

Providence Academy



Course Catalog

2020-2021

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Parental Roles in a University-Model® School at Providence Academy Grades K4-10

Co-Instructor (Grades K4-4)- In this role, parents will receive instructions from the classroom teacher on a regular basis outlining homework assignments, follow-up study over covered material, and preparation or review needed for the next class. They will also bear the primary responsibility for direct instruction in some aspects of the course, such as handwriting, and in monitoring their child's academic progress (including the timely submission of all assignments).

Private Tutor (Grades 5-8) - In courses involving this role, parents receive instructions from the classroom teacher on a regular basis outlining homework assignments, follow-up study over covered material, and any preparation or review needed for the next class. There may even be a need to bring in an outside tutor for a particular course.

Guide for Dependent Study (Grades 6-10)- These students are at a dependent age where disciplined study habits must be developed through positive encouragement and through the students' growing awareness of personal consequences. In order for these classes to be successful, the teachers are dependent upon parents to make certain their children keep up with the course material assigned and to communicate to teachers if difficulties arise. In some cases, private tutoring might be necessary.

Course Monitor (K-10) - Some courses will involve equipment or expertise which necessitates that teaching be done in the classroom and leaves little for parents at home (Elementary Latin, Art, Music). This role, therefore, will require the least amount of time by parents, but its importance cannot be understated. The primary responsibility of parents is to track the progress of their children and to monitor how well they are doing. Are they becoming discouraged? Are they enjoying the class? What are the activities being done each day in class? What are they learning? In short, parents need to show an interest and express this to their children. If problems should develop, teachers need to know immediately.

Project Assistant (K-8)- Some courses utilizing this role would include classes with projects or science. The primary responsibility of parents is to track the progress of their children and to monitor how well they are doing. They need to have a sincere interest in their children's class activities and express that interest to their children. Furthermore, help at home might be needed occasionally in support of a particular project. If problems should develop, teachers need to know immediately.

Parent Coach (1-8) - The role of the parent coach is to provide individual practice and instruction to his/her son or daughter at home. The director or team coach will organize the group activity (choir, band, team sport, etc.), direct practices, and communicate to the parent-coaches information and directions concerning regular home practice on individual skills. This role is used primarily for competitive activities.

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LOWER SCHOOL CORE COURSES

K4 Program

K4 (Students must be 4 on or before September 1)

K4 HR

The K4 class encourages social development, motor skills and a love for God as well as is rich in academic beginnings.

K4 LA

The K4 Language Arts program prepares our youngest students for our phonics-based Kindergarten by being “reading ready” and academically mature. We do this using *The Ordinary Parents Guide to Teaching Reading* through explicit instruction of the teaching students how to identify letters, match the sounds to individual letters, and correctly form each letter of the alphabet. Our young students also delight in the pleasures of this stage of life by enjoying songs, stories, games, rhymes, recitation activities, and prayers. Lastly, the students are exposed to rich and beautiful classics such as, *Richard Scarry’s Mother Goose*, *Mr. Pines’s Purple House*, *The Little Red Hen*, and *Charlie Needs a Cloak*, which guide the themed instruction for each week.

K4 MATH

Concepts & skills taught in K4 Math (Saxon K) through the use of manipulatives and hands-on learning include skip counting, shapes, ordering numbers, patterns, measuring, time, graphs, and more. Daily the students keep track of calendar related skills by making entries in their meeting books.

Kindergarten

Kindergarten (Students must be 5 on or before September 1)

K HR

The Kindergarten class encourages social development, motor skills and a love for God as well as is rich in academic beginnings.

K LA

The Language Arts program focuses on phonemic and phonological awareness skills by helping children build upon their knowledge of letters and sounds to blend, segment, and manipulate them through the use of *The Ordinary Parents Guide to Teaching Reading*, a multi-sensory resource. Concepts to be mastered include reading CVC & CVCe patterned words and words with blends and digraphs. Additionally, students read age-appropriate, rich, and beautiful primers and practice reading sight words. The teacher engages the students by reading rich classics, which are often used to connect other subject areas and the Bible. This course will also introduce first spelling words using a step by step, multi-sensory approach with an emphasis on encoding words with the CVC pattern, digraphs, initial and ending blends. The last component of our Kindergarten LA program is handwriting and composition. Students not only engage in printing practice but learn how to form correct sentences and take part in creating class stories. The classical disciplines of narration, dictation, and copy work are used often.

