the first semester include society and culture, what is sociology, the nature of culture, conformity and deviance, social structure, roles, relationships and groups, and social stratification. In the second semester, students learn about social institutions, the family, religion and education, government and economic systems, the individual in society, the early years, adolescence, the adult years, continuity and change, communities and change, social movements and collective behavior, social problems, minorities and discrimination, poverty, crime, and problems of mass society. Students use a textbook for the course.

**Course Length:** Two semesters  
**Materials:** Sociology: Study of Human Relationships, 6th edition, W. LaVerne Thomas; other editions acceptable  
**Prerequisites:** None

**OTH031: ARCHAEOLOGY (ELECTIVE)**

George Santayana once said, “Those who cannot remember the past are condemned to repeat it.” The field of archaeology helps us better understand the events and societies of the past that have helped shape our modern world. This course focuses on the techniques, methods, and theories that guide the study of the past. Students learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved. Finally, students learn about the relationship of material items to culture and what we can learn about past societies from these items.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

**HST222: CONTEMPORARY WORLD ISSUES (ELECTIVE)**

Students analyze governments, economies, peoples, and cultures from around the world in this course. Instruction emphasizes the structures and policies of the United States and how they compare to other systems in the international community. Students apply critical thinking and research skills to examine current events and contemporary issues, including human rights, the strengths and weaknesses of globalization, America’s role in the international economy, the severe environmental threats facing many regions around the world today, how religion is often used to facilitate and justify violence, and America’s “War on Terror” and its impact on the Middle East and Islamic culture.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisites:** None

**WORLD LANGUAGES**

**WLG100: SPANISH I**

Students begin their introduction to Spanish by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Course Length:** Two semesters  
**Materials:** A speaker and microphone are necessary; a headset combination is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended  
**Prerequisites:** None  
**Note:** Students who have already completed K12 Middle School Spanish 2 should enroll in Spanish II rather than in Spanish I.
WLG106: SPANISH I (CREDIT RECOVERY)

This credit recovery course provides students with instruction in the basics of learning the language of Spanish. Content includes topics such as greetings, time, dates, colors, clothing, numbers, weather, family, houses, sports, food and drink, and school. The course also introduces basic and stem-changing verbs and their formation and use in the present tense. Students also learn about interrogatives, question formation, and adjectives and their form and use, in addition to possessives, prepositions, and other grammatical structures. Finally, students become acquainted with the Spanish-speaking countries of the world and their cultures, and they learn practical information such as restaurant vocabulary and expressions of invitation.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended

Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

WLG200: SPANISH II

Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; use correct vocabulary terms and phrases naturally; incorporate a wide range of grammar concepts consistently and correctly while speaking and writing; participate in conversations covering a wide range of topics and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; read and analyze important pieces of Hispanic literature; and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended

Prerequisite: WLG200: Spanish II (or equivalent)

WLG300: SPANISH III

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning; use correct vocabulary terms and phrases naturally; incorporate a wide range of grammar concepts consistently and correctly while speaking and writing; participate in conversations covering a wide range of topics and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended

Prerequisite: WLG300: Spanish III (or equivalent)

WLG400: SPANISH IV

Fourth-year Spanish expands on the foundation of Spanish grammar and vocabulary that students acquired in the first three courses. As with all the earlier offerings, this culminating-level Spanish language course conforms to the standards of the American Council on the Teaching of Foreign Languages (ACTFL). Students continue to sharpen their speaking, listening, reading and writing skills while also learning to express themselves on topics relevant to Spanish culture. The two-semester course is divided into ten units whose themes include people, achievements, wishes and desires, activities, celebrations, possibilities, the past, the arts, current events, and wrap up and review.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended

Prerequisite: WLG300: Spanish III (or equivalent)
**WLG500: AP SPANISH LANGUAGE AND CULTURE**

The 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 course prepares students for the 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.

The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. In addition, students participate in a forum where they are able to share their own opinions and comments about various topics and comment on other students’ posts. The course also makes great use of the Internet for updated and current material.

