



K12 International Academy

2018-2019

COURSE CATALOG

GRADES K-12



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Some courses may require families to purchase materials beyond those supplied by the K12 International Academy to successfully complete the course. For more information, please contact our school.



Note: Course materials will be available in various physical and/or digital formats.

ENGLISH and LANGUAGE ARTS

SUMMIT 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.

SUMMIT 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:** 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 Language Arts Literature and Comprehension program consists of reading selections from a 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 using lined paper.
- **Spelling:** In Spelling the first lesson of a unit introduces new spelling words. 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:** Vocabulary exposes students to a wide variety of words. Students will learn, review, and practice words online. 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:** 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.

SUMMIT 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.

SUMMIT 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:** 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. Students will master the spelling skills needed to read and write proficiently.
- **Vocabulary:** Vocabulary exposes students to a wide variety of words. Students will learn, review, and practice words online. These short lessons are entirely online. 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, vocabulary, spelling, and writing strategies to answer questions, similar to those on standardized tests, including planning and writing a response to a prompt.

SUMMIT LANGUAGE ARTS RED (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.

SUMMIT LANGUAGE ARTS YELLOW (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.

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.

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.

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.

SUMMIT MATH PLUS BLUE (K)

This 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.

SUMMIT MATH PLUS GREEN (1)

This 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 extends their work with place value to numbers through 100, emphasizing fluency of addition and subtraction facts, and focusing on number sentences and problem solving with addition and subtraction. Students begin work with money; telling time; ordering events; and measuring length, weight, and capacity with non-standard units. Students identify attributes of geometric figures and also extend their work with patterns and data, including representing and comparing data.

SUMMIT MATH PLUS ORANGE (2)

This 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.

SUMMIT MATH PLUS PURPLE (3)

This course focuses on computational fluency, conceptual understanding, and problem solving. The engaging lessons feature 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 and 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, giving students the ability to connect the use of fractions with problem situations in a way that makes sense and creates deeper understanding. The course 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.

SUMMIT MATH PLUS RED (4)

This course focuses on computational fluency, conceptual understanding, and problem solving. The engaging lessons feature 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 continues to emphasize the understanding of numbers and operations. There is a focus on computational fluency in addition, subtraction, multiplication, and division of whole numbers. 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.

SUMMIT MATH PLUS YELLOW (5)

This course focuses on computational fluency, conceptual understanding, and problem solving. The engaging lessons feature 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.

SCIENCE

SUMMIT SCIENCE K

Kindergarten students begin to develop observation skills as they learn about the five senses, 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).

SUMMIT 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, coasts, coral reefs), light (how it travels, reflections,

and inventor Thomas Edison), plants (germination, functions of roots, stems), and the human body.

SUMMIT 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).

SUMMIT 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.

SUMMIT 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.

SUMMIT 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.

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.

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.

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.

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.

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 period from the Scientific Revolution to modern times. Supplementary lessons focus on concepts in economics and citizenship.

ART

SUMMIT ART K

Students are introduced to the elements of art—line, shape, color, and more. They learn about portraits and landscapes, and realistic and abstract art. Students will learn about important paintings, sculpture, and architecture; study the works and lives of artists such as Matisse, Miro, Rembrandt, Hiroshige, Cezanne, Picasso, and Faith Ringgold; and create artworks similar to works they learn about, using many materials and techniques. For example, students will create brightly colored paintings inspired by Matisse and make mobiles inspired by Alexander Calder.

SUMMIT ART 1

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.

SUMMIT 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.

SUMMIT ART 3

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.

SUMMIT 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.

MUSIC

SPOTLIGHT ON MUSIC, GRADES K-2

Explore and build foundational music skills with Spotlight on Music. This course offers a variety of learning activities that include singing, dancing, virtual instruments, listening maps, and authentic sound recordings. Music comes to life in the course through six units that are organized into three sections: Spotlight on Concepts, Spotlight on Music Reading, and Spotlight on Celebrations. Students learn about these musical elements: duration, pitch, design, tone color, expressive qualities, and cultural context. Students explore music from around the world while also exploring beat, meter, rhythm, melody, harmony, texture, form, tone color, dynamics, tempo, style, and music background. Students also have the opportunity to perform seasonal and celebratory songs.

SPOTLIGHT ON MUSIC, GRADES 3-5

Get ready to travel the world through music as students explore and build foundational music skills with Spotlight on Music. This hands on music course offers a variety of learning activities that include singing, dancing, virtual instruments, listening maps, authentic sound recordings with famous past and present artists, a player that allows students to customize key signatures, tempo, and lyrical highlighting, and playing the recorder. Six units in the course are organized into three sections: Spotlight on Concepts, Spotlight on Music Reading, and Spotlight on Celebrations. Students learn about these musical elements: duration, pitch, design, tone color, expressive qualities and cultural context, while exploring music from all over the world. Students also learn to read music and explore beat, meter, rhythm, melody, harmony, tonality, texture, form, tone color, dynamics, tempo, articulation, style, and music background. Students apply the music skills they are learning while performing seasonal and celebratory songs.

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 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, oui and non, s'il vous plait and merci, and other familiar phrases, songs, simple storytelling, and description activities. **Vocabulary** starts with animals, shapes, and colors and moves to fruits, farm-related words, body parts, family words, and numbers. **Grammar** topics include simple nouns, first-, second-, and third-person present-tense verbs for simple questions, basic third-person past-tense verbs, interrogative words, simple conjunctions, articles, prepositions, and introductory imperative and infinitive verb forms. **Cultural topics** introduce the geographies and customs of French-speaking countries.

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 countries, with a special focus on German-speaking Switzerland.

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. 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 lessons in the online school.



| ENGLISH/LANGUAGE ARTS |
|----------------------------------|
| Summit Language Arts Blue (K) |
| Summit Language Arts Green (1) |
| Summit Language Arts Orange (2) |
| Summit Language Arts Purple (3) |
| Summit Language Arts Red (4) |
| Summit Language Arts Yellow (5) |
| MARK12 Reading I (Remediation) |
| MARK12 Reading II (Remediation) |
| MARK12 Reading III (Remediation) |
| MATH |
| Summit Math Plus Blue (K) |
| Summit Math Plus Green (1) |
| Summit Math Plus Orange (2) |
| Summit Math Plus Purple (3) |
| Summit Math Plus Red (4) |
| Summit Math Plus Yellow (5) |
| SCIENCE |
| Summit Science K |
| Summit Science 1 |
| Summit Science 2 |
| Summit Science 3 |
| Summit Science 4 |
| Summit Science 5 |
| HISTORY/SOCIAL SCIENCES |
| History K |
| History 1 |
| History 2 |
| History 3 |
| History 4 |
| WORLD LANGUAGES |
| Elementary Spanish 1 |
| Elementary Spanish 2 |
| Elementary French 1 |
| Elementary French 2 |
| Elementary German 1 |
| Elementary German 2 |
| Elementary Latin 1 |

| ART |
|----------------------------|
| Summit Art K |
| Summit Art 1 |
| Summit Art 2 |
| Summit Art 3 |
| Summit Art 4 |
| MUSIC |
| Spotlight on Music K |
| Spotlight on Music 1 |
| Spotlight on Music 2 |
| Spotlight on Music 3 |
| Spotlight on Music 4 |
| Spotlight on Music 5 |
| ORIENTATION |
| Welcome to Online Learning |



Note: Course materials will be available in various physical and/or digital formats.

