



INDEPENDENT STUDIES AT JOHNSON FERRY

COURSE DESCRIPTIONS 2009-2010

SCIENCE PROGRAM

Life Science 5 - This course is taught in two parts, the first following *EXPLORING CREATION WITH ZOOLOGY 1: FLYING CREATURES OF THE FIFTH DAY, BY JEANNIE FULBRIGHT*. The course is designed to be an in-depth study of flying animals. The information in the text book is supported with activities, experiments and projects. The scientific method and how to write a scientific report are emphasized in class. The course covers the nature of zoology, taxonomy, dynamics of flight, birds (physical and behavioral characteristics), bats, flying reptiles and insects (characteristics and lifestyles). The second part of the course will follow *EXPLORING CREATION WITH ZOOLOGY 2: SWIMMING CREATURES OF THE FIFTH DAY BY JEANNIE FULBRIGHT*. The course is an in-depth study of aquatic animals. The information in the text book is also supported with activities, experiments and projects. The course is an introduction to swimming animals (aquatic mammals, amphibians, aquatic reptiles, fish, mollusks and crustaceans) and their habitats. Cephalopods, cnidarians, echinoderms, sponges and tubeworms will also be studied. Teacher: Wendy Grounds

Life Science 6 - This course is taught to sixth grade students in two parts. The first course is taught following *EXPLORING CREATION WITH BOTANY BY JEANNIE FULBRIGHT*. The course is designed to be an in-depth study of the plant kingdom. The information in the text book is supported with activities, experiments and projects. The scientific method and how to write a scientific report are emphasized in class. Students will learn to recognize and classify types of plants, study the development of plants from seeds, plant reproduction and plant nutrition. The second part of this course is *EXPLORING CREATION WITH ZOOLOGY 3: LAND ANIMALS OF THE SIXTH DAY* by Jeannie Fulbright. The course is an in-depth study of land animals. The information in the text book is supported with activities, experiments and projects. The course is an introduction to animals. It includes carnivorous animals, marsupials, primates, rodentia, arthropods, gastropods, reptiles and many more. Teacher: Wendy Grounds

General Science - This course is taught to seventh grade students. This course will serve to introduce the student to the world of scientific inquiry. We will discuss what science is and how it can help us to solve problems. We will learn the scientific method and how it is applied to a variety of disciplines as well as the history of the development of science and the scientific method as man attempted to understand the world around him thru history. We will study biology, geology, and the human body. I hope that students will get a sense of the wonder of discovery that is science and the adventure of trying to make the unknown, known. This course will use *EXPLORING CREATION WITH GENERAL SCIENCE* by WILE Teacher: Karen McFarland

Physical Science - This course is taught to eighth grade students and requires enrollment in Algebra 1. This course will use *EXPLORING CREATION WITH PHYSICAL SCIENCE* by WILE as its main textbook and will supplement with current events articles. Physical Science takes a broad look at the world around us and the universe it is in. It encompasses astronomy, chemistry, earth science, and physics. Students will participate in laboratory experiments that will allow them hands on applications and demonstrations to taught concepts. This course requires participation in the Science Fair where each student will use the Scientific Method to prove a hypothesis. Teacher: Brenda Kelling

HONORS Biology - This course is taught to tenth grade students. This Course is designed to introduce the student to the biological world of God's Creation. The text is *EXPLORING CREATION WITH BIOLOGY* by WILE. Handouts and the use of the *BIOLOGY COLORING BOOK* by ALCAMO will supplement this text. In addition to the description above, this course requires additional requirements. The lab section will concentrate on experiments to give in depth biological exposure to the material we will be studying as well as a brief introduction to some studies of an advanced level over the standard biology curriculum. We will attempt to insert material appropriate to students that may want to pursue further studies in biological science or medicine and the allied health sciences. This course in every way should prepare the student to take AP biology or dual credit college biology courses in their senior year. Students will be expected to keep lab notebooks and write papers on biological topics, in addition to maintaining a B or better average in the standard testing in the course. There may be a research project in the spring semester. Teacher: Dr. Tom Harrison