**Course Length:** Two semesters

**Materials:** A speaker and microphone are necessary; a headset combination is recommended; Spanish/English dictionary

**Prerequisites:** Strong success in WLG300: Spanish III, or success in WLG400: Spanish IV (or equivalents), and teacher/school counselor recommendation

**WLG210: FRENCH II**

Students continue their study of French by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various French-speaking countries; and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Course Length:** Two semesters

**Materials:** A speaker and microphone are necessary; a headset combination is recommended; Larousse Student French-English/English-French Dictionary or equivalent is recommended

**Prerequisites:** None

*Note: Students who have already completed K12 Middle School French 2 should enroll in French II rather than in French I.*

**WLG310: FRENCH III**

Students further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to express themselves more meaningfully in both speaking and reading passages more fully, but they also start to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various French-speaking countries; and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Course Length:** Two semesters

**Materials:** A speaker and microphone are necessary; a headset combination is recommended; Larousse Student French-English/English-French Dictionary or equivalent is recommended

**Prerequisites:** WLG110: French I, K12 Middle School French 1 and 2 (or equivalents)
understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts. Students should expect to be actively engaged in their own language learning; use correct vocabulary terms and phrases naturally; incorporate a wide range of grammar concepts consistently and correctly while speaking and writing; participate in conversations covering a wide range of topics; respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various German-speaking countries; and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended, Larousse Student French-English/English-French Dictionary or equivalent is recommended

Prerequisite: WLG310: French III (or equivalent)

WLG410: FRENCH IV

Students complete their high school French language education with this two-semester course that, like all of its predecessors, conforms to the national standards of the ACTFL. The instructional material in French IV enables students to use the conditional and subjunctive tenses, and talk about the past with increasing ease, distinguishing which tense to use and when. It also helps students hone their listening skills to enhance their understanding of native speech patterns on familiar topics. Students expand their knowledge of French-speaking countries’ culture, history, and geography and learn about francophone contributions in the arts.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended, Larousse Student French-English/English-French Dictionary or equivalent is recommended

Prerequisite: WLG310: French III (or equivalent)

WLG510: AP FRENCH LANGUAGE AND CULTURE

The AP French Language and Culture course is an advanced language course in which students are directly prepared for the AP French Language and Culture Exam. It uses as its foundation the three modes of communication: interpersonal, interpretive, and presentational. The course is conducted almost exclusively in French. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide-variety of authentic French-language materials and sources; demonstrate proficiency in interpersonal, interpretive, and presentational communication using French; gain knowledge and understanding of the cultures of the Francophone world; use French to connect with other disciplines and expand knowledge in a wide-variety of contexts; develop insight into the nature of the French language and its culture; and use French to participate in communities at home and around the world. The AP French Language course is a college level course. The intensity, quality, and amount of course material can be compared to that of a third-year college course.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended; French/English dictionary

Prerequisites: Strong success in WLG310: French III, or success in WLG410: French IV (or equivalents), and teacher/school counselor recommendation

WLG120: GERMAN I

Students begin their introduction to German by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations; respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various German-speaking countries; and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended; Larousse German Dictionary or equivalent is recommended
**WLG220: GERMAN II**

Students continue their study of German by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations; respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Course Length:** Two semesters

**Materials:** A speaker and microphone are necessary; a headset combination is recommended; Larousse German Dictionary or equivalent is recommended

**Prerequisites:** WLG220: German II (or equivalent)

**WLG420: GERMAN IV**

German IV builds on the foundation of the first three courses. Students continue to sharpen their speaking, listening, reading, and writing skills while also learning to express themselves on topics relevant to German culture. Authentic texts, current culture, and literature from Germany, Austria, and Switzerland all form part of the instructional material for this course. Each unit focuses on a particular region or city and includes such themes as culture, tourism, and current events. These units cover topics such as contemporary and classical music, expressing opinion, German history, transportation, family weekend travel, shopping, free-time activities, technology, multiculturalism, education, and careers.