ENGLISH and LANGUAGE ARTS

GRADE 6 LANGUAGE ARTS

Grade 6 Language Arts equips students with the essential language arts skills needed throughout their academic careers. Students read and analyze a variety of informational and fictional texts. Instruction and reading strategies accompany reading selections to help engage students in the text and sharpen their comprehension. Students express their ideas and knowledge using standard (formal) English in written and oral assignments. Writing expressive, analytical, and procedural compositions helps students develop communication skills necessary in today's world. Vocabulary is taught explicitly and through an array of vocabulary acquisition strategies that give students the tools to independently increase their vocabulary. Students study grammar, usage, and mechanics; and practice sentence analysis, sentence structure, and proper punctuation. Portfolios created by students provide a platform for them to set goals, monitor their progress, and reflect on their accomplishments and challenges. The course includes discussion activities that engage students in the curriculum while creating a sense of community.

GRADE 7 LANGUAGE ARTS

Grade 7 Language Arts continues the development of comprehension and analysis of informational and fictional texts with an ongoing emphasis on reading strategies. Students express themselves using standard (formal) English in written and oral presentations. Analyzing and practicing the form and structure of various genres of writing enhances students' communication skills. Students study a variety of media to understand informational and persuasive techniques, explicit and implied messages, and how visual and auditory cues affect messages. Grammar, usage, and mechanics skills are deepened. Students continue to widen their vocabulary and apply acquisition strategies. Portfolios created by students provide a platform for them to set goals, monitor their progress, and reflect on their accomplishments and challenges. The course includes discussion activities that engage students in the curriculum while creating a sense of community.

GRADE 8 LANGUAGE ARTS

Throughout Grade 8 Language Arts students engage in literary analysis and close reading of short stories, poetry, drama, novels, and informational texts. The course focuses on interpretation of literary works, analysis of informational texts, and the development of oral and written communication skills in standard (formal) English. Students read "between the lines" to interpret literature and go beyond the text to discover how the culture in which a work of literature was created contributes to the theme and ideas it conveys. Analysis of the structure and elements of informational texts and media helps students develop the skills needed for academic success and the navigating the world. Students continue to acquire knowledge and skills in grammar, usage, mechanics, and vocabulary. Setting goals, self-monitoring progress, and reflecting on successes and challenges help students become metacognitive learners. The course includes discussion activities that engage students in the curriculum while creating a sense of community.

MATH

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. Lessons provide demonstrations of key concepts as well as interactive problems with contextual feedback. A textbook supplements the online material.

SUMMIT MATH 6

In the Math 6 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.

SUMMIT MATH 7

In the Math 7 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.

SUMMIT MATH 8

The Math 8 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.

SCIENCE

EARTH SCIENCE

The Earth science curriculum builds on the natural curiosity of students. By connecting them to the beauty of geological history, the amazing landforms around the globe, the nature of the sea and air, and the newest discoveries about our universe, the curriculum gives students an opportunity to relate to their everyday world. Students will explore topics such as the fundamentals of geology, oceanography, meteorology, and astronomy; Earth's minerals and rocks; Earth's interior; plate tectonics, earthquakes, volcanoes, and the movements of continents; geology and the fossil record; the oceans and the atmosphere; and the solar system and the universe.

LIFE SCIENCE

The life science curriculum 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.

PHYSICAL SCIENCE

The physical science curriculum 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.

HISTORY AND SOCIAL STUDIES

MIDDLE SCHOOL AMERICAN HISTORY BEFORE 1865

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. 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.

MIDDLE SCHOOL AMERICAN HISTORY SINCE 1865

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. 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.

MIDDLE SCHOOL WORLD HISTORY I

In this first part of a survey of world history from prehistoric to modern times, the online lessons and assessments complement *The Human Odyssey*, a textbook series. 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.

MIDDLE SCHOOL WORLD HISTORY II

Continuing a survey of world history from prehistoric to modern times, the online lessons and assessments complement the second volume of *The Human Odyssey*, a textbook series. 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.

ART

INTERMEDIATE AMERICAN ART I

Intermediate American Art I 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.

INTERMEDIATE AMERICAN ART II

Intermediate American Art II 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.

INTERMEDIATE WORLD ART I

Intermediate World Art I 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.

INTERMEDIATE WORLD ART II

Intermediate World Art II 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.

MUSIC

SPOTLIGHT ON MUSIC, GRADE 6

Get ready to travel the world through music as students explore and build foundational music skills with Spotlight on Music. This hands on music course offers a variety of learning activities that include singing, dancing, virtual instruments, listening maps, authentic sound recordings with famous past and present artists, a player that allows students to customize key signatures, tempo, and lyrical highlighting, and playing the recorder. Six units in the course are organized into three sections: Spotlight on Concepts, Spotlight on Music Reading, and Spotlight on Celebrations. Students learn about these musical elements: duration, pitch, design, tone color, expressive qualities and cultural context, while exploring music from all over the world. Students also learn to read music and explore beat, meter, rhythm, melody, harmony, tonality, texture, form, tone color, dynamics, tempo, articulation, style, and music background. Students apply the music skills they are learning while performing seasonal and celebratory songs.

SPOTLIGHT ON MUSIC, GRADES 7-8

Students become musicians as they explore and build foundational music skills with Spotlight on Music. This course encourages students to discover their musical potential

through diverse learning activities that include singing, dancing, virtual instruments, listening maps, authentic sound recordings with famous past and present artists, a player that allows students to customize key signatures, tempo, and lyrical highlighting, playing the recorder, and optional guitar lessons. The course is organized into nine units. Students study the musical elements of duration, pitch, design, tone color, expressive qualities and cultural context. Students are introduced to music from all over the world as they explore beat, meter, rhythm, melody, harmony, tonality, texture, form, tone color, dynamics, tempo, articulation, style, and music background, and learn to actively read and write music.

WORLD LANGUAGES

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 that 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 by which their language progression can be monitored.

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

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 that 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 by which their language progression can be monitored.

Prerequisite: Middle School Spanish 1 (or equivalent)

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 that 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.

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

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 that 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 Frenchspeaking countries; and take frequent assessments by which their language progression can be monitored.

