

# Science, Etc. Class Catalog 2010-2011

## Science, Elementary – High School (all are 2 hr. classes):

### **Science: (Ages 5-12) Juanelle Winsor... \$70.00 per month**

Degreed and experienced teacher delights in making accelerated Science fun by integrating songs, experiments and games designed for life long learning. Sign language, geography, Greek and Latin root words enhance the curriculum and give children advantages for SAT testing. Her greatest motivation is helping children to develop God's character into their lives as they discover His character through His magnificent creation. The decorated zoo and lab rooms are so inviting the children don't want to leave, or maybe it's because the "#1" rule is.....YOU HAVE TO HAVE FUN OR YOU CAN'T COME BACK!!!!

**Supply fee: \$35.00 per semester.**

### **(LSc) Life Science: (Ages 13-14) Peggy Davis ...\$75.00 per month**

Learn about the history of science and the Christians who shaped scientific thought. "Create" a Gene Man, perform chemical reactions and solve a crime using DNA evidence. This course is designed to be a student's first systematic introduction to the sciences. It covers such topics as: the scientific method, simple machines, archaeology, geology, paleontology, biology, and human anatomy and physiology and chemistry. **Weekly homework assignments and biweekly test. Lab manual required. Required text: *Exploring Creation with General Science, 2<sup>nd</sup> Edition, Wile, Apologia Ed. Min. and Test and Solutions Manual.* Supply Fee: \$35.00**

### **(PSc) Physical Science: (Ages 13-14) Peggy Davis...\$75.00 per month**

This course 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. The student will solve a crime using chemistry, learn to identify and separate substances, calculate the speed of a car and build and blast off a rocket. **Weekly homework assignments, lab manual and biweekly test required.**

**Required text: *Exploring Creation with Physical Science, 2<sup>nd</sup> Edition, Wile, Apologia Ed. Min. and Test and Solutions Manual.* Supply fee: \$35.00**

### **(Bio) Biology: (Ages 15-16) Peggy Davis...\$80.00 per month**

Dig deeper into God's creation by examining the smallest living cells through a microscope. Culture bacteria and test for antibiotic sensitivity. Complete an ecology study and test pond water. Solve crimes by examining and testing evidence. Discover common characteristics of all living things through dissection of a worm, clam, starfish, crayfish, fish, frog and fetal pig. Follow the scientific method to study processes used to maintain life. This course provides a strong background in microscopy, biochemistry, cellular biology, molecular and Mendelian genetics, evolution vs. creation, dissection, and ecosystems. It also provides a complete survey of the five kingdoms in creation. **Weekly homework assignments and biweekly test. Lab manual required. Text: *Exploring Creation with Biology, 2<sup>nd</sup> Edition, Wile and Durnell, Apologia Ed. Min. and Test and Solutions Manual.* Supply fee \$35.00**

### **Chemistry: (Ages 16-18) Peggy Davis...\$80.00 per month**

This course gives the student a rigorous foundation in chemistry. It covers significant figures, units, classification, the mole concept, stoichiometry, thermochemistry, thermodynamics, kinetics, acids and bases, redox reactions, solutions, atomic structure, Lewis structures, molecular geometry, the gas laws, and equilibrium. Students will perform all the textbook experiments and experiments from the supplementary Microchemistry booklet. Weekly homework assignments and biweekly test. Algebra I is a prerequisite. **Lab manual required and Texas Instruments TI-83 or 84 calculator (not Casio) Required text: *Exploring Creation with Chemistry, 2<sup>nd</sup> Edition, Wile, Apologia Ed. Min. and Test and Solutions Manual.* Supply Fee: \$35.00**

### **Human Anatomy and Physiology (Advanced Biology):**

#### **(Ages 17-18) Peggy Davis...\$80.00 per month**

Study the eleven major systems which make up the human body. Perform chemistry experiments to understand the body's acid base balance and physiologic processes. Dissect a cow's eye, a cow's heart and a fetal pig. Use the microscope to examine human tissue at the cellular level. View videos of a human cadaver. Use serologic evidence to solve a crime. Weekly homework, lab manual and biweekly test required. Prerequisites: Biology and Chemistry. **Required Texts: *The Human Body Fearfully and Wonderfully Made* by Dr. Jay Wile and Marilyn Shannon, M.A., Apologia Educational Ministries, Solutions and Tests Manual; *The Anatomy Coloring Book* by Wynn Kapit and L. M. Elson.**  
**Supply Fee: \$35.00**

#### **Physics: (Ages 17-18) Peggy Davis ...\$80.00 per month**

This course provides a detailed introduction to the methods and concepts of general physics, heavily emphasizing vector analysis. It provides the student with a strong background in one-dimensional and two-dimensional motion, Newton's laws and their application, gravity, work and energy, momentum, periodic motion, waves, optics, electrostatics, electrodynamics, electrical circuits, and magnetism. Algebra II and an introduction to the definitions of sine, cosine, and tangent are required. Weekly homework assignments and biweekly test. Lab manual required. **Required texts: *Exploring Creation with Physics*, 2<sup>nd</sup> edition, Wile, Apologia and Solutions & Test Manual for Exploring Creation with Physics and Texas Instruments TI-83 or 84 calculator (not Casio).** **Supply Fee: \$35.00**

