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

ENGLISH and LANGUAGE ARTS

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.

LANGUAGE ARTS GREEN (1)

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

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

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

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

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

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

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

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

LANGUAGE ARTS PURPLE (3)

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

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

- Handwriting: Students will further develop their handwriting skills through Handwriting Without Tears. In Semester 1, students will work in the Cursive Handwriting book. In Semester 2, students will practice cursive on their own as they complete assigned work in other Language Arts programs.

- Spelling: There are 36 units in K12 Spelling. Each unit contains five lessons. The first lesson of a unit introduces new spelling words. In the second and third lessons, you and your students work together to practice the spelling words introduced in the first lesson. These first three lessons are offline. The fourth lesson in each unit is an online review activity. Finally, the fifth lesson consists of an offline Unit Checkpoint that checks students’ mastery of the spelling words. Each lesson is designed to take approximately 15 minutes. Students will master the spelling skills needed to read and write proficiently.

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

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

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

LANGUAGE ARTS 5

This course provides structured lessons on reading comprehension; analysis; composition; vocabulary; and grammar, usage, and mechanics. Through emphasis on spelling, students learn relationships between sounds and spellings in words and affixes. 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.

MAR READING I (ADAPTIVE REMEDIATION)

Mastery. Acceleration. Remediation. . MAR courses are for students in the third to fifth grades who are struggling readers. MAR 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.

MATHPLUS BLUE (K)

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

MATH PLUS GREEN (1)

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

**MATH PLUS ORANGE (2)**

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

**MATH PLUS PURPLE (3)**

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course provides a quick overview of whole number addition and subtraction, but has a greater focus on whole number multiplication and division, encompassing early algebraic thinking. Decimals are studied in relationship to place value and money, and fractions are addressed through multiple representations and probability. Students are introduced to specific methods and strategies to help them become more effective problem solvers. Geometry and measurement are addressed through the study of two- and three-dimensional shapes, early work with perimeter, area, and volume, and applying measuring techniques to time, length, capacity, and weight. This course includes standards-based tasks, digital literacy skills, and assessment questions.

**MATH PLUS RED (4)**

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course moves into applications and properties of operations. Students work with simple fraction and decimal operations, which are applied in the study of measurement, probability, and data, and mathematical reasoning techniques. Students begin the study of equivalencies between fractions and decimals on the number line and early work with integers. Algebraic thinking is developed as students work with variables, coordinate graphing, and formulas in problems involving perimeter, area, and rate. Geometry is extended into greater classification of shapes and work with lines, angles, and rotations.

**MATH PLUS YELLOW (5)**

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course investigates whole numbers through practical situations in rounding, exponents and powers, and elementary number theory. Students begin addition and subtraction of integers and apply all of their work with rational numbers to problem solving experiences. The study of algebra includes work with variables, solving equations and inequalities, using formulas within geometry and measurement, and work within the coordinate system. The study of geometry encompasses properties of lines, angles, two- and three-dimensional figures, and formal constructions and transformations.

**SCIENCE**

**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).
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.

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).

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.

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.

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**

**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.

**ART 1**

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

**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.

**ART 3**

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

**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, GRADE K**

Explore and build foundational musical skills with Spotlight on Music from McGraw-Hill. This course offers a variety of learning activities that include singing, dancing, virtual instruments, listening maps, and authentic sound recordings. Six units in the course are organized into four sections: Spotlight on Concepts, Spotlight on Music Reading, Spotlight on Performance, and Spotlight on Celebrations. Students learn about these musical elements: duration, pitch, design, tone color, expressive qualities and cultural context. Students explore beat, meter, rhythm, melody, harmony, tonality, vocal/instrumental tone color, texture, dynamics, tempo, articulation, style, and music background.

**SPOTLIGHT ON MUSIC, GRADE 1**

Explore and build foundational musical skills with Spotlight on Music from McGraw-Hill. This course offers a variety of learning activities that include singing, dancing, virtual instruments, listening maps, and authentic sound recordings. Six units in the course are organized into four sections: Spotlight on Concepts, Spotlight on Music Reading,
Spotlight on Performance, and Spotlight on Celebrations. Students learn about these musical elements: duration, pitch, design, tone color, expressive qualities and cultural context. Students explore beat, meter, rhythm, melody, texture, form, tone color, dynamics, tempo, style, and music background.

SPOTLIGHT ON MUSIC, GRADE 2
Explore and build foundational musical skills with Spotlight on Music from McGraw-Hill. This course offers a variety of learning activities that include singing, dancing, virtual instruments, listening maps, and authentic sound recordings. Six units in the course are organized into four sections: Spotlight on Concepts, Spotlight on Music Reading, Spotlight on Performance, and Spotlight on Celebrations. Students learn about these musical elements: duration, pitch, design, tone color, expressive qualities and cultural context. Students explore beat, meter, rhythm, melody, harmony, tonality, texture, form, tone color, dynamics, tempo, articulation, style, and music background.