Prerequisite: 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 that 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 by which their language progression can be monitored.

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

MIDDLE SCHOOL GERMAN 2

Students continue their language-learning adventure by progressing to this next level of middle school German. The instruction is equivalent to that found in the second semester of high school German I. Students expand their introduction to German 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 that 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 Germanspeaking countries; and take frequent assessments by which their language progression can be monitored.

Prerequisite: 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 that 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 that 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. 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 by which their language progression can be monitored.

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

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 that 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 that 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. 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 by which their language progression can be monitored.

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

Prerequisite: K12 Middle School Latin 1 (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 that 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 help

students learn characters. 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 Chinesespeaking countries; and take frequent assessments by which their language progression can be monitored.

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

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 help student learn characters. 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.

Prerequisite: Middle School Chinese 1 (or equivalent)

ORIENTATION

WELCOME TO ONLINE LEARNING

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| ENGLISH/LANGUAGE ARTS |
|--|
| Grade 6 Language Arts |
| Grade 7 Language Arts |
| Grade 8 Language Arts |
| MATH |
| Math 6 |
| Math 7 |
| Math 8 |
| Pre-Algebra |
| SCIENCE |
| Earth Science |
| Life Science |
| Physical Science |
| HISTORY/SOCIAL SCIENCES |
| Middle School American History Before 1865 |
| Middle School American History Since 1865 |
| Middle School World History I |
| Middle School World History II |
| WORLD LANGUAGES |
| Middle School Spanish 1 * |
| Middle School Spanish 2 * |
| Middle School French 1 * |
| Middle School French 2 * |
| Middle School German 1 * |
| Middle School German 2 * |
| Middle School Latin 1 * |
| Middle School Latin 2 * |
| Middle School Chinese 1 * |
| Middle School Chinese 2 * |

| ART |
|---------------------------------|
| Intermediate American Art I + |
| Intermediate American Art II + |
| Intermediate World Art I + |
| Intermediate World Art II + |
| MUSIC |
| Spotlight on Music 6 * + |
| Spotlight on Music 7 * + |
| Spotlight on Music 8 * + |
| ORIENTATION |
| Introduction to Online Learning |

* Course is 180 days in length. A final grade will be given at the end of 180 days.

+ Course is graded on a Pass (P) / Fail (F) basis.

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



To graduate and receive an Upper School diploma, students must earn 24 credits in the following subject areas and be enrolled as a full-time student for at least two consecutive semesters.

| | |
|-----------------------------|--|
| English | 4 credits |
| Math | 4 credits (Algebra 1 and higher) |
| Science | 4 credits (must include 2 lab science credits) |
| History and Social Sciences | 4 credits (must include 1 credit of U.S. History) |
| World Languages | 2 credits (must be 2 credits of the same language; must be a non-English language course) |
| Physical Education | 0.5 credit |
| Health | 0.5 credit |
| Electives | 5 credits |
| Total | 24 Credits |

Students must complete a minimum of six (6) credits and must spend one academic year enrolled as a full-time student with K12 International Academy to be eligible for a K12 International Academy diploma. Individual exceptions will be considered for students with credits from a public school or accredited private institution with a grade of C or above in all courses, provided that the student completes one academic year as a full-time student with K12 International Academy.

A student must be FULL-TIME for their senior year (the two last semesters of a student's senior year must be consecutive) to be eligible for a diploma.

High School Course Levels

- In 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 helps students absorb and retain information.
- In 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.
- 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.

- 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.

Note: Course materials will be available in various physical and/or digital formats.

ENGLISH

(These courses fulfill the English Credit Requirement)

ENG103: COMPREHENSIVE 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.

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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Intermediate English A and B (or equivalents)

Note: This course is only for students who are new to the curriculum. Students who have taken Intermediate English A or B, or Middle School Literary Analysis and Composition courses, 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.

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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Intermediate English A and B (or equivalents) and teacher/school counselor recommendation

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

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 nonfiction, both classic and modern. 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 the perspectives of readers and writers, 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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: 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 nonfiction, both classic and modern. 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 the perspectives of readers and writers, 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. Semesters A and B should be taken consecutively and not simultaneously.

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

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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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. 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. Semesters A and B should be taken consecutively and not simultaneously.

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

ENG403: BRITISH AND WORLD LITERATURE (COMPREHENSIVE)

Students read selections from British and world literature and analyze the themes, styles, and structures of these texts. They also 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 critical reading and writing test-taking skills.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: ENG303: American Literature (or equivalent)

ENG404: HONORS BRITISH AND WORLD LITERATURE

Students read selections from British and world literature and analyze the themes, styles, and structures of these texts. They also 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 critical reading and writing test-taking skills.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

ENG510: AP® ENGLISH LITERATURE AND COMPOSITION

In this course, the equivalent of an introductory college-level survey class, students are immersed in novels, plays, poems, and short stories from various periods. Students read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and discussions. The course places special emphasis on reading comprehension, structural and critical analyses of written works, literary vocabulary, and recognizing and understanding literary devices. Students prepare for the AP® exam.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: ENG204: Honors Literary Analysis and Composition II (or equivalent) or ENG304: Honors American Literature (or equivalent), ENG500: AP® English Language and Composition; and teacher/school counselor recommendation

MATH

(These courses fulfill the Math Credit Requirement)

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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: MTH112: Pre-Algebra (or equivalent)

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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Pre-Algebra and MTH112: Pre-Algebra (or equivalent)

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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Success in previous math course and teacher/school counselor recommendation

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, 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. Semesters A and B should be taken consecutively and not simultaneously.

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. Semesters A and B should be taken consecutively and not simultaneously.

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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: MTH123: Algebra I or MTH124: Honors Algebra I (or equivalent) and 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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: MTH122: Algebra I (or equivalents)

MTH303: ALGEBRA II (COMPREHENSIVE)

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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: MTH123: Algebra I (or equivalents)

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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: MTH123 or MTH124 (Honors): Algebra I and MTH203 or MTH204 (Honors): Geometry (or equivalents) 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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Algebra I and Geometry

MTH403: TRIGONOMETRY

This course introduces students to the concepts of trigonometry. Students will learn about the basic trigonometric functions and how to graph these functions. Students will also learn how to solve right triangles and how to use law of sines and law of cosines. Students will also explore how these concepts connect to real-world applications.

Course Length: One semester

Prerequisite: Algebra II

MTH403: PRE-CALCULUS

The purpose of this course is to investigate the major topics in Pre-Calculus and to prepare students to continue on to Calculus. After completing this course, students will understand polynomial functions, polar coordinates, complex numbers, conic sections, exponential functions, logarithmic functions, sequences, and series.

Course Length: One semester

Prerequisite: Trigonometry

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)

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 in 10 units and covers various applications, including graph analysis, linear motion, average value, area, volume, and growth and decay models.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Pre-Calculus and Trigonometry (or equivalent)

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. Semesters A and B should be taken consecutively and not simultaneously.