K SCI

Students will be introduced to the world of science through observations as they learn from different topics within the major disciplines of science including biology, chemistry, and earth science. Furthermore, the class will develop nature study journals to record their findings.

K SS

The social studies portion is developed by the classroom teacher based on the study of countries around the world. Students explore culture, landforms and bodies of water, languages, customs, people, and animals.

MATH

In Math (Saxon 1), the children will learn how to skip count by one's, two's, five's and tens, identify ordinal position to tenth, master all basic addition and subtraction facts, measure using inches, feet, and centimeters, and learn calendar skills. The children will also explore how to add quarters, draw polygons, and observe information from real graphs, pictographs, and bar graphs.

Parental Role: Co-Teacher, Course Monitor, and Project Assistant

Course Pre-requisite: Must pass Kindergarten Pre-Assessment

Grade 1

HR 0100

1st Grade Homeroom

SCI 0100

This *Biology* course is designed to introduce early elementary students to the world of animals, human body, and plants all from the perspective that God is creator. Students will be engaged in reading assignments, vocabulary, experiments, observations, and ongoing projects. A highlight of this course is the usage of authentic science resources such as the *Kingfisher First Encyclopedia of Animal* and *DK First Human Body Encyclopedia*.

HIS 0100

Students study *Ancient Times* including the First Nomads, Egypt, the Jewish People, Abraham and Joseph, Hammurabi and the Babylonians, the Assyrians, Ancient China, Ancient Africa, Exodus, the Phoenicians, the Greeks and Rome. This course also includes the teaching of creation, map work, and the reading of nonfiction literature related to the time period.

Grammar/Composition 0100

In grammar, students study *First Language Lessons* at home and in school beginning with the simple parts of speech, nouns and verbs. Further study of the types of sentences is included towards the end of the school year. The focus is placed on exploring language

In composition, students are guided by the teacher using the Structure and Style writing method and the resource, *People and Places in Our Community*. While writing compositions with stylistic techniques and six of IEW's nine structural units, students will get to know the workers who keep a community running smoothly—from firefighters and police officers to road crews and rescue workers.

Reading & Recitation 0100

Multi-sensory phonics instruction using *The Ordinary Parents Guide to Teaching Reading* will continue with teaching vowel patterns other letter patterns. Reinforcement of these taught skills are demonstrated by reading age level appropriate primers. Towards the end of the school year students transition from primers to grade literature such as, *Frog and Toad*, *Bears on Hemlock Mountain*, and *Miss Rumphius*. During the year, the teacher engages students in rich, beautiful books with the purpose of modeling comprehension strategies. Finally, students practice the art of recitation by memorizing and reciting scripture and poetry throughout the year.

Spelling 0100

1st grade spelling students will learn encoding skills, reliable spelling rules, and multisensory strategies for spelling, along with exciting new concepts including 11 new phonograms, vowel teams, syllable division rules, Silent E and Vowel-Consonant-E words, blends, and R-controlled syllables. Phonological awareness and encoding skills are taught throughout *All About Spelling Level 2*.

For 1st Grade Courses Listed Above

Parental Role: Co-Teacher and Course Monitor

Course Pre-requisites: Successful completion of Kindergarten or Administrator approval

MATH 0100

First grade math (Saxon 2) covers working with larger numbers, geometric shapes, Venn diagrams, graphs, basic calculations such as addition/subtraction of money and 2-digit numbers, simple fractions, place value to 100 and multi-step problems.

Parental Role: Co-Teacher and Course Monitor

Course Pre-requisites: Successful completion of *MATH* or Administrator approval

Grade 2

HR 0200

2nd Grade Homeroom

SCI 0200

This introductory course to earth science and astronomy uses *the* Usborne First Encyclopedia of Our World *and* Usborne First Encyclopedia of Space. Students participate in a hands-on way to conduct experiments and investigations while studying great scientists in this field of study.

HIS 0200

The Middles Ages covers the Fall of Rome to the Rise of the Renaissance including The Byzantine Empire, Viking invasion, crusades, Martin Luther and more. This course also includes timelines, hands on map work, and the reading of nonfiction titles related to the time era studied.

Grammar/Composition 0200

In grammar, students study *First Language Lessons* at home and in school beginning with the eight parts of speech. Further study of the types of sentences, contractions, and punctuation is also included. The focus is placed on exploring language.

In composition, students are guided by the teacher using the Structure and Style writing method and the resource, *Bible Heroes*. While writing compositions with stylistic techniques and six of IEW's nine structural units, students will get to know heroes of the Bible.