SPOTLIGHT ON MUSIC, GRADE 3
Explore and build foundational musical skills with Spotlight on Music from McGraw-Hill. This course offers a variety of learning activities that include singing, dancing, virtual instruments, listening maps, authentic sound recordings and playing the recorder. Six units in the course are organized into four sections: Spotlight on Concepts, Spotlight on Music Reading, Spotlight on Performance, and Spotlight on Celebrations. Students learn about these musical elements: duration, pitch, design, tone color, expressive qualities and cultural context. Students explore beat, meter, rhythm, melody, harmony, tonality, texture, form, tone color, dynamics, tempo, articulation, style, and music background.

SPOTLIGHT ON MUSIC, GRADE 4
Explore and build foundational musical skills with Spotlight on Music from McGraw-Hill. This course offers a variety of learning activities that include singing, dancing, virtual instruments, listening maps, authentic sound recordings and playing the recorder. Six units in the course are organized into four sections: Spotlight on Concepts, Spotlight on Music Reading, Spotlight on Performance, and Spotlight on Celebrations. Students learn about these musical elements: duration, pitch, design, tone color, expressive qualities and cultural context. Students explore beat, meter, rhythm, melody, harmony, tonality, texture, form, tone color, dynamics, tempo, articulation, style, and music background.

SPOTLIGHT ON MUSIC, GRADE 5
Explore and build foundational musical skills with Spotlight on Music from McGraw-Hill. This course offers a variety of learning activities that include singing, dancing, virtual instruments, listening maps, authentic sound recordings and playing the recorder. Six units in the course are organized into four sections: Spotlight on Concepts, Spotlight on Music Reading, Spotlight on Performance, and Spotlight on Celebrations. Students learn about these musical elements: duration, pitch, design, tone color, expressive qualities and cultural context. Students explore beat, meter, rhythm, melody, harmony, tonality, texture, form, tone color, dynamics, tempo, articulation, style, and music background.

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 plaît 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)
ORIENTATION

WELCOME TO ONLINE LEARNING

Families begin the school year with one of two Welcome to Online Learning courses targeted to grades K–2 or 3–5. The courses provide 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.
Course materials will be available in various physical and/or digital formats.
ENGLISH and LANGUAGE ARTS

GRADE 6 LANGUAGE ARTS
This course sharpens reading comprehension skills, engages readers in literary analysis, and offers a variety of literature to suit diverse tastes. Through a varied selection of classic stories, plays, and poems, many of which highlight exemplary virtues, students develop skills of close reading and literary analysis while considering important human issues and challenging ideas. They come to appreciate the writer’s craft as they consider the feelings, thoughts, and ideas of characters, and make connections between literature and life. Students also learn to read for information in nonfiction texts. Novels: Students read novels of their choice from a selection of award-winning works by renowned authors, from a variety of genres: fantasy, science fiction, historical fiction, realistic fiction, and mystery. (Novels are not part of the standard materials, but are readily available at the library or for purchase in bookstores or online.)

GRADE 7 LANGUAGE ARTS
This course sharpens reading comprehension skills, engages readers in literary analysis, and offers a variety of literature to suit diverse tastes. Through a varied selection of classic stories, plays, and poems, many of which highlight exemplary virtues, students develop skills of close reading and literary analysis while considering important human issues and challenging ideas. They come to appreciate the writer’s craft as they consider the feelings, thoughts, and ideas of characters, and make connections between literature and life. Students also learn to read for information in nonfiction texts. Novels: Students read novels of their choice from a selection of award-winning works by renowned authors, from a variety of genres: fantasy, science fiction, historical fiction, realistic fiction, and mystery. (Novels are not part of the standard materials, but are readily available at the library or for purchase in bookstores or online.)

GRADE 8 LANGUAGE ARTS
Designed to encourage the appreciation of classic literature, this strand exposes students to both canonical works and less familiar texts and offers a variety of literature to suit diverse tastes. Whether they are reading poetry, drama, autobiography, short stories, or novels, students will be guided through close readings so that they can analyze the formal features of literary texts. Lessons also provide rich background and information to encourage contextual exploration. In this literature program, students read “what's between the lines” to interpret literature and they go beyond the book to discover how the culture in which a work of literature was created contributes to the themes and ideas it conveys. Students will consider how the struggles, subjects, and ideas they find within these works are relevant to everyday living. Novels: Students choose four out of seven offered titles, including Jane Eyre by Charlotte Brontë, Great Expectations by Charles Dickens, Animal Farm by George Orwell, and To Kill a Mockingbird by Harper Lee. Drama: Romeo and Juliet by William Shakespeare Short stories by Langston Hughes, Shirley Jackson, Jack London, Guy de Maupassant, Edgar Allan Poe, James Thurber, and more. Poetry by W.H. Auden, Gwendolyn Brooks, E.E. Cummings, Emily Dickinson, Robert Frost, Gerard Manley Hopkins, James Weldon Johnson, John Keats, Henry Wadsworth Longfellow, Pablo Neruda, Octavio Paz, William Shakespeare, Dylan Thomas, William Butler Yeats, and more. Autobiography: Selections by Mark Twain, Ernesto Galarza, and Maya Angelou; Narrative of the Life of Frederick Douglass or Anne Frank: Diary of a Young Girl.