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

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. Semesters A and B should be taken consecutively and not simultaneously.

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

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 mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for the AP® exam.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

SCIENCE

(These courses fulfill the Science Credit Requirement)

Many of the science courses will have lab assignments. Prior to these assignments, students will be responsible for obtaining some lab materials (such as common household items). The materials that are needed for each lab are listed in the Advanced Preparation section of the corresponding unit.

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 laboratory investigations and experiences.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: Middle School Physical Science

(or equivalent)

SCI112: EARTH SCIENCE (CORE)

This course provides students with a solid earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consist of online lessons, an associated reference book, and hands-on activities. 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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: Middle School Earth 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, and hands-on lab assignments that 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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: Middle School Earth 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, and extended collaborative laboratories.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Middle School Earth Science (or equivalent), Middle School Physical Science (suggested, or equivalent); 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 consist of online lessons, including extensive animations, and associated reference book, collaborative activities, and hands-on laboratory experiments student can conduct at home.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: 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, and hands-on laboratory experience students can conduct at home.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: 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 research papers, extended collaborative laboratories and virtual laboratories.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously. .

Prerequisites: Middle School Life Science (or equivalent), success in previous science course; 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, laboratories, and related assessments, used with a problem-solving book.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Satisfactory completion of either Middle School Physical Science or SCI102: Physical Science, SCI202: Comprehensive Biology (or equivalent), and a solid grasp of

algebra basics, evidenced by success in MTH122: Algebra I (or equivalents). Students should also be enrolled in MTH302: Comprehensive Algebra II.

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, laboratories, and related assessments, used with a problem-solving book.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Satisfactory completion of either Middle School Physical Science or SCI102: Physical Science, SCI203: Comprehensive Biology (or equivalent), and a solid grasp of algebra basics, evidenced by success in MTH123: Algebra I (or equivalents). Students should also be enrolled in MTH303: Comprehensive Algebra II.

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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Satisfactory completion of either Middle School Physical Science or SCI102: Physical Science, SCI203: Comprehensive Biology (or equivalent), and a solid grasp of algebra basics, evidenced by success in MTH123: Algebra I (or equivalents). Students should also be enrolled in MTH303: Comprehensive Algebra II.

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. The course gives students a solid basis to move on to more advanced courses later in their academic careers. The program consists of online instruction, laboratories, and related assessments, plus an associated problem-solving book.

Course Length: Two semesters. Semesters A and B should be

taken consecutively and not simultaneously.

Prerequisites: MTH303: Algebra II and MTH403: Pre-Calculus/Trigonometry (or equivalents) (MTH403 strongly recommended as a prerequisite, but this course may instead be taken concurrently with SCI403)

SCI404: HONORS PHYSICS

This advanced course surveys 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 research papers and student-designed projects. The course gives a solid basis for moving on to more advanced college physics courses. The program consists of online instruction, laboratories, and related assessments, plus an associated problem-solving book.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: MTH303: Algebra II or MTH304: 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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

SCI530: AP® ENVIRONMENTAL SCIENCE

AP® Environmental Science is equivalent to an introductory college-level environmental science course and is designed to prepare students for the College Board AP® Environmental Science exam. AP® Environmental Science is interdisciplinary, incorporating various topics from different disciplines and areas of science.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Students must have taken at least one year of high school algebra and successfully completed a high school earth science.

SCI010: ENVIRONMENTAL SCIENCE

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

Prerequisites: Success in previous high school science course and teacher/school counselor recommendation

SCI030: FORENSIC SCIENCE

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

Prerequisites: Successful completion of at least two years of high school science, including SCI203: Biology (or equivalent) and SCI303: Chemistry (or equivalent)

HISTORY and SOCIAL SCIENCES

(These courses fulfill the History Credit Requirement)

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*, an embedded textbook. Students are challenged to consider topics in-depth as they 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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Middle School American History Before 1865, World History I, or World History II (or equivalents)

HST104: HONORS WORLD HISTORY

In this challenging 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*, an embedded textbook. 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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Middle School American History Before 1865, World History I, or World History II (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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Middle School World History I and World History II (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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: Middle School World History I and World History II (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 *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 time lines, completing projects and written assignments, and conducting independent research.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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 *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. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: HST103 or HST104 (Honors): World History, or HST203 or HST204 (Honors): Modern World Studies (or equivalents), and teacher/school counselor recommendation

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

Prerequisite: HST303: U.S. History (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

Prerequisite: HST403: U.S. Government and Politics (or equivalent) is recommended, but not required

HST510: AP® U.S. GOVERNMENT & POLITICS

In this course, students explore the operations and structure of the U.S. government. Students 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, law, education, business, and history.

Course Length: One semester

Prerequisite: HST304: Honors U.S. History (or equivalent); and teacher/counselor recommendation

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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: 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.

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.

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.

Course Length: One semester

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

HST560: AP® WORLD HISTORY

The course focuses on developing greater understanding of the processes, contacts, interactions, and ideas that have shaped the world, with an emphasis on non-Western history. Content 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. Students prepare for the AP® World History exam.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

HEALTH AND P.E.

OTH010: SKILLS FOR HEALTH

This course focuses on important skills and knowledge in nutrition; physical activity; the dangers of substance use and abuse; sex education; injury prevention and safety; growth and development; and personal health, environmental conservation, and community health resources. The curriculum is designed around topics and situations that engage student discussion and motivate students to analyze internal and external influences on their health-related decisions. The course helps students build the skills they need to protect, enhance, and promote their own health and the health of others.

Course Length: One semester

OTH020: PHYSICAL EDUCATION

This course combines online instructional guidance with student participation in weekly cardiovascular, aerobic, muscle-toning, and other activities. Students fulfill course requirements by keeping weekly logs of their physical activity. The course promotes the value of lifetime physical activity and includes instruction in injury prevention, nutrition and diet, and stress management. Students may enroll in the course for either one or two semesters, and repeat for further semesters as needed to fulfill state requirements. Students will earn a standard letter grade for completing this course.

Course Length: One semester

PHYSICAL EDUCATION B

This high school course focuses on the fundamental components and principles of fitness. Physical Education examines safety guidelines, proper technique, and exercise principles such as FITT: Frequency (how often you exercise), Intensity (how hard you work during exercise), Time (how long you exercise), and Type (what type of activity you do). Students assess their current level of fitness in relation to the five components of physical fitness: flexibility, cardiovascular health, muscular strength, muscular endurance, and body

composition. This course equips students with strategies to help them begin, design, and maintain an exercise program to keep them fit for life.