Reading & Recitation 0200

Multi-sensory phonics instruction using *The Ordinary Parents Guide to Teaching Reading* will continue with teaching lesser known letter patterns, contractions, suffixes, prefixes, and multi-syllable words. 2nd graders read grade level classic literature such as, fables and fairy tales, *Boxcar Children*, and *Baby Island* while engaging with the teacher to discuss basic story structure and theme. Finally, students practice the art of recitation by memorizing and reciting scripture and poetry throughout the year.

Spelling 0200

2nd grade spelling students will continue to learn encoding skills, reliable spelling rules, and multisensory strategies for spelling, along with exciting new concepts including 10 new phonograms, the jobs of Silent E, words with C+l-e syllables, contractions, homophones, consonant and vowel suffixes, and past tense. Phonological awareness and encoding skills are taught throughout *All About Spelling Level 3*.

For 2nd Grade Courses Listed Above

Parental Role: Co-Teacher and Course Monitor

Course Pre-requisites: Successful completion of all HR 0100 courses or Administrator approval

MATH 0200

In this course (Saxon 3), students learn identifying ordinal positions; adding and subtracting multi-digit numbers; comparing numbers to 1000; dividing by single-digit divisors; adding positive and negative numbers; adding and subtracting fractions; plus measurements, mass, function rules, fractions, coordinate graphs, angles, and lines of symmetry.

Parental Role: Co-Teacher and Course Monitor

Course Pre-requisites: Successful completion of Math HR0100 or Administrator approval

Grade 3

HR0300

3rd Grade Homeroom

SCI 0300

This course introduces 3rd grade students to college-level chemistry concepts such as atoms, molecules, acids, bases, mixtures, chemical reactions, polymers, proteins, and DNA. Students will explore how to make an acid-base indicator, how to identify a chemical reaction, how to make a polymer, and what enzymes do. Also explored are great chemists of the Early Modern time period and elements 1-20 on the periodic table.

HIS 0300

Students study the time period from 1600 to 1850 when the modern nations of the world were developing. In the course, they learn about explorations, revolutions, discoveries, and inventions on every continent and across the seven seas. Students will also be engaged with map work, timelines, and excellent nonfiction literature related to the Early Modern Times.

Grammar/Composition 0300

In grammar, students take a journey to *Grammar Island* for their first exposure to applying the eight parts of speech and being taught parts of a sentence, phrases, and clauses. They will practice identifying all 4 levels of a sentence under the tutelage of the instructor.

During the composition course, students are guided by the teacher using the Structure and Style writing method and the resource, *Fables and Fairy Tales*. Formal *IEW* writing lessons use components taught in grammar and vocabulary to produce well-written outlines, summaries, narratives, and essays.

Reading & Recitation 0300

Students read, explore, and analyze classic literature pieces as well as pieces corresponding to the early modern history time period. Some of those titles include, *Whipping Boy*, *Little Pilgrim's Progress*, and *Little House in the Big Woods*. Furthermore, students practice the art of recitation by memorizing and reciting scripture and poetry throughout the year.

Spelling 0300

3rd grade students will continue to learn encoding skills, reliable spelling rules, and multisensory strategies for spelling, along with exciting new concepts including 12 new phonograms, prefixes, strategies for multisyllable words, abbreviations, and words with unaccented A. Phonological awareness and encoding skills are taught throughout *All About Spelling Level 4*.

For 3rd Grade Courses Listed Above

Parental Role: Co-Teacher and Course Monitor

Course Pre-requisites: Successful completion of all HR0200 courses or Administrator approval

MATH INTERMEDIATE 3

This course covers addition/subtraction facts, fractions, probability, estimating/calculating area, multiplication and division facts, dividing two-digit numbers, multiplying three numbers, arrays,

congruent shapes, capacity, polygons, classifying angles, adding/subtracting multi-digit numbers, estimating lengths and distances,

Parental Role: Co-Teacher and Course Monitor

Course Pre-requisites: Successful completion of Math 0200 or Administrator approval

Grade 4

HR0400

4th Grade Homeroom

HIS 0400

This course covers *The Modern Age* of history and journeys through events such as the Civil War, Reconstruction to 1914, the World Wars and the changing world in which we live. Emphasis is placed on reading literature which is illustrative of this time period. Additional activities include the study of timelines, maps, and current events to enhance understanding of this period in world history.