MATH

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

**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.

**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.

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

**PHYSICAL SCIENCE**

The Physical Science program introduces students to many aspects of the physical world, focusing first on chemistry and then on physics. The course provides an overview of the physical world and gives students tools and concepts to think clearly about atoms, molecules, chemical reactions, motion, electricity, light, and other aspects of chemistry and physics. Among other subjects, students study the structure of atoms; the elements and the Periodic Table; chemical reactions; forces, including gravitational, motion, acceleration, and mass; and energy, including light, thermal, electricity, and magnetism.
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. Building on the award-winning series A History of US, the course guides students through critical episodes in the story of America. Students investigate Native American civilizations; follow the path of European exploration and colonization; assess the causes and consequences of the American Revolution; examine the Constitution and the growth of the new nation; and analyze what led to the Civil War and its aftermath.

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. Building on the award-winning series A History of US, the course guides students through critical episodes in the story of America. Students examine the impact of the settlement of the American West; investigate the social, political, and economic changes that resulted from industrialization; explore the changing role of the U.S. in international affairs from the late nineteenth century through the end of the Cold War; and trace major events and trends in the United States from the Cold War through the first decade of the twenty-first century.

MIDDLE SCHOOL WORLD HISTORY I
In this first part of a survey of world history from prehistoric to modern times, 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, online lessons and assessments complement the second volume of The Human Odyssey. 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 is designed to complement Middle School American History Since 1865. Following the same historical timeline, lessons include an introduction to the artists, cultures, and great works of American art and architecture from the end of the Civil War through modern times. Students will investigate paintings done in various styles, from Impressionist to Pop; learn about modern sculpture and folk art; discover how photographers and painters have inspired one another; examine examples of modern architecture, from skyscrapers to art museums; and create artworks inspired by works they learn about.

INTERMEDIATE WORLD ART I
Intermediate World Art I is designed to complement Middle School World History I. Following the same historical timeline, lessons include an introduction to the artists, cultures, and great works of world art and architecture from ancient through medieval times. Students will investigate how artists from different civilizations used various techniques, from painting to mosaic; examine elements of design and styles of decoration, from the spiral to the solar disk; and explore some of the best preserved works from ancient tombs, including the treasures of Egypt’s King Tut.
INTERMEDIATE WORLD ART II

Intermediate World Art II is designed to complement Middle School World History II. Following the same historical timeline, lessons include an introduction to the artists, cultures, and great works of world art and architecture from the Renaissance through modern times. Students will study various works of art from the Renaissance and beyond; discover great works of art and see how they influenced later artists; compare and contrast works from many civilizations, from paintings to sculpture, architecture, book covers, prints, and more; and create artworks inspired by works they learn about.

MUSIC

SPOTLIGHT ON MUSIC 6

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

Note: The student guides are not available in a pre-printed format and will need to be printed from the Online School (OLS). Teacher guides are not available in any format. Parents may use the student guide to view student lesson information.

SPOTLIGHT ON MUSIC 7

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

Note: The student guides are not available in a pre-printed format and will need to be printed from the Online School (OLS). Teacher guides are not available in any format. Parents may use the student guide to view student lesson information.

SPOTLIGHT ON MUSIC 8

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

Note: The teacher and student guides are not available in a pre-printed format and will need to be printed from the Online School (OLS).

WORLD LANGUAGES

MIDDLE SCHOOL SPANISH 1

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

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

Prerequisite: Middle School Spanish 1 (or equivalent)

MIDDLE SCHOOL FRENCH 2

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

Prerequisite: Middle School French 1 (or equivalent)

MIDDLE SCHOOL FRENCH 1

This fun, interactive course for middle school students is filled with diverse, multimedia language activities. 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. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Note: Also suitable for students of other ages, depending upon background and experience.
MIDDLE SCHOOL GERMAN 1

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

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. 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 which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Prerequisite: Middle School German 1 (or equivalent)
ORIENTATION

WELCOME TO ONLINE LEARNING

Families begin the school year with a Welcome to Online Learning course targeted to grades 6–8. The courses provide 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.
<table>
<thead>
<tr>
<th>COURSE LIST</th>
<th>MIDDLE SCHOOL</th>
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</thead>
</table>

**ENGLISH/LANGUAGE ARTS**
- Grade 6 Language Arts
- Grade 7 Language Arts
- Grade 8 Language Arts

**MATH**
- Math 6
- Math 7
- Math 8
- Fundamentals of Geometry and Algebra
- 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

**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

**ORIENTATION**
- Welcome to Online Learning Grades 6–8

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 credits</td>
</tr>
<tr>
<td>Math (Algebra 1 and higher)</td>
<td>4 credits</td>
</tr>
<tr>
<td>Science (must include 2 lab</td>
<td>4 credits</td>
</tr>
<tr>
<td>science credits)</td>
<td>(must include 1 credit of U.S. History)</td>
</tr>
<tr>
<td>History and Social Sciences</td>
<td>4 credits</td>
</tr>
<tr>
<td>World Languages</td>
<td>2 credits</td>
</tr>
<tr>
<td>Physical Education</td>
<td>0.5 credit</td>
</tr>
<tr>
<td>Health</td>
<td>0.5 credit</td>
</tr>
<tr>
<td>Electives</td>
<td>5 credits</td>
</tr>
<tr>
<td>Total</td>
<td>24 Credits</td>
</tr>
</tbody>
</table>

Students must complete a minimum of six (6) credits and must spend one academic year enrolled as a full-time student to be eligible for a 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 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 help 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. Most of our AP® courses include a companion AP® Exam Review component; that provides practice for multiple choice exams and essay writing, and it provides students an individualized study plan based on their results.