Course Length: One semester

Prerequisite: OTH020: Physical Education (or equivalent)

WORLD LANGUAGES

(These courses fulfill the World Language Credit Requirement)

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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

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, 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 Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in Spanish.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: WLG100: Spanish I, Middle School Spanish 1 and 2 (or equivalents)

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, 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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: WLG200: Spanish II (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 AP® Spanish Language and Culture course prepares students for the College Board's AP® Spanish Language and Culture exam. It uses as its foundation the three modes of communication (Interpersonal, Interpretive and Presentational) as defined in the Standards for Foreign Language Learning in the 21st Century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish. 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. Semesters A and B should be taken consecutively and not simultaneously.

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

WLG110: 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 progression can be monitored.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: WLG110: French I, Middle School French 1 and 2 (or equivalents)

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 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 French-speaking countries; read and analyze important pieces of literature; and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in French.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: WLG210: French II (or equivalent)

WLG510: AP® FRENCH LANGUAGE AND CULTURE

The AP® French Language and Culture course is an advanced language course in which students prepare for the 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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisites: WLG120: German I, Middle School German 1 and 2 (or equivalents)

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. 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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

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. 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).

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously. A passing grade in Semester A is required to enroll in the B semester.

Prerequisite: WLG130: Latin I (or equivalent)

WLG140: 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 regions, and take frequent assessments where their language progression can be monitored.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

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 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.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

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

BUSINESS MANAGEMENT ELECTIVES

BUS030: PERSONAL FINANCE

In this introductory finance course, students learn basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society.

Course Length: One semester

BUS040: INTRODUCTION TO ENTREPRENEURSHIP I

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

BUS050: INTRODUCTION TO ENTREPRENEURSHIP II

Students build on the business concepts they learned in Introduction to Entrepreneurship I. They learn about sales methods, financing and credit, accounting, pricing, and government regulations. 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

Prerequisite: BUS040: Introduction to Entrepreneurship I (or equivalent)

BUS060: INTRODUCTION TO MARKETING I

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 buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.

Course Length: One semester

BUS070: INTRODUCTION TO MARKETING II

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

Prerequisite: BUS060: Introduction to Marketing I (or equivalent)

BUS080: INTERNATIONAL BUSINESS

From geography to culture, global business is an exciting topic in the business community today. This course is designed to help students develop the appreciation, knowledge, skills, and abilities needed to live and work in a global marketplace. It takes a global view on business, investigating why and how companies go international and are more interconnected. The course further provides students a conceptual tool by which to understand how economic, social, cultural, political, and legal factors influence both domestic and cross-border business. Business structures, global entrepreneurship, business management, marketing, and the challenges of managing international organizations will all be explored in this course. Students will cultivate a mindfulness of how history, geography, language, cultural studies, research skills, and continuing education are important in both business activities and the twenty-first century.

Course Length: One semester

BUS090: SPORTS AND ENTERTAINMENT MARKETING

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

MTH322: CONSUMER MATH

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 of Consumer Math, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slide shows 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. Semester A and B should be taken consecutively and not simultaneously.

BUS111: GENERAL ACCOUNTING I & BUS112: GENERAL ACCOUNTING II

This course provides students with a foundation in the mechanics of accounting, as well as the opportunity to apply accounting concepts to real world situations and make informed business decisions. Students explore case studies of companies such as TOMS® Shoes, iTunes®, American Eagle®, McDonald's, and Google. Students master valued skills, such as critical thinking and technology use, and commercial technology. Students become equipped to work with Microsoft® Excel®, Sage 50®/Peachtree®, QuickBooks®, and Automated Accounting Online. The courses include units on careers in accounting, ethics, global awareness, financial literacy, and forensic accounting.

Levels 1 and 2 must be taken in sequential order.

TECHNOLOGY AND COMPUTER SCIENCE ELECTIVES

TCH075: 2D ANIMATION

In this course, you will learn the necessary skills to do just that. 2D Animation will give students the tools to conceptualize and bring their animation dreams to life! Using a variety of software and design programs, students you will have the power to transform your creative notions into reality! Design, define, and complete a variety of digital design projects including creating your own website! 2D Animation could lead to a career in the growing world of technology and animation.

Course Length: One semester

System Requirements: Microsoft® Windows XP® SP3 or higher, Mac® OS X® 10.6 or higher operating system, or Linux®; FreeBSD; 32 bits, Dual Core CPU with at least 2 GHZ, and SSE2 support; 2 GB of memory (RAM); 24 bits 1280 x 768 display; OpenGL-compatible graphics card with 256 MB RAM; 3-button mouse or trackpad; at least 2 GB of available hard drive space; Adobe® Reader®; the most current Adobe® Flash® Player.

TCH076: 3D MODELING

In this course student gain deeper understanding of graphic design and illustration through the use 3D animation software to create virtual three-dimensional design projects. Student hone in on their drawing, photography, and 3D construction. This course will help develop the skills needed to navigate within a 3D digital modeling workspace while rendering 3D models, and is a good introduction careers in the fast-growing field of technology and design!

Course Length: One semester

Prerequisite: TCH017: 3D Art I: Modeling

System Requirements: Microsoft® Windows XP® or higher, Mac® OS X® 10.6 or higher operating system, or Linux®; FreeBSD; 32 bits, Dual Core CPU with at least 2 GHZ, and SSE2 support; 2 GB of memory (RAM); 24 bits 1280 x 768 display; OpenGL-compatible graphics card with 256 MB RAM; 3-button mouse or trackpad; at least 2 GB of available hard drive space; Adobe® Reader®; the most current Adobe® Flash® Player.

TCH026: AUDIO ENGINEERING

In this introductory course, students learn about the physics of sound and the history of recording technologies. They learn about the four stages of professional music recording projects: recording, editing, mixing, and mastering. Using Audacity®, an open-source recording and mixing program,

they practice the techniques used by sound engineers to produce multi-track recordings. Through a series of engaging hands-on projects, they learn the fundamental concepts of audio engineering.

Course Length: One semester

System Requirements: Microsoft® Windows XP®, Windows Vista®, Windows® 7, or Mac® OS X® 10.4 or higher operating system; for Windows XP® and Vista® Home Basic, a 1 GHz or faster processor; for Windows® Vista® Home Premium/Business/Ultimate and Windows® 7, a 2 GHz or faster processor; for Mac® OS X®, a 300 MHz or faster processor; for XP, 512 MB of memory (RAM); for Vista® Home Basic, 2 GB; for Vista® Home Premium/Business/Ultimate and for Windows® 7, 4 GB; for Mac® OS X®, 64 MB; at least 4 GB of available hard drive space

TCH028: DIGITAL ARTS I

In this exploratory course, students learn the elements and principles of design as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They explore career opportunities in the design, production, display, and presentation of digital artwork. They respond to the artwork of others, and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

Course Length: One semester

System Requirements: Microsoft® Windows XP®, Windows Vista®, or Mac® OS X® 10.3 or higher operating system, 1 GHz or faster processor; at least 512 MB of memory (RAM); at least 1 GB of available hard drive space

TCH029: DIGITAL ARTS II

Students build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, they will have created a collection of digital art projects for their digital design portfolio.