### **Mathematics, Elementary, Jr. High & High School:**

#### **Math/Elementary: Kelli Pryor...35.00 per month (1 hr. class)**

##### **Math I-Saxon 2-3, Math II-Saxon 54-65, Math III-Saxon 76-87**

Throughout the year, the students will enjoy an in-depth cumulative math program. Our classes will consist of three types of math sessions: lessons, investigations, and tests. Concepts are introduced and reviewed in a carefully-planned sequence. It is therefore crucial, to complete all lessons and investigations in the given order. Children will become involved in discovering the "whys" and "hows" of math. This will hopefully encourage life-long learning. However, realizing all children learn at different paces and have different learning styles, sessions will be taught using various methods incorporating auditory, visual, and hands-on learning. There will be testing to determine in which level to place your child.

#### **Lessons**

Each lesson is divided into four sections: Warm-Up, New Concept(s), Lesson Practice, and Mixed Practice. The Warm-Up (10–15 minutes) promotes mental math and problem-solving skills and sets the tone for the day's instruction. It consists of Facts Practice, Mental Math, and Problem Solving. In the New Concept(s) section (5-15 minutes for most lessons) you will find the new instructional increment, as well as example problems to work through. Important vocabulary terms are highlighted in color, and each of these terms is defined in the textbook's glossary. The Lesson Practice (5–10 minutes) provides practice on the new concept. **Supply Fee: \$60**

#### **(Pre-Alg) Pre- Algebra: Lynn Hatchett...\$75.00 per month (2 hr. class)**

This class will help the student's ease into algebra at a slower pace with the introduction of negative numbers and variables. We will explore exponents, ratios, LCM, GCF and introductory geometry. Hands-on material will be used to learn different concepts, such as solving equations. We will have fun with pre-algebra playing Bingo, Trivial Pursuit, and Jeopardy. **Required Text & Supply fee: 65.00**

#### **(A1) Algebra I: Lynn Hatchett...\$80.00 per month (2 hr. class)**

We will discover the order and beauty of God's universe through the logic of algebra principles. The Math-U-See Algebra text will be supplemented with lessons using the graphing calculator. This course will include solving systems of equations, quadratic equations and graphing equations and inequalities. Students will develop an understanding of algebra concepts as a tool for thinking across all strands of mathematics. We will learn how much fun algebra can be with plenty of hands on materials and games.

**Required: Texas Instruments TI-83 or 84 calculator (not Casio)**

**Required Text (included) & Supply fee: 65.00**

**(Geom) Geometry: Lynn Hatchett...\$80.00 per month (2 hr. class)**

During this course, students will discover geometry concepts through hands-on applications and a math-applied format. We will study Euclidean facts regarding points, lines, angles, triangles, circles, polygons, solids and classical constructions and transformations. Some analytical geometry and trigonometry will be incorporated. Geometric relationships and deductive reasoning strategies will be used to solve a variety of real world problems. **Required text (included) & Supply fee: 65.00**

**(A2) Algebra II: Lynn Hatchett...\$80.00 per month (2 hr. class)**

Algebra II will review and expand basic algebraic concepts learned for solving and graphing linear functions. More advanced algebraic topics such as complex numbers, and rational, exponential and logarithmic functions will be introduced. Students will be challenged by new concepts that require graphing skill, function analysis, solving higher order equations and working with matrices. To expose students to higher level mathematical studies, the course will also introduce probability and statistics, analytic geometry and trigonometry. The TI-83 graphing calculator will be used to build concepts and expand understanding of the material. **Required: Texas Instruments TI-83 or 84 calculator (not Casio) Required text (included) & Supply fee: 65.00**

**(PC) Pre-Calculus: Lynn Hatchett...\$ 40.00 per month (1 hr.class)**

Pre-Calculus blends the concepts and skills that must be mastered before enrollment in a college-level calculus course. Although the emphasis will be on the study of Trigonometry, we will also complete the formal study of functions and relations begun in Algebra 1 & 2, while the introduction of limits will provide a bridge to calculus. Trigonometric identities and inverses will be explored using technology, modeling and problem solving. Our study of functions will include exponential, logarithmic and composite functions and operations. Quadratic relations will be represented in polar and rectangular coordinates and parametric coordinates in the form of vectors. The concept of limits will be applied to rational and discrete functions such as infinite and finite sequences and series.