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

**ENGLISH**

(These courses fulfill the English Credit Requirement)

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

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

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

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

**Course Length:** Two semesters. 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:** Middle school English/language arts

*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.*
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. Literary selections range from classic works such as Shakespeare’s Romeo and Juliet to contemporary pieces by authors such as Maya Angelou.

**Language Skills:** Students broaden their composition skills by examining model essays in various genres by student and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities. 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. A passing grade in Semester A is required to enroll in the B semester.

**Prerequisites:** Intermediate English A and B (or equivalents)

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

ENG104: HONORS LITERARY ANALYSIS AND COMPOSITION I

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

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

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

**Course Length:** Two semesters. 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:** ENG102: Literary Analysis and Composition I (or equivalent)

*Note: Students who have taken Intermediate English A or B or Middle School Literary Analysis and Composition courses should not enroll in this course.*

ENG202: LITERARY ANALYSIS AND COMPOSITION II (CORE)

In this course, students build on their language skills while reading classic and modern works of literature and improving their writing skills.

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

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

**Course Length:** Two semesters. 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:** ENG102: Literary Analysis and Composition I (or equivalent)

*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. A passing grade in Semester A is required to enroll in the B semester.

**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. A passing grade in Semester A is required to enroll in the B semester.

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

ENG302: AMERICAN LITERATURE (CORE)

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

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

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

**Course Length:** Two semesters. 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:** ENG202: Literary Analysis and Composition II (or equivalent)

ENG303: AMERICAN LITERATURE (COMPREHENSIVE)

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.
Course Length: Two semesters. 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: ENG203: Literary Analysis and Composition II (or equivalent)

ENG304: HONORS AMERICAN LITERATURE

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

Course Length: Two semesters. 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.

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

ENG402: BRITISH AND WORLD LITERATURE (CORE)

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

Course Length: Two semesters. 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: ENG302: American Literature (or equivalent)

ENG403: BRITISH AND WORLD LITERATURE (COMPREHENSIVE)

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

Course Length: Two semesters. 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: Successful completion of ENG500 Advanced Placement English Language and Composition

Prerequisite: ENG303: American Literature (or equivalent)

ENG404: HONORS BRITISH AND WORLD LITERATURE

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

Course Length: Two semesters. 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.

Prerequisites: 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 and for further study in communications, creative writing, journalism, literature, and composition.

Course Length: Two semesters

Prerequisites: 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 and for further study in creative writing, communications, journalism, literature, and composition.

Course Length: Two semesters

Prerequisite: Successful completion of ENG500 Advanced Placement English Language and Composition
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. A passing grade in Semester A is required to enroll in the B semester.

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. A passing grade in Semester A is required to enroll in the B semester.

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. A passing grade in Semester A is required to enroll in the B semester.

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. A passing grade in Semester A is required to enroll in the B semester.

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. A passing grade in Semester A is required to enroll in the B semester.

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. A passing grade in Semester A is required to enroll in the B semester.

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. A passing grade in Semester A is required to enroll in the B semester.

Prerequisites: MTH122: Algebra I and MTH202: Geometry (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. A passing grade in Semester A is required to enroll in the B semester.

Prerequisite: MTH123: Algebra I and Geometry

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. A passing grade in Semester A is required to enroll in the B semester.

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. A passing grade in Semester A is required to enroll in the B semester.

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:** MTH303: 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. A passing grade in Semester A is required to enroll in the B semester.

**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

**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

**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 and further studies in science, engineering, and mathematics.

**Course Length:** Two semesters

**Prerequisites:** MTH204: Honors Geometry, MTH304: Honors Algebra II, MTH433: 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 hands-on laboratory investigations.

**Course Length:** Two semesters

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

**SCI12: EARTH SCIENCE (CORE)**

This course provides students with a solid earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, 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. A passing grade in Semester A is required to enroll in the B semester.

**Prerequisite:** Middle School Earth Science (or equivalent)

**SCI13: 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. Lab kits contain all lab materials that cannot easily be found in the home.

**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:** Middle School Earth Science (or equivalent)

**SCI14: 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 creating a weather website, a research paper, a persuasive paper, and virtual spectroscopy laboratory.

**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.

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

**SCI202: BIOLOGY (CORE)**

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

**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:** 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. A passing grade in Semester A is required to enroll in the B semester.

**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. A passing grade in Semester A is required to enroll in the B semester.