SCI 0400

This introductory course of physic includes lessons on heat and energy, inventions and technology, and machines and motion all through the lens of the Bible. Students are responsible for creating a science journal and conduct ongoing projects

Grammar/Composition 0400

In grammar, students continue their study of the parts of speech, parts of sentence, phrases, and clauses building upon lessons in 3rd grade with *Grammar Town*. Additionally, they continue analyzing the 4 levels of a sentence under the tutelage of the instructor.

During the composition course, students are guided by the teacher using the Structure and Style writing method and the resource, *All Things Fun and Fascinating*. Formal *IEW* writing lessons use components taught in grammar and vocabulary to produce well-written outlines, summaries, narratives, and essays.

Literature, Vocabulary, & Recitation 0400

In vocabulary, students study the history of language and Latin stems showing that big words can be easy and fun. Students also explore and analyze classic literature pieces as well as pieces corresponding to their history time period studied. Some of those titles include, *Homer Price*, *Number the Stars*, and *The Cricket in Times Square*. Furthermore, students practice the art of recitation by memorizing and reciting scripture and poetry throughout the year.

Spelling 0400

4th grade students will continue to learn encoding skills, reliable spelling rules, and multisensory strategies for spelling, along with exciting new concepts including 12 new phonograms, prefixes, strategies for multisyllable words, abbreviations, and words with unaccented A. Phonological awareness and encoding skills are taught throughout All About Spelling *Level 4*.

For 4th Grade Courses Listed Above

Parental Role: Co-Teacher and Course Monitor

Course Pre-requisites: Successful completion of all HR0300 courses or Administrator approval

MATH 5/4

This course (Math 5/4) covers number patterns; numbers to 10,000; place value – thousands, hundreds, tens and ones; addition/subtraction of 4-digit numbers; multiplication and division facts; multiplication/division of 3-digit number by 1 digit number; two-step word problems; mental calculation in addition/subtraction of 2-digit numbers and multiplication/division of 10 and 1000 by 1-digit; bar graphs, fractions – equivalent, mixed numbers and improper fractions; geometry – angles, right angles, area and perimeter; decimal notation; and beginning algebraic concepts.

-OR

MATH 6/5

This course (Math 6/5) covers number patterns; numbers to 10,000; place value – thousands, hundreds, tens and ones; subtraction of 4-digit numbers; multiplication and division facts; multiplication/division of 3-digit number by 1 digit number; two-step word problems; mental calculation in addition/subtraction of 2-digit numbers and multiplication/division of 10 and 1000 by 1-digit; bar graphs, fractions – equivalent, mixed numbers and improper fractions; geometry – angles, right angles, area and perimeter; decimal notation; and beginning algebraic concepts.

Parental Role: Co-Teacher and Course Monitor

Course Pre-requisites: Successful completion of Math HR0300 or Administrator approval

Grade 5

HR 0500

5th Grade Homeroom

SCI 0500

This biology course leads students through a study of plants, animal life, and the human body by digging deeper into what was studied during the elementary years. Students will use *God's Design for Science* to conduct research and their experiments. Each student is also responsible for a science notebook to keep their notes, vocabulary, observations and sketches organized.

HIS 0500

The Bible is essential to an accurate understanding of history. This course presents a panorama of world history spanning from 4004 BC to AD 29 known as Ancient History, exploring creation, the Flood, the Tower of Babel, and the rise of civilizations from Mesopotamia to Rome.

Grammar/Composition 0500

In grammar, students continue their study of the parts of speech, parts of sentence, phrases, and clauses building upon lessons in 4th grade with *Grammar Voyage*. Additionally, they continue analyzing the 4 levels of a sentence with gaining independence.

During the composition course, students are guided by the teacher using the Structure and Style writing method and the resource, *Ancient History Based Writing Lessons*. Formal writing is taught through IEW by learning nine structural models (note taking, writing paragraphs, stories, simple reports, writing from pictures, research reports, creative writing, essays, and critiques) to help them organize any type of composition. A special emphasis is placed on developing well-thought out persuasive essays.

Literature, Vocabulary, & Recitation 0500

In vocabulary, students continue their study of the history of language and Latin stems showing that big words can be easy and fun with a heavier emphasis on the Latin/Spanish connection. Students also explore and analyze classic literature pieces as well as pieces corresponding to their history time period studied using Socratic discussion methods. Some of those titles include, *The Lion, the Witch and the Wardrobe*, and *The Children's Homer*. Furthermore, students practice the art of recitation by memorizing and reciting scripture and poetry throughout the year.