**Required text (included) & Supply fee: 65.00**

**(Sat) Prep Class: Lynn Hatchett...\$40.00 per month (1 hr. class)**

This is a one-hour class designed to familiarize students with the math sections of college entrance exams, including the PSAT, SAT and ACT and help them achieve their maximum potential score. Four sample SAT math sections will be administered in class during the year to track each student's progress. Weekly modular lessons will consist of lots of practice questions designed to help strengthen each student's test preparation by examining test format, question type and scoring. Topics covered include: Arithmetic, Algebra 1, Geometry, Algebra 2, Analytic Geometry, and Probability and Statistics. Students can expect to learn test-taking strategies and techniques, which include several "math tricks." My goal is to help every student gain competence and confidence. **Required text (included) and supply fee: 65.00**

**English, Elementary- High School:**

**Reading: Kelli (Williams) Pryor...\$35.00 per month**

**(B. Read) Beginning Reading:** Teaching a child to read can be a very difficult, overwhelming task. However, there is hope. Throughout the year, we will explore a new world of learning, READING!!! We will focus on phonic-based reading and language material. Your child will learn and memorize phonic sounds, blends, phonics rules, and how to apply these skills in reading. We will use rhyme, songs, chants, and other fun methods, in order to help your child master these skills. Students will enjoy varied activities as they learn and review vowel and consonant sounds, blends, one-and two-vowel words, words with special sounds, and sentence comprehension.

This class will take your child through the reading development process. As they progress, we will begin reading books. The books they will read, will correlate with the sequence in which the special phonics sounds and blends are introduced. Together, with ample practice and thorough review, your child will be reading! We will use the Abeka curriculum. **Supply Fee: TBA**

**(Read) Content Reading Adventure:** Reading can be an adventure for children of all ages. However, in years of working with children of all reading abilities, I have discovered many do not enjoy reading due to their lack of comprehension skills. During this course children will develop the skills needed to improve their reading comprehension. Whether your child has always struggled with reading or has been a gifted reader, does not determine their level of reading enjoyment or level of comprehension. The key in developing a desire to read is to demonstrate the possibilities that reading opens for them, and inspire their imaginations.

We will use many hands – on, interactive activities that will help promote excitement while they read. Through reading circles, role playing, art, and creative writing, we will live out the lives of the characters we meet, as we join the reading adventure. Come along on a learning adventure using children’s novels, to open the door to art, history, vocabulary, geography, science, human relationships, author studies, and writing!

- Develop fluency in reading
- Develop vocabulary
- Develop reading strategies
- Develop ability to use text organization to aid in comprehension
- Develop ability to react to readings

Throughout the year, we will read various genres, such as: novels, short stories, tall tales, poetry, biographies, and fairy tales. **Supply Fee: \$60**

### **Grammar/Elementary: Kelli Pryor...\$35.00 per month**

**(Gram 1) Grammar 1,** will introduce and reinforce various grammar and spelling concepts . Through the year students will master the following areas: recognizing and correctly punctuating three kinds of sentences; working with compound words, rhyming words, antonyms, synonyms, contractions, and singular possessive words; forming plurals; and using words correctly. By the end of the year, your child’s reading comprehension skills will be sharpened, and will write more clearly, correctly, and concisely. Spelling and Vocabulary I, will help children become more proficient spellers. Each week, the child will be introduced to a new, carefully selected, phonetic-based word lists. After the first semester, the child will be introduced to new vocabulary words. This will help the children become ad more proficient readers and writers. Several exercises are included, for each list, to enhance teaching. As a class, we will memorize fun, illustrated poems, the children will love. We will use the Abeka and Wordly Wise curriculums.

**Supply Fee: \$60**

**(Gram 2) Grammar 2,** will emphasizes usage various grammar concepts and relate them to the writing process. Students are given extensive instruction in writing book reports, letters, and an encyclopedia report. There are also a number of creative writing exercises and an excellent section on using the dictionary and the encyclopedia. Traditional grammar training continues as students learn to recognize all eight parts of speech; identify simple and compound subjects and verbs; diagram subjects, verbs, adjectives, and adverbs; and learn simple rules for correct word usage and subject/verb agreement. Spelling and Vocabulary II, will continue to help children become more proficient spellers, as well as, increase their vocabulary. There will be weekly spelling lists, related activities, and selected poetry. We will use the Abeka and Wordly Wise curriculums. **Supply Fee: \$60**

**(Gram 3) Grammar 3,** build on the child’s traditional grammar concepts. They will be constantly guided to see how grammar applies to his writing and speaking. There will be a systematic presentation of grammar, composition and mechanics in a clear and appealing manner. As new grammar concepts are introduced and reinforced, there will be explanations and demonstrations of the writing process. Students should become more confident, in applying their knowledge of grammar, in composition. This course will help the child put all the concepts of grammar into practice. Spelling and Vocabulary II , will help children become more proficient spellers and increase their vocabulary. We will begin looking at, and defining, various prefixes, suffixes, and roots. We will use the Abeka and Wordly Wise curriculums.