**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, hands-on 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. A passing grade in Semester A is required to enroll in the B semester.
Prerequisites: SCI202: Biology and MTH122: Algebra I (or equivalents) and enrolled in MTH302 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, hands-on 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. A passing grade in Semester A is required to enroll in the B semester.
Prerequisites: SCI203: Comprehensive Biology and MTH123: Comprehensive Algebra I (or equivalents) and 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. A passing grade in Semester A is required to enroll in the B semester.
Prerequisites: SCI203: Comprehensive Biology and MTH123: Comprehensive Algebra I (or equivalents) and 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, virtual hands-on 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. A passing grade in Semester A is required to enroll in the B semester.
Prerequisites: MTH303: Algebra II and Pre-Calculus/Trigonometry (or equivalents)

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, virtual hands-on 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. A passing grade in Semester A is required to enroll in the B semester.
Prerequisites: MTH303: Algebra II or MTH304: Honors Algebra II and Pre-Calculus/Trigonometry (or equivalents), and teacher/school counselor recommendation

SCI500: AP® BIOLOGY
This course guides students to a deeper understanding of biological concepts, including the diversity and unity of life, energy and the processes of life, homeostasis, and genetics. Students learn about regulation, communication, and signaling in living organisms as well as interactions of biological systems. Students carry out a number of learning activities, including readings, interactive exercises, extension activities, hands-on laboratory experiments, and practice assessments. These activities are designed to help students gain an understanding of the science process and critical-thinking skills necessary to answer questions on the AP® Biology Exam. The content aligns to the sequence of topics recommended by the College Board.
Course Length: Two semesters. 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.
Prerequisites: Success in SCI204: Honors Biology and SCI303: Comprehensive Chemistry and MTH124: Honors Algebra I (or equivalents), and teacher/school counselor recommendation required; MTH304: Honors Algebra II highly recommended
SCI10: AP® CHEMISTRY

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

Course Length: Two semesters. 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.

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

SCI30: AP® ENVIRONMENTAL SCIENCE

AP® Environmental Science is equivalent to a one-semester introductory college-level environmental science course designed to prepare students for the College Board AP® Environmental Science Exam. This course meets guidelines outlined in the College Board’s AP® Environmental Science Course Description (2013) and incorporates the most recent changes required of course content and preparation for the AP® Environmental Science Exam. AP® Environmental Science is interdisciplinary, incorporating various topics from different disciplines and areas of science. This course aims to provide students with scientific principles, concepts, and methodologies needed to understand interrelationships in the natural world, identify and analyze environmental problems (natural and human-made), evaluate the relative risks associated with these problems, and examine alternative solutions to resolve or prevent these problems.

Course Length: Two semesters

Prerequisites: AP® Environmental Science is a good choice for interested students who have completed two years of high school laboratory science such as a year of life science (e.g., biology) and a year of physical science (e.g., chemistry). It is also recommended that students who enroll in this course have taken at least one year of algebra and have completed a course in earth science.

SCI10: 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, uniting 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: Two semesters

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)

HST102: WORLD HISTORY (CORE)

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

Course Length: Two semesters. 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.

Prerequisites: MS American History Before 1865, MS World History I, or MS World History II (or equivalents)
HST103: WORLD HISTORY (COMPREHENSIVE)

In this comprehensive survey of world history from prehistoric to modern times, students focus in depth on the developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement World History: Our Human Story, an embedded textbook written and published by . 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. A passing grade in Semester A is required to enroll in the B semester.

Prerequisites: MS American History Before 1865, MS World History I, or MS 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 written and published by . 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. A passing grade in Semester A is required to enroll in the B semester.

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

HST202: MODERN WORLD STUDIES (CORE)

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

Course Length: Two semesters. 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.

Prerequisites: MS World History I or MS 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. A passing grade in Semester A is required to enroll in the B semester.

Prerequisites: MS World History I or MS 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. A passing grade in Semester A is required to enroll in the B semester.

**Prerequisites:** MS World History I or MS World History II (or equivalents), success in previous social studies course, and teacher/school counselor recommendation

**HST302: U.S. HISTORY (CORE)**

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

**Course Length:** Two semesters. 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:** MS World History I or HST102: World History (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 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. A passing grade in Semester A is required to enroll in the B semester.

**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. A passing grade in Semester A is required to enroll in the B semester.

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

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

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

**Course Length:** One semester

**Prerequisite:** HST302: U.S. History (or equivalent) is recommended, but not required

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

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

**Course Length:** One semester

**Prerequisite:** HST303: U.S. History (or equivalent) is recommended, but not required

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

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

**Course Length:** One semester

**Prerequisite:** HST402: U.S. Government and Politics (or equivalent) is recommended, but not required

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

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

**Course Length:** One semester

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

**HST500: AP® U.S. HISTORY**

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

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

**HST520: AP® MACROECONOMICS**

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

**Course Length:** One semester

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

**HST530: AP® MICROECONOMICS**

This course is the equivalent of an introductory college-level course. Students explore the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students learn why the same product can cost different amounts at different stores, in different cities, and at different times. Students also learn to spot patterns in economic behavior and learn how to use those patterns to explain buyer and seller behavior under various conditions. Lessons promote an understanding of the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in the economy. Students prepare for the AP® Exam and for further study in business, history, and political science.
**Course Length:** One semester  
**Prerequisites:** MTH304: Honors Algebra II (or equivalent), HST 520 AP® Macroeconomics, 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 phenomena, 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. A passing grade in semester A is required to enroll in the B semester.  
**Prerequisites:** Success in previous history course and teacher/school counselor recommendation

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**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. 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.