Course Length: One semester

System Requirements: Microsoft® Windows XP®, Windows Vista®, or Mac® OS X® 10.3 or higher operating system, 1 GHz or faster processor; at least 512 MB of memory (RAM); at least 1 GB of available hard drive space

Prerequisite: TCH028: Digital Arts I (or equivalent)

TCH030: IMAGE DESIGN & EDITING

This introductory design course is for students who want to create compelling, professional-looking graphic designs and photos. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational

skills. They use GIMP software to create a graphic design portfolio with a wide variety of projects involving the mastery of technical topics such as working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. The projects help students develop the skills they need to create and edit images of their own.

Course Length: One semester

System Requirements: Microsoft® Windows XP® or higher, or Mac® OS X® operating system; 400 MHz or faster processor; 512 MB of memory (RAM); at least 2 GB of hard drive space; Adobe® Reader®; the most current Adobe® Flash® Player

TCH031: DIGITAL PHOTOGRAPHY I

The Digital Photography I course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students will use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-up, and action photographs.

Course Length: One semester

Students must have a digital camera for this course.

TCH032: DIGITAL PHOTOGRAPHY II

In this course, students will examine various aspects of professional photography, including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in such as wedding photography and product photography. We will also learn more about some of the most respected professional photographers in history and we will learn how to critique photographs in order to better understand what creates an eye catching photograph.

Course Length: One semester

Prerequisite: TCH031: Digital Photography I

Students must have a digital camera for this course.

OTH221: ENGINEERING FUNDAMENTALS 1

This course is designed to give students strong problem-solving skills and a solid foundation in fundamental principles they will need to become analytical, detail-oriented, and innovative engineers. The course begins with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to be successful in engineering. It then covers the basic physical concepts and laws that students will encounter on the job. The course also includes professional profiles that highlight the work of practicing engineers from around the

globe. Throughout, the course demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day.

Course Length: One semester

Prerequisite: None; SCI102 Physical Science is recommended as a prerequisite or concurrent course.

TCH040: WEB DESIGN

This 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.

Course Length: One semester

System Requirements: Microsoft® Windows XP® or higher, or Mac® OS X® operating system; 400 MHz or faster processor; 512 MB of memory (RAM); at least 2 GB of hard drive space; Adobe® Reader®

TCH331: C++ PROGRAMMING

This course teaches students to use problem-solving skills involving full-code examples to demonstrate how and why to apply programming concepts while using C++. Programming exercises strengthen student understanding of program design. Students will walk through the stages of Input, Output, Problem Analysis, and Algorithm Design to illustrate key concepts.

Course Length: One semester

System Requirements: Windows® 7 SP1 (x86 and x64), Windows® 8 (x86 and x64), Windows® 8.1 (x86 and x64), Windows® Server 2008 R2 SP1 (x64), Windows® Server 2012 (x64), Windows® Server 2012 R2 (x64)

Hardware requirements: 1.6 GHz or faster processor, 1 GB of RAM (1.5 GB if running on a virtual machine), 5 GB of available hard disk space, 5400 RPM hard drive, DirectX 9-capable video card running at 1024 x 768 or higher display resolution

TCH071: GAME DESIGN 1

With this course, students will learn about different video game software and hardware; various gaming platforms; the technical skills necessary to design games; troubleshooting and Internet safety techniques; the history of gaming; and students will even have the opportunity to create their own plan for a 2D video game! With the knowledge and skills students will gain in this course, they can take their hobby and turn it into a potential career.

Course Length: One semester

System Requirements: Microsoft® Windows XP® or Windows Vista® operating system; 1 GHz or faster processor; 256 MB of memory (RAM); at least 2 GB of available hard drive space

TCH110: INTRODUCTION TO COMPUTER SCIENCE

This course provides a solid foundation using an algorithm-driven approach that is ideal for students' first course in computer science. Students learn about emerging topics such as privacy, drones, and cloud computing. Students also are introduced to programming languages such as C++, Java™, Python™, C#, and Ada.

Course Length: One semester

TCH112: MICROSOFT® WORD

Using a project based approach, students are introduced to Microsoft® Word®. This course walks students through basic to advanced features by experimenting with document creation. Forms of documents created include research papers, business letters, resumes, letters and mailing labels. Students work through these hands on projects to hone skills in formatting, page layout, macro creation, and a vast variety of commonly used word processing tools.

Course Length: One semester

TCH122: MICROSOFT® EXCEL

Using a project based approach, students are introduced to Microsoft® Excel®. This course walks students through basic to advanced features by experimenting with spreadsheet creation. Types of activities include, creating worksheets, charts, formulas, functions, what-if analysis, and financial functions. Students work through these hands on projects to master skills in commonly used features of spreadsheets.

Course Length: One semester

TCH132: MICROSOFT® POWERPOINT®

Using a project based approach, students are introduced to Microsoft® PowerPoint®. This course walks student through basic to advanced features by experimenting with presentation creation. Types of activities include, creating presentations that include, text, images, sound, animation, and transition. Students work through these hands on projects to master skills commonly used in presentation software.

Course Length: One semester

TCH211: PROGRAMMING LOGIC AND DESIGN

This course prepares student programmers for success by

teaching them the fundamental principles of developing structured program logic. This course takes a unique, language-independent approach to programming, with a distinctive emphasis on modern conventions and prepares students for all programming situations with introductions to object-oriented concepts, UML diagrams, and databases.

Course Length: One semester

TCH321: JAVA™ PROGRAMMING I & TCH322: JAVA™ PROGRAMMING II

These courses introduce programmers to the power of Java™ for developing applications while learning the basic principles of structured and object-oriented programming. These courses incorporate the latest version of Java™ with meaningful real-world exercises, and a wealth of case problems helps students build skills critical for ongoing programming success. Levels 1 and 2 must be taken in sequential order.

Prerequisites: Introduction to Computer Science and Programming Logic and Design

TCH411: ADOBE® DREAMWEAVER®

This course helps students master the industry-standard web development software by emphasizing all aspects of Dreamweaver® such as its interface, features, and functionality. The course includes hands-on projects and real-world case studies to help students hone their skills and appreciate their professional relevance. The course explores web standards and design trends that can serve students well throughout their careers. At the end of this course, students are prepared to excel on the Adobe® Certified Associate certification exam.

Course Length: One semester

System Requirements: Windows®: Intel® Pentium® 4 or AMD Athlon® 64 processor, Microsoft® Windows® 7, Windows® 8, Windows® 8.1, or Windows® 10, 2 GB of RAM, 1.1 GB of available hard-disk space for installation; additional free space required during installation (cannot install on removable flash storage devices), 1280x1024 display with 16-bit video card

Internet connection and registration are necessary for required software activation, validation of subscriptions, and access to online services.