**Supply Fee: \$60**

**(Writ) Writing: Karen Wilson...\$35.00 per month**

Have you ever sat at the table and asked your child to write a story only to get a response of tears? Those days will be gone forever. Come and join our class as we explore the world of "writing without tears". The class will include: Outlining and Writing Paragraphs, Writing from Pictures, Research Reports, Formal Essays, Critiques, and Creative Writing. This year, we will be using All Things Fun and Fascinating as the source text for writing. If your child has already taken this course in a previous year, he/she will find this year really interesting! **Required Text: All Things Fun and Fascinating by Lori Verstegen \$29.00, Supply Fee: \$10.00** <http://www.excellenceinwriting.com/AFF>

**(Lit) Classical Literature and Writing: Kathy Walston (1 hr. class)**

**Ages 11-12 (\$35.00 per month):** We will read from different types of literature including novel, adventure, fantasy, historical fiction, etc. We will focus on the form and basic content of the material, the students will examine point of view and foreshadowing as well as plot and character. **Writing** will focus on sentence and paragraph development. Various types of one-paragraph papers will be the goal, frequently basing writing assignments on our reading. **Note: The book selection is different from last year.**

**Required text: Structured Writing \$47.00 (you must purchase online at [www.structuredwriting.com](http://www.structuredwriting.com)) plus books. Supply Fee: \$25.00**

**Ages 13-14 (\$37.50 per month):** This class will read a variety of timeless literature in order to expand the student's acquaintance with different authors, styles, and genres of literature. Different philosophies of life as well as social issues will be examined through reading and filtered through a Biblical perspective. We will delve deeper into the elements of literature that enable the reader to have a true appreciation of excellent writing. **Writing** will move from one paragraph papers to five paragraph papers centered on our readings. The students will learn to compare characters and themes from one text to another. **Required Text: Structured Writing \$47.00 (you must purchase online at [www.structuredwriting.com](http://www.structuredwriting.com)) plus books. Supply Fee: \$25.00**

**Ages 15-16 (\$40.00 per month):** A continuation of the Western literary tradition moving from 19<sup>th</sup> century British literature to early modern and American literature and poetry. We will continue in more in-depth analysis of each work and the various components that comprise good literature. **Writing** will be based on the literature and the attendant subjects that will be discussed. At this point, the students will be expected to master five-paragraph papers as well as writing based on analysis and research, and how to construct a cogent paper. **Required Text: Structured Writing \$47.00 (you must purchase online at [www.structuredwriting.com](http://www.structuredwriting.com)) plus books. Supply Fee: \$25.00**

**Seniors Only: (\$40.00 per month): Prerequisite: Must have taken my 15-16 yr. old Lit/Writing. (NO EXCEPTIONS)** American literature is the foundation of this senior level class. The workload is heavier with weekly short essay literature analysis questions as well as answering factual questions about the literature we are reading. Recognizing the part played by the different components of a well-crafted story will call for a more thoughtful, interpretive response from students. We will be covering fiction, plays and short stories. **Writing** will be based on the literature and attendant subjects and will work toward the goal of writing a term paper in the spring semester. A thorough working knowledge of sentence structure and grammar is a must. **Required Text: Structured Writing \$47.00 (you must purchase online at [www.structuredwriting.com](http://www.structuredwriting.com)) plus books. Supply Fee: \$25.00**

## **History, Elementary & High School:**

### **(AH 1) American History Part I: The Age of Exploration up to the Civil War**

**(Ages 9/10) Kathy Brown... \$ 35.00 per month**

**Reader's Theatre, simulations, games, poetry, music, cooking, and a field trip will make American History "come alive" for your child**

Using Sonlight Curriculum's literature rich resources, the journey begins from before the Spanish conquistadors arrived till the 1850's, just prior to the Civil War. Sail with Christopher Columbus on his first voyage to the new world in *Pedro's Journal*. Get "caught up" in the Boston Tea Party and the American Revolution in *Johnny Tremain*. Travel with Meriwether Lewis and William Clarke as they explore uncharted North American territory in *The Lewis and Clark Expedition*. And much more! Included in this course are "read-aloud" fiction books designed to be read as a family, as well as non-fiction readers and workbooks designed to be read and completed by your child independently.

**Supply Fee 20.00 per year. Required text from Sonlight Curriculum ([www.sonlight.com](http://www.sonlight.com)):**

The Story of the USA Books, 2 consumable workbooks - \$22.00 #3H36

The Landmark History of the American People, Vols 1 & 2- \$33.50 # 3H29

\* Read Alouds and Readers book list coming soon. These can be purchased through Sonlight, Used Book Stores or may be checked out at the library. *Western Hemisphere Geography (Mapping the World by Heart)* is highly recommended to enhance this course.

### **(AH 2) American History Part II: The Civil War to present day**

**(Ages 11/12) Kathy Brown... \$ 35.00 per month**

**Reader's Theatre, simulations, games, poetry, music, cooking, and a field trip will make American History "come alive" for your child**

Using Sonlight Curriculum's literature rich resources, your child will complete their 2-year study of American History. Undergo the trials of the Civil War with Abraham Lincoln in *Lincoln: A Photobiography*. Brave the danger of the Underground Railroad with Harriet Tubman in *Freedom Train: The Story of Harriet Tubman*. Be part of the California gold rush with Jack and his sister in *By the Great Horned Spoon*. Experience the Great Depression as the bank forecloses on Margo's home in *A Letter to Mrs. Roosevelt*. And much more! Included in this course are "read-aloud" fiction books designed to be read as a family, as well as non-fiction readers and workbooks designed to be read and completed by your child independently. **Supply Fee 20.00 per semester.**

**Required text from Sonlight Curriculum ([www.sonlight.com](http://www.sonlight.com)):**

The Story of the USA Books, 2 consumable workbooks - \$22.00 #4H46

The World Wars- \$25.99 # 4H28

Lincoln: A Photobiography- \$9.99 # 4H11

\* Read Alouds and Readers book list coming soon. These can be purchased through Sonlight, Used Book Stores or may be checked out at the library.