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. 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.

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. 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: WLG200: Spanish II (or equivalent)

WLG400: SPANISH IV
Fourth-year Spanish expands on the foundation of Spanish grammar and vocabulary that students acquired in the first three courses. As with all the earlier offerings, this culminating-level Spanish language course conforms to the standards of the American Council on the Teaching of Foreign Languages (ACTFL). Students continue to sharpen their speaking, listening, reading and writing skills while also learning to express themselves on topics relevant to Spanish culture. The two-semester course is divided into ten units whose themes include people, achievements, wishes and desires, activities, celebrations, possibilities, the past, the arts, current events, and wrap up and review.
Course Length: Two semesters. 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: WLG300: Spanish III (or equivalent)

WLG500: AP® SPANISH LANGUAGE AND CULTURE

The AP® Spanish Language and Culture course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical and communicative skills. The 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. A passing grade in Semester A is required to enroll in the B semester.

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. 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.

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

WLG210: FRENCH II

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

Course Length: Two semesters. 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.

Prerequisites: WLG210: 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. 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: WLG210: French II (or equivalent)

WLG410: FRENCH IV

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

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: WLG310: French III (or equivalent)

WLG510: AP® FRENCH LANGUAGE AND CULTURE

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

Course Length: Two semesters. 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.

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

WLG120: GERMAN I

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

Course Length: Two semesters. 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.

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 Germanspeaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters. 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.

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

WLG320: GERMAN III

This course expands the scope of concepts and information that students mastered in the German I and II courses and aligns with national ACTFL standards. Students learn increasingly complex grammatical constructions such as present, imperfect, perfect, and future tenses; reflexive and modal verbs; prepositions; conjunctions; relative pronouns; and adjective endings. Unit themes in this two-semester course include vacations, travel, leisure time, healthy living, body parts and ailments, family members, rights and responsibilities, household chores, university study, military service, personal relationships, the importance of appearance, emotions, fairy tales, and animals. Unit activities blend different forms of communication and culture.

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: WLG220: German II (or equivalent)

WLG420: GERMAN IV

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

Course Length: Two semesters. 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: WLG320: German III (or equivalent)
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. Students are inspired by experiences of finance professionals and stories of everyday people and the choices they make to manage their money.
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. Students hear inspirational stories of teen entrepreneurs who have turned their ideas into reality, and then they plan and execute their own business.
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 refine their technology and communication skills in speaking, writing, networking, negotiating, and listening. They enhance their employability skills by preparing job-related documents, developing interviewing skills, and learning about hiring, firing, and managing employees. Students develop a complete business plan and a presentation for potential investors.
Course Length: One semester
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
Have you ever wished to play sports professionally? Have you dreamed of one day becoming an agent for a celebrity entertainer? If you answered yes to either question, then believe it or not, you’ve been fantasizing about entering the exciting world of sports and entertainment marketing. Although this particular form of marketing bears some resemblance to traditional marketing, there are many differences as well—including a lot more glitz and glamour! In this course, you’ll have the opportunity to explore basic marketing principles and delve deeper into the multi-billion dollar sports and entertainment marketing industry.
You’ll learn about how professional athletes, sports teams, and well known entertainers are marketed as commodities and how some of them become billionaires as a result. If you’ve 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, then this course will introduce you to 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. A passing grade in Semester A is required to enroll in the B semester.

**BUS111: GENERAL ACCOUNTING I**

& **BUS112: GENERAL ACCOUNTING II**

These courses provide 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, 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.*

**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

**Software:** Audacity® version 1.3.11; Adobe® Reader®; Adobe® Flash® Player; 7-Zip compression program (all available by free download within the course)

**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

**Software:** Inkscape™ version 0.47-3; Adobe® Reader®; Adobe® Flash® Player; 7-Zip compression program (all available by free download within the course)

**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

Software: Inkscape™ version 0.47-3; Adobe® Reader®, Adobe® Flash® Player; 7-Zip compression program (all available by free download within the course)

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

Have you ever wondered how photographers take such great pictures? Have you tried to take photographs and wondered why they didn’t seem to capture that moment that you saw with your eyes? 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 today’s world, photographs are all around us, including in advertisements, on websites, and hung on our walls as art. Many of the images that we see have been created by professional photographers. In this course, we 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.

TCH038: ENGINEERING DESIGN/CAD

Computer-aided design systems are used by designers and manufacturers in virtually every industry to create engineering design solutions. In this course, students are introduced to engineering, learning the basics of CAD software: creating points, lines, other geometric forms, isometric drawings, and 3D models. They learn how to translate initial concepts into functional designs and 3D walk-throughs and explore career options in this hands-on introductory-level course.