For 5th Grade Courses Listed Above

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of all HR0400 courses or Administrator approval

MATH 6/5

This course (Math 6/5) covers number patterns; numbers to 10,000; place value – thousands, hundreds, tens and ones; subtraction of 4-digit numbers; multiplication and division facts; multiplication/division of 3-digit number by 1 digit number; two-step word problems; mental calculation in addition/subtraction of 2-digit numbers and multiplication/division of 10 and 1000

by 1-digit; bar graphs, fractions – equivalent, mixed numbers and improper fractions; geometry – angles, right angles, area and perimeter; decimal notation; and beginning algebraic concepts.

-OR

Math 7/6

This course (Math 7/6) covers whole numbers and place values up to the millions; approximation and estimation; multiplication/division of 4-digit numbers by 2-digit numbers; order of operations; multi-step word problems; multiplication/division of fractions; addition/subtraction of mixed numbers; mental multiplication/division of numbers by 10s, 100s and 1000s; measuring of angles; ratios; mental multiplication/division of numbers with 3-decimal places by 10s, 100s, and 1000s; multiplication/division of numbers up to 2-decimal places by a 2-digit whole number; finding the area of a triangle; conversion of measurements; percentages; triangles – sum of angles of a triangle, isosceles and equilateral triangles, drawing triangles; four sided figures – parallelogram, rhombus and trapezoid; tessellations – tiling patterns; volume of cubes and cuboids; and finding the volume of a solid.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of Math 6/5 or Administrator approval.

ELEMENTARY SPECIALS

Parental Role: Course Monitor

Students in grades K4-5 will take part in the specials that enable the children to take a variety of courses throughout the year such as Art, Music, and Latin.

In **Music**...

K4-5th grade students study **Latin** by learning vocabulary and phrases through songs, chants, and games.

Art students in grades K4-5 will receive a mini lesson each class day about the artist of the month using a Power Point, short video or book. Students will complete a piece of art in the style of the artist with teacher guidance. Students study such masters as Monet and Picasso.

UPPER SCHOOL COURSES

Middle School Courses

Grade 6

HIS 0600

Students revisit the Medieval and Early Renaissance periods by studying church history and the biographies of Protestant reformers and leaders of the Renaissance. Students examine this period closely by reading quality literature, writing about the era, and developing timelines.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of HIS0500 or Administrator approval

LIT 0600

This course should be taken in conjunction with the Composition 6 course to receive the full benefit. In this literature course, students will be instructed in vocabulary and reading. Vocabulary will be presented as etymology using Latin and Greek stems as a way of thinking, a way of building, analyzing, spelling, pronouncing, and producing words. Students will read various genres including fiction, expository and poetry and learn how to read, understand, and analyze this quality literature.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of LA0500 or Administrator approval

COMP 0600

Formal writing is taught through IEW by learning nine structural models (note taking, writing paragraphs, stories, simple reports, writing from pictures, research reports, creative writing, essays, and critiques) to help them organize any type of composition. Composition is taught alongside grammar in which students will analyze sentence structure on a higher level through diagramming and applying grammar and spelling rules in compositions.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of LA0500 or Administrator approval

SCI 0600

Students will learn about God’s design for planet Earth, our universe, and weather and water. Each student will compile a science notebook with observations of investigations, vocabulary, sketches, and notes.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of SCI0500 or Administrator approval

Pre-Algebra

This course covers area, percent, ratio, order of operations, and beginning algebra concepts such as translating from words to algebraic expressions, evaluation of algebraic expressions, the simplification of algebraic expressions, the solution of linear equations in one unknown, and word problems involving pre-algebraic concepts

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of MATH 7/6 or Administrator approval

Or MATH 7/6

This course (Math 7/6) covers whole numbers and place values up to the millions; approximation and estimation; multiplication/division of 4-digit numbers by 2-digit numbers; order of operations; multi-step word problems; multiplication/division of fractions; addition/subtraction of mixed numbers; mental multiplication/division of numbers by 10s, 100s and 1000s; measuring of angles; ratios; mental multiplication/division of numbers with 3-decimal places by 10s, 100s, and 1000s; multiplication/division of numbers up to 2-decimal places by a 2-digit whole number; finding the area of a triangle; conversion of measurements; percentages; triangles – sum of angles of a triangle, isosceles and equilateral triangles, drawing triangles; four sided figures – parallelogram, rhombus and trapezoid; tessellations – tiling patterns; volume of cubes and cuboids; and finding the volume of a solid.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of Math 6/5 or Administrator approval

LAT-A

This grammar-first approach to teaching Latin will ensure that the student master the six indicative active tenses of the first two verb conjugations, five noun declensions, first and second declension adjectives, and 185 vocabulary words.