### **(Geog 1) Geography: Mapping the World by Heart by David Smith-**

**Western Hemisphere (Ages 9/10 & 11/12) Kathy Brown ...\$35.00 per month**

Can your child draw detailed maps without an atlas? They can now! You will see the most amazing results! Picture your son or daughter confidently penciling in the Provinces and Territories of Canada, the expanse of the Rocky Mountains and the countries of South America, all by heart. The stunning results of David Smith's curriculum were featured in newspapers across the country in addition to major television talk shows. Students will explore the history of map making, map literacy, map vocabulary and, map making skills using a variety of hands on experiences. Also included will be a study of countries' cultures, customs, foods, clothing, music, architecture, traditions, religions and languages. Over the course of two years your child will have mastered the skills needed to not only know where every continent, country, state, ocean and major river is but be able to draw it as well on a blank grid. Learning geography also helps students improve spatial ordering, critical thinking and an understanding of geographical knowledge that will carry over into many other academic and social environments. **Supply fee \$20.00**

The following is from the “Young American Geographical Illiterate Survey” news article. “Our children are growing up in a rapidly globalizing world. We need to really catch up in offering the foundations for students in geography in the middle and high school level”. Douglas Richardson – Executive Director of the Association of American Geographers. For more on this news article go to <http://news.nationalgeographic.com>

***This course is highly recommended if your child is enrolled in American History-Part –I, or is preparing to go into any of the upper level history courses.***

**(Geog 2) Geography 2: Mapping the World by Heart by David Smith-Eastern Hemisphere (Ages 11/12 & 13/14) Kathy Brown ...\$35.00 per month**

This course completes the two-year “Mapping the World by Heart” course. Your child will be able to draw detailed maps without using an atlas. Imagine your son or daughter penciling in the Middle Eastern countries with certainty, or the expanse of Himalayan Mountains, all by heart. The stunning results of David Smith’s curriculum were featured in newspapers across the country in addition to major television talk shows. Students will practice map skills using a variety of hands on experiences. Also included will be a study of countries' cultures, customs, foods, clothing, music, architecture, traditions, religions and languages. Learning geography helps students improve spatial ordering, critical thinking and an understanding of geographical knowledge that will carry over into many other academic and social environments. **Supply fee \$20.00**

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**(W.Hist) World History (middle school): Kathy Brown...\$37.50 per month**

An introduction to World History using Sonlight's One-Year World History (Alt 7) curriculum. Covers Ancient Egypt through present day.

**(FOWC) Foundations of Western Civilization: (Faith of Our Fathers)**

**Kerry Lundelius...9th Grade, \$60.00 per month (2 hr. class)**

*"Righteousness cannot be done in a land of forgetfulness. Remembrance of the past causes us to act righteously in the present." George Grant*

God’s providence is the working of all things to His glory, and History is the record of those mighty acts. Jesus Christ affected history more than any other individual and the Christian religion has influenced all of time. This course is designed to provide your student with an in-depth understanding of God’s redemptive plan and how individual men fit into His purposes - a look at geography, history, society and culture of Europe and America from a worldview analysis. Foundations of Western Civilization will instill awe and gratitude for those great heroes of the faith beginning with a background study of the Roman Empire. The year takes the student through the Early Church, the Age of Martyrdom, the collapse of the Roman Empire through the Middle Ages, into the Renaissance/Reformation. Emphasis is placed upon the heroes of the period and the achievements of the Reformation. The course concludes with the Pilgrims leaving for the New World, as well as, two weeks spent on 20th Century martyrs. Foxe's *Book of Martyrs* and *The Story of Liberty* by Charles Coffin and *Christian History* are the foundational teaching texts. It is a lecture-driven with video supplements. With a moral philosophy approach, the foundational premise is that wisdom, morality and judgment are essential to an understanding of history. **Supply fee: \$15.**

**Required Curriculum – *Sketches of Church History*, SM Houghton, *Banner of Truth* - \$25.**

*“This book outlines the thrilling story of the onward march of the Church of Christ from the earliest times to the end of the nineteenth century. It is ... a moving record of those who undertook the adventure of faith before us and, through their courage and steadfastness, left an example for the church in every age. Reading of the exploits of those who have gone before us, through times of prosperity and times of persecution, should stimulate, warn and encourage the church in our own age to persevere in the same path, and obtain the same everlasting reward.”*

**(Modern World History) Western Civilization and the Modern World:**

**Kerry Lundelius...10<sup>th</sup> grade, \$60.00 per month (2 hr. class)**

*Dwell on the past and you will lose an eye. Forget the past and you will lose both eyes.*

*Old Russian Proverb*

This course focuses on modern world history, beginning with the French Revolution and continuing through the rise of post-modernism in the late 20th Century. The student will be provided with the big picture of modernity - the stories of people and their decisions, which impacted time and events of the world we live in today. The framework of this approach is referred to by Dr. George Grant as "moral philosophy", meaning that in order to truly understand history, judgment and wisdom and moral beliefs are required. It is not enough to merely know facts and figures, because it is from history that believers are taught lessons which help the Christian thinker to discern and analyze our times, lives, and responses. This course involves a look at geography, history, society and culture of Europe and America from a worldview analysis. What worldviews drove the men and their decisions from the Enlightenment to the French Revolution and finally to the World Wars, including the Cold War? Students are trained to analyze and evaluate the world events of modernity (French Revolution to Ronald Reagan) through the lenses of a biblical worldview.