Course Length: One semester

Software: CadStd Lite v3.7.0; Google SketchUp 7.1.482; Adobe® Reader®; Adobe® Flash® Player; 7-Zip compression program (all available by free download within the course)

System Requirements: Microsoft® Windows XP® or Windows Vista® operating system; 600 MHz or faster processor (1 GHz for Vista®); 512 MB of memory (RAM) (1 GB for Vista®); at least 2 GB of available hard drive space; 3D class video card with 128 MB of memory or higher (256 MB for Vista®)—the video card driver must support OpenGL version 1.5 or higher
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®

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TCH060: C++ PROGRAMMING

In this introductory course, students learn basic programming concepts through a series of hands-on projects. They also learn about software development careers, the software development process, and industry best practices. Using Microsoft® Visual Studio 2013, students master the building blocks of programming: functions, variables, loops, arrays, and classes.

**Course Length**: One semester

**Software**: Microsoft® Visual Studio 2013; Adobe® Reader®; Adobe® Flash® Player; 7-Zip compression program (all available by free download within the course)

**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

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TCH070: GAME DESIGN

This course is for anyone who loves gaming and wants to design and build original games from scratch. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. After learning about game genres, students learn about all aspects of the game-design process. From there, it's on to a series of increasingly challenging hands-on projects that teach all the elements of successful game development.

**Course Length**: One semester

**Software**: ClickTeam Fusion 2.5 - This software is provided by for full-time students. Part-time students can purchase software through .

**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

**Prerequisite**: MTH112: Algebra I (or equivalent)

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TCH110: INTRO 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

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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

**Software**: The Java™ course does not require any additional software. TCH411: ADOBE® DREAMWEAVER® This course
CAREER TECHNICAL EDUCATION ELECTIVES

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

Course Length: One semester

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

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 course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics in this one-semester course 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
Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe. This course introduces students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students examine the life cycle of stars, the properties of planets, and the exploration of space.

Course Length: One semester

OTH033: VETERINARY SCIENCE
As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases affect not only the animals around us, but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

Course Length: One semester

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

Course Length: One semester

CAR030: MEDICAL TERMINOLOGY
This course is an introduction to medical terminology and covers word roots, suffixes, and prefixes as it relates to various medical specialties, structures of the body, medical procedures and diseases. Students also receive practical experience in procedures performed in medical specialty facilities.

Course Length: One semester

CAR040: ANATOMY AND PHYSIOLOGY
This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous system. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships on cellular, histological and organ system level. There will be in-depth investigation of major organ systems of the body, including the immune, respiratory and digestive systems. In addition, emphasis will be placed on the regulatory mechanisms of the body as well as basic development biology and aging.

Course Length: Two semesters
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. It is designed to meet guidelines outlined in the College Board’s AP® Art History Course and Exam Description and incorporates the most recent changes required of course content in preparation for the AP® Art History Exam.

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: 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.

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

Course Length: Two semesters. 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. Part B of the course is offered in the Spring semester only.

Prerequisite: Successful completion of ENG 202: Literary Analysis and Composition II (or equivalent)

OTH036: GOTHIC LITERATURE
Since the eighteenth century, Gothic tales have influenced fiction writers and fascinated readers. This course focuses on the major themes found in Gothic literature and demonstrates how the core writing drivers produce a suspenseful environment for readers. It presents some of the recurring themes and elements found in the genre. As they complete the course, students gain an understanding of and an appreciation for the complex nature of Gothic literature.

Course Length: One semester
**STUDENT DEVELOPMENT ELECTIVES**

**OTH040: REACHING YOUR ACADEMIC POTENTIAL**

Students learn essential academic skills within the context of their learning style, individual learning environment, and long-term goals. This course helps students develop habits for more successful reading, writing, studying, communication, collaboration, time management, and concentration. It also provides insights into how the brain works when they are learning, and ways to maximize its potential.

**Course Length:** One semester

**OTH050: ACHIEVING YOUR CAREER AND COLLEGE GOALS**

Students explore their options for life after high school and implement plans to achieve their goals. They identify their aptitudes, skills, and preferences, and explore a wide range of potential careers. They investigate the training and education required for the career of their choice, and create a plan to be sure that their work in high school is preparing them for the next step. They also receive practical experience in essential skills such as searching and applying for college, securing financial aid, writing a resume and cover letter, and interviewing for a job. This course is geared toward 11th and 12th graders.

**Course Length:** One semester

**PRJ010: SERVICE LEARNING**

This project may be used in a variety of ways—as a standalone project, in conjunction with another course, or as a foundation around which to base a one-semester course. An introductory unit presents instruction on the nature of service learning. Students are taught how to identify community needs, select projects that are meaningful to themselves, apply practical skills, reflect on their learning experience, and behave responsibly in a service setting. Students then move on to design and conduct service learning experiences of their own, according to the requirements of their projects. Documents to support teachers in guiding students through the project are included.