MacOS®: Multicore Intel® processor, Mac® OS X® v10.9, 10.10, 10.11, 2 GB of RAM, 1.1 GB of available hard-disk space for installation; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system or on removable flash storage devices), 1280x1024 display with 16-bit video card

Internet connection and registration are necessary for required software activation, validation of subscriptions, and access to online services.

TCH441: ADOBE® PHOTOSHOP®

This course provides a solid foundation for students to learn technology for sophisticated digital editing. Students progress from basic to advanced Photoshop® techniques and learn not only the how, but also the why behind each Photoshop® tool to help students excel at design as well as master the software. At the end of this course, students are prepared to take the Adobe® Certified Associate certification exam.

Course Length: One semester

System Requirements: Windows: Intel® Core™2 or AMD Athlon™ 64 processor; 2 GHz or faster processor, Microsoft® Windows® 7 with Service Pack 1, Windows® 8.1, or Windows® 10, 2 GB of RAM (8 GB recommended), 2.6 GB of available hard-disk space for 32-bit installation; 3.1 GB of available hard-disk space for 64-bit installation; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system), 1024 x 768 display (1280x800 recommended) with 16-bit color and 512 MB of dedicated VRAM; 2 GB is recommended*, OpenGL 2.0-capable system

*Internet connection and registration are necessary for required software activation, validation of subscriptions, and access to online services.***

macOS®: Multicore Intel® processor, Mac® OS X® v10.9 (64-bit), v10.10 (64-bit), or v10.11 (64-bit), 2 GB of RAM (8 GB recommended), 4 GB of available hard-disk space for installation; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system), 1024 x 768 display (1280x800 recommended) with 16-bit color and 512 MB of dedicated VRAM; 2 GB is recommended*, OpenGL 2.0-capable system

*Internet connection and registration are necessary for required software activation, membership validation, and access to online services.***

** 3D features are disabled on 32-bit platforms and on computers having less than 512 MB of VRAM. Video features are not supported on 32-bit Windows® systems.*

***NOTICE TO USERS. Internet connection, Adobe® ID, and acceptance of license agreement required to activate and use this product. This product may integrate with or allow access to certain Adobe® or third-party hosted online services. Adobe® services are available only to users 13 and older and require agreement to additional terms of use and Adobe's online privacy policy (see <http://www.adobe.com/aboutadobe/legal.html>). Applications and Services may not be available in all countries or languages and may be subject to change or discontinuation without notice. Additional fees or membership charges may apply.*

Design Space (Preview) may have system requirements in addition to the ones listed above.

CAREER TECHNICAL EDUCATION

ELECTIVES

OTH038: CAREERS IN CRIMINAL JUSTICE

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

OTH091-DYN: LAW AND ORDER

This course focuses on the creation and application of laws in society. Topics include how law and ethics are intertwined, the lawmaking process, and the steps involved in the court system. In addition, students will take a closer look at individual types of laws, including criminal, tort, consumer, and family law.

Course Length: One semester

ENG010: JOURNALISM

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

HST010: ANTHROPOLOGY

Anthropologists research the characteristics and origins of the cultural, social, and physical development of humans and consider why some cultures change and others come to an end. In this course, students are introduced to the five main branches of anthropology: physical, cultural, linguistic, social, and archeological. Through instruction and their own investigation and analysis, students explore these topics, considering their relationship to other social sciences such as history, geography, sociology, economics, political science, and psychology. Emulating professional anthropologists, students apply their knowledge and observational skills to the real-life study of cultures in the United States and around the world.

Course Length: One semester

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

HST020: PSYCHOLOGY

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 psychology terms 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

OTH031: ARCHAEOLOGY

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

OTH032: ASTRONOMY

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

OTH033: VETERINARY SCIENCE

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

OTH034: INTRODUCTION TO AGRISCIENCE

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

OTH093: INTRODUCTION TO CULINARY ARTS

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

HLT212: INTRODUCTION TO MEDICAL TERMINOLOGY

This course simplifies the process of memorizing complex medical terminology by focusing on the important word parts—common prefixes, suffixes and root words—that provide a foundation for learning hundreds of medical terms. Organized by body systems, the course follows a logical flow of information: an overview of the body system's structure and functions, a summary of applicable medical specialties, and ultimately pathology, diagnostic, and treatment procedures.

Course Length: One semester

SCI321: ANATOMY & PHYSIOLOGY 1

This is the first semester of a two semester course. The course provides a thorough introduction to the basics required for the study of the human body and how it functions. This course walks students step by step from a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts and their locations, to an overall review of human development and body processes. In addition, diseases and disorders are integrated throughout the course, to link physiology with anatomy.

Course Length: One semester

SCI322: ANATOMY & PHYSIOLOGY 2

This is the second semester of a two semester course. The course continues to provide a thorough introduction to the basics required for the study of the human body and how it functions. This course walks students step by step from a general introduction to life functions, the terminology, and

phonetic pronunciations used to describe body parts and their locations, to an overall review of human development and body processes. In addition, diseases and disorders are integrated throughout the course, to link physiology with anatomy.

Course Length: One semester

ART ELECTIVES

(These courses fulfill the Elective Credit Requirement)

ART500: AP® ART HISTORY

AP® Art History is an introduction to major works of art and the concepts needed to understand them. This online course fosters in-depth, holistic understanding of the history of art from a global perspective, and builds understanding of the place of art within broader historical, cultural, religious, and political frameworks. The functions and effects of art are the main focus. This AP® Art History course is designed to be equivalent with a two-semester introductory college- or university-level art history survey course.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

Prerequisite: There are no specific Prerequisite for this AP® Art History course. Interested students who have demonstrated success in humanities courses, such as history and literature, or in studio art courses are encouraged to participate.

ART010: FINE ART

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

Course Length: Two semesters. Semesters A and B should be taken consecutively and not simultaneously.