**Supply fee: \$15. Required curriculum cost: \$20 - *Streams of Civilization Vol II.***

**Western Civilization and (Other Worldviews): (Understanding the Times – Summit Ministries)**

**Kerry Lundelius...11th Grade, \$60.00 per month (2 hr. class)**

*Do the truth and you will love the truth. George MacDonald*

This powerful course, developed by Dr. David Noebel of Summit Ministries, will train students to defend their Christian faith in our world today as we face what Dr. James Dobson refers to as the "great civil war of values." The lecture driven class, with video supplements and vigorous discussion/analysis of current events and contemporary thought, presents an in-depth study of the six major worldviews. The curriculum provides a comprehensive examination of current competing philosophies by studying modern world history, philosophy, social values and politics. Current events, policies, trends, major religions and worldviews are always studied, analyzed and critiqued from a biblical foundation. *Understanding the Times* will open your young person's eyes to the various competing worldviews, equip them with a solid Christian perspective for today's world, and aid them in understanding that ideas have consequences. It will solidify their Christian faith to a logical, rational and persuasive Christian worldview. Finally, it will no doubt motivate students to translate knowledge into action – to move from being part of the problem to being part of the solution. **Supply fee: \$15. Required curriculum cost: \$40 - includes textbook and student manual.**

**American Government and Economics: Kelli Pryor...12th Grade, \$ 60.00 per month (A Biblical Worldview Approach) (2 hr. class)**

*The Christian religion is, above all the Religions that ever prevailed or existed in ancient or modern times, the religion of Wisdom, Virtue, Equity, and Humanity. John Adams*

According to Webster's 1828 Dictionary government is "the exercise of authority; direction and restraint exercised over the actions of men in communities, societies or states; the administration of public affairs, according to established constitution, laws and usages, or by arbitrary edicts." Reflecting on these definitions, it becomes clear that government affects our lives dramatically, and it behooves us to study the system that God has ordained for us as Americans.

This course initially examines the historical beginnings and foundations of U.S. government. Students will study the U.S. Constitution, the debate at the Convention, the Bill of Rights and subsequent amendments all from an historical background relating those events to the present day. The structure and function of America's government will cover the legislative, executive, and judicial branches. In addition, the political party system, elections, campaigns and political involvement will be covered in the class room and through outside projects. State and local governing entities will be studied as those areas, that unbeknownst to most of us, impact our lives the most. Finally students will analyze the role and actions of their government and the media, as well as examine their rights and responsibilities as citizens.

Next the nature and theory of government is studied from God's viewpoint. Here the student will examine the principles of biblically ordained governments and their jurisdiction, learning that ultimately a society only succeeds when the foundations are built on His revealed word and law.

The spring semester's focus is on economics. Economy refers to the management of the resources of a household, private business, community or country; to a system for the management and development of resources. Economics will look at how people make choices among available alternatives in order to

continuously increase their welfare. The basic question that will be investigated is not what causes poverty, but what causes wealth. Logically, the answers will be found in biblical principles. Teaching sources include, *Biblical Economics*, Dave Ramsey – Financial Peace University, Walter Williams, Summit Ministries. **Supply fee: \$15. Required curriculum cost: \$75 - includes 4 textbooks: American Government (Abeka), Economics (Abeka), God and Government Vol I & II, Gary DeMar.**  
**\*\*This is an intensive upper level class and outside preparation will be 3 - 4 hours per week.\*\***

### **Foreign Languages, Elementary-High School:**

#### **(LCD) Latina Christiana I: Karen Wilson...Elem, \$35.00 per month**

Latina Christiana is an introduction to basic Latin grammar, vocabulary and Latin sayings. Through the study of Latin the children will understand the history of our English language, spelling will improve, vocabulary will expand, and memory will sharpen. An overview of Roman History will help the students learn about their own homes, families, and modern civilization.