**Project Length:** Varies

**ENG020: PUBLIC SPEAKING**

Students are introduced to public speaking as an important component of their academic, work, and social lives. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety.

**Course Length:** One semester

**OTH080: NUTRITION AND WELLNESS**

This one-semester elective course provides students with an overview of good nutrition principles that are necessary for physical and mental wellness and a long, healthy life. Instructional materials include discussions of digestion, basic nutrients, weight management, sports and fitness, and life-span nutrition. The Nutrition and Wellness course emphasizes an understanding of today’s food and eating trends and gives students the capacity to intelligently evaluate all available sources of nutrition information and make informed decisions. Unit topics include a course introduction, wellness and food choices in today’s world, digestion and major nutrients, and body size and weight management.

**Course Length:** One semester

**Prerequisite:** OTH010: Skills for Health (or equivalent)

**OTH092: HEALTH SCIENCES**

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

**Course Length:** One semester
REMEDICATION ELECTIVES

ENG001: ENGLISH FOUNDATIONS I (REMEDATION)
Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Through carefully paced, guided instruction, and graduated reading levels, students improve reading comprehension and strategies, focusing on literacy development at the critical stage between decoding and making meaning from text. Instruction and practice in writing skills help students develop their composition skills in a variety of formats. Formative assessments identify areas of weakness, lessons are prescribed to improve performance, and summative assessments track progress and skill development. If needed, students can continue their remediation of reading and writing skills with English Foundations II.

Course Length: Two semesters
Prerequisite: Teacher/school counselor recommendation

ENG011: ENGLISH FOUNDATIONS II (REMEDATION)
Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Struggling readers develop mastery in reading comprehension, vocabulary building, study skills, and media literacy. Students build confidence in writing fundamentals by focusing on composition in a variety of formats, grammar, style, and media literacy. Formative assessments identify areas of weakness, lessons are prescribed to improve performance, and summative assessments track progress and skill development.

Course Length: Two semesters
Prerequisite: Teacher/school counselor recommendation; ENG001: English Foundations I is not required

MTH011: MATH FOUNDATIONS II (REMEDATION)
Students build and reinforce foundational math skills typically found in sixth through eighth grade, achieving the computational skills and conceptual understanding needed to undertake high school math courses with confidence. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. Formative assessments identify areas of weakness and prescribe lessons to improve performance. Summative assessments track progress and skill development. This course is appropriate for use as remediation at the high school level or as a bridge to high school.

Course Length: Two semesters
Prerequisite: Teacher/school counselor recommendation; MTH001: Math Foundations I is not required

MTH12: PRE-ALGEBRA
In this course, students learn computational and problem-solving skills and the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems. The textbook provides students with a ready reference and explanations that supplement the online material. Online lessons provide demonstrations of concepts as well as interactive problems with contextual feedback.

Course Length: Two semesters
Prerequisite: Middle School Fundamentals of Geometry and Algebra, or MTH011-ALE: Math Foundations II (or equivalents)
Note: Students who have already succeeded in Middle School Pre-Algebra should not enroll in this course.

ORIENTATION

ONLINE LEARNING
The Online Learning course explains to students how the high school program works, and provides tips on successful online learning. Students are introduced to the online tools they will use during their high school experience, including the Learning Management System that delivers course assignments. Students take part in online discussions and practice submitting computer-scored assessments and other assignments to teachers. Lifelong learning skills, such as time management and study habits, are also covered. By the end of the course, students will be fully prepared to begin their high school courses.

Course Length: 6–8 hours
### ENGLISH Credits

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### MATH Credits

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### SCIENCE Credits (must include Biology)

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### HISTORY and SOCIAL SCIENCES Credits

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<td>U.S. and Global Economics+</td>
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<td>AP® U.S. Government and Politics+</td>
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### HEALTH and P.E. Credit (.5 credit each)

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### WORLD LANGUAGES Credits (of same language)

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### BUSINESS MANAGEMENT ELECTIVES

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<tr>
<td>Introduction to Entrepreneurship II</td>
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<td>⚫</td>
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<tr>
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<td>Sports and Entertainment Marketing</td>
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### TECHNOLOGY and COMPUTER SCIENCE ELECTIVES

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<tr>
<td>Digital Arts II</td>
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<tr>
<td>Digital Photography II</td>
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<td>Image Design &amp; Editing*</td>
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<td>Introduction to Computer Science*</td>
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<td>Engineering Design/CAD*</td>
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<tr>
<td>Java™ Programming II</td>
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<td>Web Design*</td>
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<tr>
<td>C++ Programming*</td>
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<td>Game Design*</td>
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### BUSINESS MANAGEMENT ELECTIVES

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<td>Law and Order*</td>
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<td>Journalism*</td>
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<td>Psychology*</td>
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<td>Introduction to Culinary Arts*</td>
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### ART ELECTIVES

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<td>Creative Writing</td>
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### STUDENT DEVELOPMENT ELECTIVES

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<tr>
<td>Achieving Your Career and College Goals*</td>
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<td>Service Learning*</td>
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<td>Public Speaking*</td>
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<td>Nutrition and Wellness*</td>
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- * = 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.