ART020: MUSIC APPRECIATION

This course introduces students to the history, theory, and genres of music. The first semester covers basic music theory concepts as well as early musical forms, classical music, patriotic and nationalistic music, and 20th century music. The second semester presents modern traditions, including American jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop. The course explores the history of music, from the surviving examples of rudimentary musical forms



| | CORE | COMPREHENSIVE | HONORS | AP® |
|---|------|---------------|--------|-----|
| ENGLISH 4 Credits | | | | |
| Literary Analysis and Composition I | | ● | ● | |
| Literary Analysis and Composition II | | ● | ● | |
| American Literature | | ● | ● | |
| British and World Literature | | ● | ● | |
| AP® English Language and Composition | | | | ● |
| AP® English Literature and Composition | | | | ● |
| MATH 4 Credits | | | | |
| Algebra I | ● | ● | ● | |
| Geometry | ● | ● | ● | |
| Algebra II | ● | ● | ● | |
| Practical Math | ● | | | |
| Pre-Calculus** | | ● | | |
| Trigonometry** | | ● | | |
| Probability and Statistics** | | ● | | |
| Calculus | | ● | | |
| AP® Calculus AB | | | | ● |
| AP® Calculus BC | | | | ● |
| AP® Statistics | | | | ● |
| SCIENCE 4 Credits (must include Biology) | | | | |
| Physical Science | ● | | | |
| Earth Science | ● | ● | ● | |
| Biology | ● | ● | ● | |
| Chemistry | ● | ● | ● | |
| Physics | | ● | ● | |
| AP® Biology | | | | ● |
| AP® Chemistry | | | | ● |
| AP® Environmental Science | | | | ● |
| Environmental Science** | | ● | | |
| Forensic Science** | | ● | | |
| HISTORY AND SOCIAL SCIENCES 4 Credits | | | | |
| World History | | ● | ● | |
| Modern World Studies | | ● | ● | |
| U.S. History | | ● | ● | |
| U.S. Government and Politics** | | ● | | |
| U.S. and Global Economics** | | ● | | |
| AP® U.S. History | | | | ● |
| AP® U.S. Government and Politics** | | | | ● |
| AP® Macroeconomics** | | | | ● |
| AP® Microeconomics** | | | | ● |
| AP® Psychology** | | | | ● |
| AP® World History | | | | ● |
| HEALTH AND P.E. 1 Credit (.5 credit each) | | | | |
| Skills for Health* | | ● | | |
| Physical Education* | | ● | | |
| WORLD LANGUAGES 2 Credits (of same language) | | | | |
| Spanish I | | ● | | |
| Spanish II | | ● | | |
| Spanish III | | ● | | |
| AP® Spanish Language and Culture | | | | ● |
| French I | | ● | | |
| French II | | ● | | |
| French III | | ● | | |
| AP® French Language | | | | ● |
| German I | | ● | | |
| German II | | ● | | |
| Latin I | | ● | | |
| Latin II | | ● | | |
| Chinese I | | ● | | |
| Chinese II | | ● | | |

(continued on the next page)

K-8: K12 offers online courses for grades K-8 across seven disciplines: language arts/English, math, science, history, world languages, art, and music—plus new adaptive courses in reading remediation and K-5 math. For a complete listing with full descriptions, visit K12.com/k8curriculum. Course offerings are subject to change. For the current list of courses with descriptions, please visit icademy.com/academics/curriculum.

PC = for PC only (not Mac)

= number of credits from each subject area needed to graduate

* = one-semester course (.5 credits)

+ = course offered in specific cohorts of the fall and spring semesters

• All courses, unless otherwise noted, are two semesters and one credit.

• Course materials will be available in various physical and/or digital formats.

• Please note that course availability varies based on time of year.



COURSE LIST UPPER SCHOOL

| | FALL | SPRING |
|--|------|--------|
| BUSINESS MANAGEMENT ELECTIVES | | |
| Introduction to Entrepreneurship I* | ● | ● |
| Introduction to Entrepreneurship II* | | ● |
| Introduction to Marketing I* | ● | ● |
| Introduction to Marketing II* | | ● |
| International Business* | ● | |
| Sports and Entertainment Marketing* | | ● |
| Consumer Math | ● | ● |
| Personal Finance* | ● | ● |
| General Accounting I * | ● | |
| General Accounting II* | | ● |
| TECHNOLOGY AND COMPUTER SCIENCE ELECTIVES | | |
| Adobe Dreamweaver* | | ● |
| Adobe Photoshop* | | ● |
| 2D Animation* | ● | |
| 3D Modeling* | | ● |
| Audio Engineering* | ● | |
| Digital Arts I* | ● | |
| Digital Arts II* | | ● |
| Digital Photography I* | ● | |
| Digital Photography II* | | ● |
| Image Design & Editing* | ● | |
| Introduction to Computer Science* ^{PC} | ● | ● |
| Engineering Fundamentals I* | ● | ● |
| Java™ Programming I* | ● | |
| Java™ Programming II* | | ● |
| Programming Logic and Design* | | ● |
| Web Design* | ● | |
| C++ Programming* ^{PC} | ● | ● |
| Game Design 1* | ● | ● |
| Microsoft® Word® 2016* | | ● |
| Microsoft® Excel® 2016* | ● | |
| Microsoft® PowerPoint® 2016* | | ● |
| CAREER TECHNICAL EDUCATION ELECTIVES | | |
| Careers in Criminal Justice* | ● | |
| Law and Order* | | ● |
| Journalism* | ● | ● |
| Anthropology* | ● | ● |
| Psychology* | ● | ● |
| Archeology* | ● | |
| Astronomy* | | ● |
| Veterinary Science* | ● | |
| Introduction to Agriscience* | | ● |
| Introduction to Culinary Arts* | ● | ● |
| Introduction to Medical Terminology* | ● | ● |
| Anatomy and Physiology 1* | ● | |
| Anatomy and Physiology 2* | | ● |
| ART ELECTIVES | | |
| Fine Art Semester 1 | ● | |
| Fine Art Semester 2 | | ● |
| Music Appreciation Semester 1 | ● | |
| Music Appreciation Semester 2 | | ● |
| Creative Writing Semester 1 | ● | |
| Creative Writing Semester 2 | | ● |
| AP® Art History A | ● | |
| AP® Art History B | | ● |
| Gothic Literature* | ● | ● |
| STUDENT DEVELOPMENT ELECTIVES | | |
| Reaching Your Academic Potential* | ● | ● |
| Achieving Your Career and College Goals* | ● | ● |

| | FALL | SPRING |
|---|------|--------|
| STUDENT DEVELOPMENT ELECTIVES (cont'd) | | |
| Service Learning* | ● | ● |
| Public Speaking* | ● | ● |
| Nutrition and Wellness* | ● | ● |
| Health Sciences* | ● | ● |
| REMEDIATION ELECTIVES | | |
| English Foundations I | ● | ● |
| English Foundations II | ● | ● |
| Pre-Algebra | ● | ● |
| Math Foundations I | ● | ● |
| Math Foundations II | ● | ● |

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^{PC} = for PC only (not Mac[®]) * = one-semester course (.5 credits)

[#] number of credits from each subject area needed to graduate

- All courses, unless otherwise noted, are two semesters and one credit.
- Course materials will be available in various physical and/or digital formats.
- Please note that course availability varies based on time of year.



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K12 is not able to accept enrollments from students located in the following countries: United Arab Emirates, Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, Lebanon, Burma (Myanmar), Cuba, Iran, Sudan, Syria, Western Balkans, Belarus, North Korea, Democratic Republic of Congo, Iraq, and member countries of the EU.

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