**Required Text: Latina Christiana I Student Book \$15.00; Pronunciation CD \$4.95; Famous Men of Rome Text \$16.95 Supply Fee: \$10.00** <http://www.memoriapress.com/descriptions/Latina1.html>

#### **(LCII) Latina Christiana II: Karen Wilson...Elem, \$35.00 per month**

Latina Christiana II is a sequel to LCI where students will be able to apply the fundamental concepts learned in the first year as well as further expanding their Latin vocabulary. The students will increase their English vocabulary further through the identification of Latin roots, their memory will sharpen, and the ability to reason will increase as they translate Latin to English and English to Latin. They will gain an understanding of the importance of the Latin Language to the history of the Western Civilization. LCI is a requirement for LCII. **Required Text: Latina Christiana II Student Book \$15.00; Pronunciation CD, \$4.95; Famous Men of Rome Text \$16.95 Supply Fee: \$10.00**

<http://www.memoriapress.com/descriptions/Latina2.html>

#### **(MSLI) Latin I for Middle School: Karen Wilson...\$40.00 per month**

Originally published in 1945, the Henle Latin Series teaches Latin the traditional way. In the First Year text, a limited vocabulary of 500 words allows students to master grammar without being overwhelmed with a large vocabulary. Many repetitious Latin phrases and copious exercises produce mastery rather than frustration, and the mixture of Christian and classical content is appealing to students. The student will focus on nouns and adjectives the first year. This text will be used for several years. There is no prerequisite for students 13 years and older. Younger students that have completed LCII will be accepted.

**Required Text: Henle Latin I Set with Guide to Units I-II, \$42.45; Henle Latin Units I & II Quiz Pack & Exam Guide, \$9.95 Supply Fee: \$10.00**

<http://www.memoriapress.com/descriptions/Henle1.html>

#### **(MSLII) Latin II for Middle School: Karen Wilson...\$40.00 per month**

This course will follow on the Middle School Latin I class. It will cover Units III-V of the Henle Latin I text, focusing on verbs. The prerequisite is Middle School Latin I. Students will receive 1 High School language credit when they complete this course. **Required Text: The Henle Latin text books that the student already has (Henle I Text, Henle I Key, Henle Grammar) plus Henle Latin I Study Guide Units III-V, \$14.95; Henle Latin Units III-V Quiz Pack & Exam Guide, \$9.95; Supply Fee: \$10.00**

<http://www.memoriapress.com/descriptions/Henle1.html>

#### **(HSLI) Latin I for High School: Karen Wilson...40.00 per month**

Originally published in 1945, the Henle Latin Series teaches Latin the traditional way. In the First Year text, a limited vocabulary of 500 words allows students to master grammar without being overwhelmed with a large vocabulary. Many repetitious Latin phrases and copious exercises produce mastery rather than frustration, and the mixture of Christian and classical content is appealing to students. This course will cover double the amount of material that is covered in the Middle School Latin I classes. It will cover Units I-V of the Henle Latin I text, focusing on nouns, adjectives, and verbs. There is no prerequisite for students 14 years and older. This course will count for 1 high school language credit. **Required Text: Henle Latin I Set with Guide to Units I-II \$42.45; Henle Latin I Study Guide for Units III-V \$14.95; Henle Latin Units I & II Quiz Pack & Exam Guide \$9.95; Henle Latin Units III-V Quiz Pack & Exam Guide \$9.95 Supply Fee: \$10.00**

<http://www.memoriapress.com/descriptions/Henle1.html>

**(HSLII) Latin II for High School: Karen Wilson...40.00 per month**

This course will cover additional grammar lessons as well as the student's first introduction to real Latin literature, Caesar's account of his conquest of Gaul (modern France). The military genius of Caesar is studied, as well as that of Vercingetorix, the Gallic freedom fighter who nearly defeated the Roman invaders. They are then compared with Christ himself, who alone, says the author in the preface, "remains an everlasting power, the hope and hero of all mankind." The prerequisite is High School Latin I or Middle School Latin II. This course will count for 1 High School language credit. **Required Text: Henle Latin II Text and Key \$17.95 Supply Fee: \$10.00** <http://www.memoriapress.com/descriptions/Henle2.html>

**(Sp I or Sp II) Spanish: Scarlett Reichmann-Joya...Elem. class, \$35.00 per month**

This energetic teacher will make Spanish a delight using games and music. She is a native of Honduras, educated in Spain, Switzerland and England. All of her classes will have much to offer through a hands-on approach. Fun and games will make this subject easily attainable.

**No required text. Supply fee: \$25.00 per family, per year.**

**Spanish I:** Greetings, numbers, colors, clothing, days, months, body parts, items in a classroom, house, and stores; beginning sentence structure, conversation, and holidays.

**Spanish II:** Vocabulary from Sp I, adjectives, food groups, weather, expressions, story telling & acting, simple dialogue, conjugation of the most used verbs in the present tense form, asking questions and responding.