**Course Length:** Two semesters

**Materials:** A speaker and microphone are necessary; a headset combination is recommended; Larousse German Dictionary or equivalent is recommended

**Prerequisite:** WLG320: German III (or equivalent)

**WLG130: LATIN I**

Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by
ACTFL (the American Council on the Teaching of Foreign Languages).

Note: Students who have already completed K12 Middle School Latin 2 should enroll in Latin II rather than in Latin I.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended; Bantam New College Latin & English Dictionary or equivalent is recommended

Prerequisites: None

WLG230: LATIN II

Students continue with their study of Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, prepare students for a deeper study of Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. The emphasis is on reading Latin through engaging with myths from the ancient world, which are presented in Latin. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, understand and use common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). Note: Students who have already completed K12 Middle School Latin II should enroll in Latin II rather than in Latin I.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended; Bantam New College Latin & English Dictionary or equivalent is recommended

Prerequisites: None

WLG240: CHINESE II

Students continue their study of Chinese by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Character recognition and practice are a key focus of the course and students are expected to learn several characters each unit. However, pinyin is still presented with characters throughout the course to aid in listening and reading comprehension. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various Chinese-speaking regions, and take frequent assessments where their language progression can be monitored. The course
has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Course Length:** Two semesters

**Materials:** A speaker and microphone are necessary; a headset combination is recommended; *Oxford Beginner’s Chinese Dictionary* or equivalent is recommended

**Prerequisites:** WLG140: Chinese I, K12 Middle School Chinese 1 and 2 (or equivalents)

**WLG150: JAPANESE I**

Students become familiar with the fundamental concepts and constructions of the Japanese language, as well as the rich and ancient world of Japanese culture, in this two-semester course. Japanese I has been designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). Unit topics consist of the alphabet and numbers; greetings; introductions; the calendar (days, months, and seasons); weather; time; colors; familiar objects and places; family; food; pastimes; and school objects and routine. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multimedia presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes, and exams.

**Course Length:** Two semesters

**Materials:** A speaker and microphone are necessary; a headset combination is recommended; *Oxford Beginner’s Japanese Dictionary* or equivalent is recommended

**Prerequisites:** None

**WLG250: JAPANESE II**

In Japanese II, course content blends different forms of communication and culture via unit activities to ensure that students meet all standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a focus on successful oral and written communication as well as a thorough grounding in Japanese culture. Unit themes for both semesters cover a broad range of useful everyday subjects, including daily routine, animals, entertainment, body parts, rooms and furniture, shopping and clothing, meals, sports and recreation, and transportation. Students must successfully complete Japanese I in order to enroll in this course.

**Course Length:** Two semesters

**Materials:** A speaker and microphone are necessary; a headset combination is recommended; *Oxford Beginner’s Japanese Dictionary* or equivalent is recommended

**Prerequisite:** WLG150: Japanese I (or equivalent)

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**ELECTIVES**

**CAR010-DYN: BUSINESS AND HEALTHCARE EXPLORATIONS (NEW)**

This course is designed as an exploration of two career clusters. Students will get an introduction to these fields so that they can better assess which pathway to pursue. In this course, students explore basic concepts in the broad areas of business and health care, as well as career options in each area. In addition to studying concepts of entrepreneurship, accounting, and marketing, students explore these concepts on scales that range from a single person to nations. The second part of this course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

**CAR020: IT AND MANUFACTURING EXPLORATIONS (NEW)**

This course is designed as an exploration of two career clusters. Students get an introduction to these fields so that they can better assess which pathway to pursue. The first half of the course provides a comprehensive introduction to the essentials of web design, from planning page layouts to publishing a complete site to the web. Students learn how to use HTML to design their own web pages. The course covers basic HTML tags for formatting text, as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools. The second half of the course has an introduction to engineering and to advanced manufacturing.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

**OTH034: INTRODUCTION TO AGRISCIENCE (ELECTIVE)**

Agriculture has played an important role in the lives of humans for thousands of years. It has fed us and given us materials that have helped us survive. Today, scientists and practitioners...
are working to improve and better understand agriculture and how it can be used to continue to sustain human life. In this course, students learn about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.