Grade 7

HIS 0700

This course covers US history beginning with life in America before Europeans came and continuing through the first years after the Civil War. Students will be responsible for writing assignments, supplemental literature exploration, map work, drama, and timeline creations.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of HIS 0600, teacher recommendation and Administrator approval.

LIT 0700

This course should be taken in conjunction with the Composition 7 course to receive the full benefits. In this literature course, students will be instructed in vocabulary and reading. Vocabulary will be presented as etymology using Latin and Greek stems as a way of thinking, a way of building, analyzing, spelling, pronouncing, and producing words. Students will read various genres including fiction, expository and poetry and learn how to read, understand, and analyze this quality literature.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of LA0600/WRT0600, teacher recommendation and Administrator approval.

COMP 0700

Formal writing is taught through IEW by learning nine structural models (note taking, writing paragraphs, stories, simple reports, writing from pictures, research reports, creative writing, essays, and critiques) to help them organize any type of composition. Composition is taught alongside grammar in which students will analyze sentence structure on a higher level through diagramming and applying grammar and spelling rules in compositions.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of LIT 0600/COMP 0600, teacher recommendation and Administrator approval.

SCI 0700

The modules presented in this series introduce the history of science, scientific inquiry, experimentation, simple machines, archaeology, geology, paleontology, fossils, the fossil record, life, classification of life, the human body, energy, the digestive system, the respiratory system, the lymphatic system, the reproductive system, the urinary system, and the nervous system. Students will conduct experiments/investigations and record observations, vocabulary, and sketches in a science notebook. Students learn basic content and skills and then build their knowledge to a more complex level of understanding through daily demonstrations and hands-on lab experiences.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of SCI0600, teacher recommendation and Administrator approval.

Pre-Algebra

This course covers area, percent, ratio, order of operations, and beginning algebra concepts such as translating from words to algebraic expressions, evaluation of algebraic expressions, the simplification of algebraic expressions, the solution of linear equations in one unknown, and word problems involving pre-algebraic concepts

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of MATH 7/6 or Administrator approval

OR

ALGEBRA I

Algebra I students will develop the understanding they need to resolve more complex problems and functions. It covers topics including signed numbers, exponents, and roots; absolute value; equations and inequalities; scientific notations; unit conversions; polynomials; graphs; factoring; quadratic equations; direct and inverse variations; exponential growth; statistics; and probability.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of Algebra 1/2 or teacher recommendation and Administrator approval

LAT-B

This grammar-first approach to teaching Latin will ensure that the student master the six indicative active tenses of the first two verb conjugations, five noun declensions, first and second declension adjectives, and 185 vocabulary words.

Grade 8

HIS 0800

This US history course surveys lessons beginning with America's expansion into the lands west of the Mississippi River and continuing to modern times. Students explore maps, examine writings from this time period, read literature supporting modern America, and engage in thought provoking discussions.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of HR0700 or Administrator approval

LIT 0800

This course should be taken in conjunction with the Composition 8 course to receive the full benefits. In this literature course, students will be instructed in vocabulary and reading. Vocabulary will be presented as etymology using Latin and Greek stems as a way of thinking, a way of building, analyzing, spelling, pronouncing, and producing words. Students will read various genres including fiction, expository and poetry and learn how to read, understand, and analyze this quality literature.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of LA0700/WRT0700, teacher recommendation and Administrator approval.

COMP 0800

Formal writing is taught through IEW by learning nine structural models (note taking, writing paragraphs, stories, simple reports, writing from pictures, research reports, creative writing, essays, and critiques) to help them organize any type of composition. Composition is taught alongside grammar in which students will analyze sentence structure on a higher level through diagramming and applying grammar and spelling rules in compositions.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of LIT 0700/COMP 0700, teacher recommendation and Administrator approval.