**Spanish 1a, 1b, 2a, 2b: Scarlett Reichmann-Joya...High School Course, (Ages 11-18) \$40.00 per month**

We will be using the ABeka Spanish curriculum. It is designed for **High School** level, and is intended for the older students who wish to begin Spanish. No experience is necessary for this course. **Required text to be purchased by parent: A Beka Spanish text (book 1a, 1b, 2a, or 2b), with corresponding test booklet & vocabulary book. supply fee?**

**Music, Arts & Electives, Elementary-High School:**

**Art: Judy Mason...Elem- Jr. High School, \$35.00-37.50 per month**

The Art classes this year will continue in Art History referring to mainly the Impressionist Era forward to present day artists. The connection between studying art and producing a working piece of art is in the training of the eye to see the elements of design, so they can be applied effectively. We do this through projects, allowing creativity to be strengthened. Ultimately this strength will develop self-confidence which will be applied to daily life as well. **Supply Fee: \$20.00 for year**

**(Cal) Calligraphy: Mary Alice White...Elem. class, \$35.00 per month**

This class will focus in using calligraphy to improve penmanship and will take children through the various letter forms and proper technique. I will be teaching only one hand – *Italic*. Italic calligraphy was originally designed to be personalized. There are forms to adhere to, but overall the hand becomes an expression of the calligrapher. As the year progresses, individual projects will be assigned where children will learn how to use calligraphy and borders in a project. **Supply fee: 25.00**

**(Dr) Drawing Class: Rhonda Barefield /Tues. & Thurs. and Mary Alice White/ Wed. Elem-High School, \$35.00-40.00 per month**

This drawing class uses the five elements of design in order to break down life pictures into smaller parts. The observant student will learn to draw what they actually see. Contour line, shape, shade and value, negative space and various designs will enhance the imagination on all levels. Mixing color and colored pencils will follow after concepts of shading, shape and design are well composed. Some of the drawings will be integrated with Science lessons: for example, drawing of animals, butterflies, etc. (Science not required) **Parents can sign up to take drawing during the same time as your child (ages 11 and up.) You will not only learn to draw, but you will see what it is that your child is learning. Supply fee: \$25.00 per year.**

**(P Logic) Propositional Logic: Karen Wilson... High School, \$40.00 per month**

This class will continue a student's study of logic by focusing solely on the branch of formal logic known as propositional logic of which formal proofs of validity and truth trees are a subset. First, students are introduced to propositional logic, logical operators, and truth tables, while reviewing and reapplying the concepts of validity, contradiction, consistency, and equivalence. Next, they learn to construct formal proofs of validity and finally discover how to use truth trees to determine consistency, self-contradiction, tautology, equivalency, and validity. There is no prerequisite for students 14 years and older.

**Required Text: Intermediate Logic, Student Text, 2nd Edition \$22.49 from CBD;**

**Intermediate Logic Test Booklet, 2nd Edition \$9.99**

**Supply Fee: \$10.00**

[http://www.christianbook.com/Christian/Books/easy\\_find?Ntk=keywords&Ntt=intermediate+logic&action=Search&N=0&Ne=0&event=ESRCN&nav\\_search=1&cms=1](http://www.christianbook.com/Christian/Books/easy_find?Ntk=keywords&Ntt=intermediate+logic&action=Search&N=0&Ne=0&event=ESRCN&nav_search=1&cms=1)

**(FPF) Foundations in Personal Finance by Dave Ramsey :**

**Amy Wagoner... \$40.00 per month**

A biblically based program that teaches how to manage God's money God's way. This class will empower your student to make the right decisions about money, eliminate debt, build wealth and give like never before. Students will learn the importance of an emergency fund, budget their money, problems with credit card use, investing, insurance, real estate, and college and retirement planning. Foundations in Personal Finance, uses entertaining video and hands-on activities designed by popular TV/radio host and New York Times best seller, Dave Ramsey. **Required textbook: Financial Peace Revisited** found in most bookstores or \$14.99 @ DaveRamsey.com/store and click on the books tab. **Supply fee: \$25.00**

**Piano: Melinda Spray...All ages \$65.00 per month (30 min. class)**

This course is for any student wishing to pursue private piano studies. Music theory, music history, and music appreciation will be included alongside piano instruction. Students will learn to play the piano with proper technique through fun exercises and appropriate pieces for their level. A variety of styles of music including hymns, jazz, popular, and classical music will enhance the learning environment by offering students a richer musical experience. Students will develop skills that will aid them throughout their life.

**Required Text Fee: \$25.00 per semester, this fee will cover lesson, theory, technique, and recital books.**

**(SH) Study Hall:** All students must be enrolled in Study Hall if they have gaps between classes. This is a safety issue for the protection of your children. Cost is **\$20.00** per month for one hour on any given day. Any additional hours on the same day will be an additional **\$10.00** per month.

**(WC) Exploring Water Color/Painting: Rhonda Barefield...\$40.00 per month**

Students learn to apply water color, color theory and composition. We will create different pieces using wet on wet, wet on dry, dry brush, sponge and brush detail techniques.

**Supply fee \$35.00 This will cover pallet, paint, papers, tape, paper towels, cups, boards, brushes and sponges. Student will need to purchase a port folio for transporting all supplies back & forth to class.**

## **Academic Excellence with Fun in Mind!**

- \*language skills
  - \*thinking skills
  - \*reasoning skills
  - \*writing skills
  - \*positive character qualities
  - \*Christian world view
- 

***For Class Information, Registration or bookkeeping call:  
817-870-1884 or email us at***

**[information@scienceetc.com](mailto:information@scienceetc.com)**

**Registration and tuition payment checks should be mailed to:**  
(Checks made payable to Science, Etc.)

Science, Etc.  
c/o Paulette Robison  
P.O. Box 471568  
Fort Worth, Texas 76147

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