Course Length: One semester
Materials: None
Prerequisites: None

**AGR111-DYN: AGRISCIENTES II (NEW)**

Science and technology are revolutionizing may areas of our lives, and agriculture is no exception! From aquaculture to genetic engineering, Agrisciences are finding new ways to better produce and manage plants, animals, and other natural resources. In Agriscience II, you’ll build on your existing knowledge of plant and animal science and delve deeper into important areas such as soil science and weed management. You’ll also explore research on plant and animal diseases as well as the insects and other pests that can impact agricultural enterprises and natural resources.

Course Length: One semester
Materials: None
Prerequisites: None

**AGR020-DYN: INTRODUCTION TO FORESTRY & NATURAL RESOURCES (NEW)**

Forests and other natural resources play an important role in our world, from providing lumber and paper products to providing habitat for birds and animals. In the Introduction to Forestry and Natural Resources course, you’ll learn more about forest ecology, management, and conservation. You’ll explore topics such as environmental policy, land use, water resources, and wildlife management. Finally, you’ll learn more about forestry related careers and important issues facing forestry professionals today.

Course Length: One semester
Materials: None
Prerequisites: None

**OTH033: VETERINARY SCIENCE (ELECTIVE)**

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases affect not only the animals around us but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

Course Length: One semester
Materials: None
Prerequisites: None

**OTH035: EARLY CHILDHOOD EDUCATION (ELECTIVE)**

Children experience enormous changes in the first few years of their lives. They learn to walk, talk, run, jump, read, and write, among other milestones. Caregivers can help infants, toddlers, and children grow and develop in positive ways. This course is for students who want to influence the most important years of human development. In the course, students learn how to create fun and educational environments for children, how to keep the environment safe for children, and how to encourage the health and well-being of infants, toddlers, and school-aged children.

Course Length: One semester
Materials: None
Prerequisites: None

**OTH018: FASHION AND INTERIOR DESIGN (ELECTIVE)**

From the clothes we wear to the homes we live in, fashion and design is all around us. In this course, students who have a flair for fashion or who constantly redecorate their room find out what it is like to work in the design industry by exploring career possibilities and the background needed to pursue them. Students try their hand at designing as they learn the basics of color and design, then test their skills through hands-on projects. In addition, they develop the essential communication skills that build success in any business. By the end of the course, students are well on their way to developing the portfolio needed to get started in this exciting field.

Course Length: One semester
Materials: Household items required (but not supplied): sewing machine, digital camera, measuring tape, project supplies that vary depending on projects chosen, fabric that varies depending on project chosen
Prerequisites: None
BUS060-DYN: ADVERTISING & SALES PROMOTION (NEW)

What comes to mind when you think of marketing? Does a favorite commercial jingle begin to play in your head? Or do you recall the irritating phone call from a company trying to sell you software you already have? No matter what your feelings are about it, there’s no denying the sheer magnitude of the marketing industry. Every year, companies spend $200 billion promoting their products and services—and that’s in the United States alone! Experts estimate that, by the time you turn 65, you will have seen nearly 2 million TV commercials, not to mention radio ads, billboards, and online advertisements. You’re familiar with what it’s like on the receiving end of a company’s marketing efforts, but what’s it like on the other side? In this Advertising and Sales Promotions course, you’ll learn how marketing campaigns, ads, and commercials are conceived and brought to life. You’ll meet some of the creative men and women who produce those memorable ads and commercials. And you’ll discover career opportunities in the field to help you decide if a job in this exciting, fast-paced industry is in your future!