SCI 0800

The Apologia *Physical Science* text discusses such topics as the atmosphere, the hydrosphere, weather, the structure of the earth, environmentalism, the physics of motion, Newton's Laws, gravity, and astrophysics.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of SCI0700 or Administrator approval

Algebra I (High School Credit)

Algebra I students will develop the understanding they need to resolve more complex problems and functions. It covers topics including signed numbers, exponents, and roots; absolute value; equations and inequalities; scientific notations; unit conversions; polynomials; graphs; factoring; quadratic equations; direct and inverse variations; exponential growth; statistics; and probability.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of Math 0700 or Administrator approval

Latin I (High School Credit)

Students study Latin grammar including the five noun declensions, personal and possessive pronouns, prepositions, four verb conjugations, present and perfect system of verbs in the indicative, parsing, and translation of Latin words. This course also includes memorization of vocabulary and Latin sayings. Ancient Roman culture is also studied.

High School Courses

Grade 9

World History I

This History/Geography course will cover the first half of World History with the second half taught in 10th grade. Students will study a history narrative and primary source texts including documents, epics, essays, histories, and poems of the time period and culture being studied. Students will evaluate cultures, religious development, as well as social and political systems in the light of Scripture in this omnibus course taught in conjunction with English 9. Students will compare and contrast societies and learn to identify patterns in human interactions. Learning to express their ideas in writing will be emphasized. Before each new unit, Geography reflecting the time period studied as well as political maps of modern times will be referenced and learned. Students will report on the connections between topography and culture, and learn from one another. Students who wish to take the CLEP test for college credit will be coached as to how to study and do well on the test. Taking this course is not a guarantee of college credit but taking the CLEP to attempt college credit will be encouraged.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of His 0800 or Administrator approval

English 9

This course will be taken in conjunction with World History I as an omnibus course. English 9 will include composition, grammar review, vocabulary, and literature. Literature selections will be companions to the period of history being studied (Creation to Reformation). Vocabulary will come from the epics, source texts, plays, poetry, and novels being studied. Previous study of Latin & Greek stems will be referenced in decoding words. The purpose of this course is for students to learn English vocabulary. An emphasis will be placed on vocabulary as it is encountered in the literature selections. Previously studied Latin and Greek word origins will be used to decode words. Taught in conjunction with Literature & Vocabulary, students will be required to recite scripture, poetry, chants, songs, speeches, and other selections from various pieces of classic literature. Students will be introduced to different types of paragraph writing and crafting techniques to enhance writing style. They will analyze example essays from famous writers to emulate their patterns of writing. Students will use literature novels, speeches, poetry, plays, and essays to serve as content to create compositions. Grammar will be reviewed and diagramming introduced and practiced throughout the year.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of Lit 0800 and Comp 0800 or Administrator approval

Biology

This course introduces students to the life science through lectures, reading, laboratories, research papers, and independent projects. Students will develop their lab techniques and evaluate the current research in biology critically. Topics covered include classification (taxonomy), microbiology (bacteria and Protista), fungi, cell structure and reproduction, genetics, evolution, ecology, and basic zoology.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of Sci 0800 or Administrator approval

Geometry

Geometry builds on Algebra 1 concepts and increases students' knowledge of shapes and their properties through geometry-based applications, many of which are observable in aspects of everyday life. This knowledge helps develop visual and spatial sense and strong reasoning skills and enables students to better understand more complex mathematical concepts. Technology should be used to enhance students' mathematical experience, not replace their reasoning abilities.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of Algebra I or Administrator approval

Latin II or Spanish I

See **Language** below.

Logic

A course on how to form ideas, judgments, and arguments, with an emphasis on the structure of reasoning. Along with a basic outline of some key principles, the text presents the four kinds of logical statements, the four ways propositions can be opposite, the three ways in which they can be equivalent, and seven rules for validity. The study of deductive inference will progress to the treatment of figure and mood in simple syllogisms, complex syllogisms, and hypothetical reasoning. The latter half of the course will incorporate "real life" contemporary examples of arguments to which students will apply their understanding of logic to accommodate a wide variety and complexity of content.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: None

Art I

See **Fine Arts** below.