Course Length: One semester
Materials: None
Prerequisites: None

MTH342: ACCOUNTING (ELECTIVE)

In this introductory course, students gain a foundation in the skills needed for college accounting courses, office work, and managing their own small businesses. They also build an appreciation for the role of accounting in managing a profitable business. The course provides an overview of the three forms of accounting: financial, cost, and management accounting. Instructional material covers the basic concept conventions and rules of the double entry system—and includes techniques for analyzing ratios from a balance sheet. The concepts of ethics, integrity, confidentiality, and rigor are woven through all the units.

Course Length: Two semesters
Materials: None
Prerequisites: None

BUS040: INTRODUCTION TO ENTREPRENEURSHIP I (ELECTIVE)

In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with new business ideas, attract investors, market their business, and manage expenses.

Course Length: One semester
Materials: None
Prerequisites: None

BUS060: INTRODUCTION TO MARKETING I (ELECTIVE)

Students find out what it takes to market a product or service in today’s fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They learn about sales methods, financing and credit, accounting, pricing, and government regulations. They refine their technology and communication skills in speaking, writing, networking, negotiating, and listening. They enhance their employability skills by preparing job-related documents, developing interviewing skills, and learning about hiring, firing, and managing employees. Students develop a complete business plan and a presentation for potential investors.

Course Length: One semester
Materials: None
Prerequisite: BUS040: Introduction to Entrepreneurship I (or equivalent)

BUS070: INTRODUCTION TO MARKETING II (ELECTIVE)

Students build on the skills and concepts learned in Introduction to Marketing I to develop a basic understanding of marketing principles and techniques. By the end of the course, they will have developed their own comprehensive marketing plan for a new business.

Course Length: One semester
Materials: None
Prerequisites: BUS060: Introduction to Marketing I (or equivalent)
BUS030-DYN: INTRODUCTION TO RESTAURANT MANAGEMENT (NEW)

Have you always dreamed of running your own restaurant? Maybe you want to manage a restaurant for a famous chef. What goes on beyond the dining room in a restaurant can determine whether a restaurant is a wild success or a dismal failure. In Restaurant Management, you’ll learn the responsibilities of running a restaurant—from ordering supplies to hiring and firing employees. This course covers the different types of restaurants; managing kitchen and wait staff; food safety and hygiene; customer relations; marketing; using a point-of-sale system; scheduling employees; and dealing with difficult guests. Restaurant Management will prepare you for a steady career, whether you plan to buy a fast food franchise, operate a casual sit-down restaurant, or oversee a fine-dining establishment.

Course Length: One semester
Materials: None
Prerequisites: None

BUS090: SPORTS AND ENTERTAINMENT MARKETING (ELECTIVE)

Students who have wished to play sports professionally or who have dreamed of becoming an agent for a celebrity entertainer have an interest in sports and entertainment marketing. Although this particular form of marketing bears some resemblance to traditional marketing, there are many differences as well—including a lot more glitz and glamour! In this course, students have the opportunity to explore basic marketing principles and delve deeper into the multibillion-dollar sports and entertainment marketing industry. Students learn how professional athletes, sports teams, and well-known entertainers are marketed as commodities and how some of them become billionaires as a result. For students who have ever wondered about how things work behind the scenes of a major sporting event, such as the Super Bowl, or even entertained the idea of playing a role in such an event, this course introduces the fundamentals of such a career.

Course Length: One semester
Materials: None
Prerequisites: None

HLT040-DYN: BIOTECHNOLOGY: UNLOCK NATURE’S SECRETS (NEW)

Can we bring back extinct species? Will the cures for cancer, malaria, and other diseases come from the combination of natural materials and new technologies? How is science changing the foods we eat? Welcome to the world of biotechnology! In this course, you will explore the history of biotechnology, including early attempts at food preservation, the development of antibiotics, and changes to food crops around the world. You’ll also learn more about some of the challenges of biotechnology such as the growth of antibiotic resistant bacteria and questions about the safety of commercially produced genetically modified organisms (GMOs). Finally, you’ll research new biotechnologies and how they are changing the world we live in.

Course Length: One semester
Materials: None
Prerequisites: None

OTH092: INTRODUCTION TO HEALTH SCIENCES (ELECTIVE)

Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and measles identified and diagnosed? Health sciences provide the answers to questions such as these. This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

Course Length: One semester
Materials: None
Prerequisites: None

HLT121-DYN: HEALTH SCIENCES II (N)

Challenging. Variable. Rewarding. These three words can be used to describe many careers in the health sciences. In this course, you will learn more about what it takes to be a successful health science professional, including how to communicate with patients. You’ll explore the rights and responsibilities of both patients and health sciences professionals in patient care and learn more about how to promote wellness among patients and health care staffs. Finally, you’ll learn more about safety in health sciences settings and the challenges and procedures of emergency care, infection control, and blood-borne pathogens.

Course Length: One semester
Materials: None
Prerequisites: None

OTH037: HOSPITALITY AND TOURISM (ELECTIVE)

With greater disposable income and more opportunities for business travel, people are traversing the globe in growing
numbers. As a result, the hospitality and tourism industry is one of the fastest growing in the world. This course introduces the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Student learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

Course Length: One semester
Materials: None
Prerequisites: None

OTH093: INTRODUCTION TO CULINARY ARTS (ELECTIVE)
Food is fundamental to life. Not only does it feed our bodies, but it’s often the centerpiece for family gatherings and social functions. In this course, students learn all about food, including food culture, food history, food safety, and current food trends. They also learn about the food service industry and prepare some culinary dishes. Through hands-on activities and in-depth study of the culinary arts field, this course helps students hone their cooking skills and gives them the opportunity to explore careers in the food industry.

Course Length: One semester
Materials: Household items required (but not supplied): stand mixer, meat thermometer, assorted ingredients for recipes
Prerequisites: None

OTH038: CAREERS IN CRIMINAL JUSTICE (ELECTIVE)
Do you want to help prevent crime and maintain order in society? The criminal justice system may be a good career option. The criminal justice system offers a wide range of career opportunities, from law enforcement to forensic scientists to lawyers and judges. In this course, students will explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the correctional system. Careers in each area will be explored, and students will learn more about the expectations and training required for various career options in the criminal justice field.

Course Length: One semester
Materials: None
Prerequisites: None

OTH039: CRIMINOLOGY
In the modern world, many citizens share a concern about criminal behaviors and intent. This course introduces students to the field of criminology, the study of crime. Students look at possible explanations for crime from psychological, biological, and sociological perspectives, explore the categories and social consequences of crime, and investigate how the criminal justice system handles criminals and their misdeeds. The course explores some key questions: Why do some individuals commit crimes while others do not? What aspects of culture and society promote crime? Why are different punishments given for the same crime? What factors—from arrest to punishment—help shape the criminal case process?

Course Length: One semester
Materials: None
Prerequisites: None

OTH091: LAW AND ORDER (ELECTIVE)
Every society has laws that its citizens must follow. From traffic laws to regulations on how the government operates, laws help provide society with order and structure. Our lives are guided and regulated by our society’s legal expectations. Consumer laws help protect us from faulty goods; criminal laws help protect society from individuals who harm others; and family law handles the arrangements and issues that arise in areas like divorce and child custody. This course focuses on the creation and application of laws in various areas of society. By understanding the workings of our court system, as well as how laws are actually carried out, students become more informed and responsible citizens.

Course Length: One semester
Materials: None
Prerequisites: None

LAW050-DYN: PRINCIPLES OF PUBLIC SERVICE: TO SERVE & PROTECT (NEW)
Have you ever wondered who decides where to put roads? Or makes sure that someone answers the phone when you call 911? Or determines that a new drug is safe for the public? These tasks and many more are part of public service, a field that focuses on building healthy societies. Public service includes many different types of careers, but they all have in common the goal of working for others. This course will explore some of the most common career paths in public service. Working for the public also comes with a very specific set of expectations since protecting society is such an important mission. So if you want to work for the greater good, there is probably a public service career for you!

Course Length: One semester
Materials: None
Prerequisites: None