Grade 10

World History II

This course will cover the second half of World History from the Reformation and Renaissance to the September 11 attacks. Students will read and reference historical narratives and primary source texts including documents, epics, essays, histories, and poems of the time period and culture being studied. The Bible will be considered a primary source text. Students will evaluate cultures and religious development as well as social and political systems through the lens of scripture. They will compare and contrast societies and learn to identify patterns in human interactions. In conjunction with English, learning to express ideas in speech and in writing will be emphasized. Before each new unit, geography reflecting the time period studied as well as modern political maps will be referenced and learned. Students will make connections between topography and culture and learn from one another. Students who wish to take the CLEP test for college credit will be coached as to how to study and do well on the test. Taking this course is not a guarantee of college credit but taking the CLEP to attempt college credit will be encouraged.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of World History I or Administrator approval

English 10

English 10 will include composition, grammar review, vocabulary, and literature. Literature selections will include primary source texts that follow the history narrative, epics, plays, poetry, and novels. They will be companions to the historical period being studied. Vocabulary will be coming from the literature but we will use the previously studied stems/roots to decode new words. An emphasis will be placed on vocabulary as it is encountered in the literature selections. Previously studied Latin and Greek word origins will be used to decode words. Taught in conjunction with Literature & Vocabulary, students will be required to recite scripture, poetry, chants, songs, speeches, and other selections from various pieces of classic literature. Students will use literature novels, essays, and expository texts to continue various formal essay writing and crafting techniques to enhance writing style. The bulk of the course will be moving

students beyond basic essay writing to conducting research, managing note-taking, and crafting a well-organized argument in the form of a research paper. Grammar will be reviewed and diagramming will be practiced throughout the year.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of Eng 9 or Administrator approval

Chemistry

This course introduces students to life science through lectures, reading, laboratories, research papers, and independent projects. Students will develop lab techniques and evaluate the current research in chemistry critically. Topics covered include: significant figures, units, classification, and the mole concept, stoichiometry, thermochemistry, and thermodynamics, kinetics, acids and bases, redox reactions, and solutions, atomic structure, Lewis structures, and molecular geometry, gas laws and equilibrium.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of Algebra I or Administrator approval

Algebra II

Algebra II (or Advanced Algebra) is intended to help students enrich their skills and develop more concepts beyond basic algebra as they prepare for higher level mathematic courses. This course is designed to help students apply the mathematics they learned in the classroom to real world situations, model mathematical situations, communicate mathematically, and use technology appropriately. Lessons that connect various areas of mathematics to algebra, geometry, statistics and trigonometry will be studied. Students will study real numbers, operations, and patterns as they extend their understanding of algebraic concepts. They will work with matrices, complex numbers, logarithms, polynomial functions and their inverses, systems of equations and inequalities, transformations, mathematical models, scatter plots, and statistics. As students transfer to algebraic math skills, they simultaneously learn that God gave us numbers and mathematical systems to help us understand how to solve for the unknown in life. Technology should be used to enhance students' mathematical experience, not replace their reasoning abilities.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Satisfactory performance on the standardized test and successful completion of Algebra I or Administrator approval

Theology

Theology is the study of God. Theological study seeks to gather, analyze, organize, and revere what God has made known about His Person, power, and purpose for creation. Theology I will introduce students to two approaches to theological study: *Systematic Theology* and *Biblical Theology*. Both approaches will be applied to a progressive study of *bibliology*, *trinitarianism*, *soteriology*, and *eschatology*.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of Logic or Administrator approval

Language

Latin I

Students study Latin grammar including the five noun declensions, personal and possessive pronouns, prepositions, four verb conjugations, present and perfect system of verbs in the indicative, parsing, and translation of Latin words. This course also includes memorization of vocabulary and Latin sayings. Ancient Roman culture is also studied.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: none

Latin II

Students will study Latin grammar including the 1st-4th conjugation verbs in the indicative active and passive, the five declensions, irregular adjectives, prepositions, adverbs, numbers, pronouns, verbs in the subjunctive active and passive, comparison of adjectives and adverbs, parsing, and translation of Latin words. This course also includes memorization of vocabulary and Latin sayings.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: Successful completion of Latin I or Administrator approval

Spanish I

Students will build basic skills in speaking, comprehending, and writing in Spanish. They will also learn about Spanish speaking cultures around the world and in their own country, including cultural and linguistic differences between Spanish speaking populations.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: None

Fine Arts

Art I

Art I is a thorough introduction to the grammar of art. The basic elements of art (line, shape, color, value, form, texture, and space) will be taught, and then these building blocks will be combined using the principles of design (balance, unity, contrast, emphasis, pattern, movement and rhythm.) This class will help build a solid foundation in using the visual concepts and processes of design. Masterpiece examples will be examined and imaginations utilized to create art projects that will strengthen students' understanding of how to apply these elements using a variety of media.

Parental Role: Private Tutor and Guide for Dependent Study

Course Pre-requisites: None