Chemistry – Not offered in 2009-2010. Teacher: Brenda Kelling

Physics – Not offered in 2009-2010. Teacher: Dr. Tom Harrison

Anatomy and Physiology –This is a course for all students interested in the life sciences and in particular for students considering further study in health related fields. During this course we will study the anatomy of the human body in detail to appreciate the wonder of God's creation. We will also study how the human body and its systems function in detail. This study will be aided by microscopic study of tissues in both health and disease. There may be limited non-human organ dissection depending on time. We will use models for our study of muscles and skeletons. Medical aspects of anatomy and physiology will be covered. Our text will be *THE HUMAN BODY* by Wile and Shannon. An anatomy-coloring book and a power point presentation from an introductory college course in Human Anatomy and Physiology will supplement this text. In addition we will discuss how medicines and drugs work on the physiology of the body. A previous course in Biology will be very helpful in this course. Chemistry will be helpful but not essential, as we will cover the necessary chemistry in the course. The course will meet for an hour and a half twice a week. Lab time will be incorporated unless the class is desirous of spending more time. This time will have to be incorporated into everyone's schedule on an as needed basis. The goal of this course will be to assist all students who wish to take biology beyond the basic course and in particular for those intent on studying the life and health sciences. Teacher: Dr. Tom Harrison

Astronomy - This course is a 2-hr once a week lecture covering an introduction to Astronomy. The course will cover the Sun and our solar system, prominent moons of the planets (Earth, Jupiter, Saturn), and stellar astronomy. In the stellar astronomy section we will study nearby stars, galaxies, nebulae, and discuss some of the latest findings about black holes, pulsars, quasars and the murky dark matter and dark energy. A 2-3 hour nighttime lab will accompany the course at least once a month, hopefully more often depending on weather. The goal of the lab is to make each student familiar with and be able to operate telescopes independently. They will have access to the school's 10-inch reflector as well as 4 and 6-inch refractors and smaller 5-inch reflectors. Students will learn how to navigate around the sky using celestial tracking with computer driven scopes as well as to "star-hop" from point to point in the sky to locate objects by their associations with known stars and constellations. It is hoped that students will be able to take photographs thru the scopes and possibly use a CCD camera to form images they can work with on the computer and print copies for themselves. In the lab, there will be an intense study of the Moon and available planets. We will also observe globular clusters, nebulae and galaxies. We will have one session during the day to look at the sun through special filters to see prominences and sunspots. The latest NASA photos from the Mars rovers, Mars orbiter, and the Cassini mission to Saturn and Titan will augment our study of Mars, Jupiter, and Saturn. We will also employ the Hubble photos to illustrate galaxies, nebulae and objects we cannot see well with our telescopes. It is the goal of this course that the student will have a deeper appreciation of the wonders of the heavens, for they truly proclaim the glory of God now as in ancient times. The student will have a firm foundation for a lifetime study of the wonders of God's celestial creation. Pre-requisites include basic physical science and algebra. Students wanting to take the course but unsure about their mathematical background should talk with the instructor prior to taking the course. Instructor: Dr. Tom Harrison

FOREIGN LANGUAGE PROGRAM

H Latin IA- This course is offered to Junior High students. Students completing this course with a B or better grade will receive .5 units toward their High School foreign language requirements and will be ready to progress to Latin 1B the following year. This course covers Latin noun usage in four cases and three declension groups, plus Latin verbs of all conjugation groups in three tenses active voice, indicative, and imperative moods. Students will translate passages of Latin adapted for their level of grammatical mastery, but written in the style of original Roman authors. They will work with sentences containing all the basic sentence parts except for indirect object, plus they will learn several types of dependent clauses. The grammar exercises require not only Latin-to-English translation, but composition in Latin as well. Students will memorize approximately 350 Latin vocabulary words and will study related English derivatives. They will learn and practice correct Classical Latin pronunciation for the purpose of reading Latin orally. Cultural sections in the textbook in addition to handouts will work to enhance the students' knowledge of the ancient Roman world. The text is *Ecce Romani Book I* with accompanying *Language Activity Book I-A*. Prerequisite: No prior knowledge of Latin is required, but the student must have working knowledge of English grammar, including sentence parts and parts of speech. Teacher: Billie Rolla.

H Latin IB- This course is offered to Junior High students. Students completing this course with a B or better grade will receive .5 units toward their High School foreign language requirements and will be ready to progress to Latin II the following year at the High School level. This course covers Latin noun usage in all five cases and all five declension groups, plus verbs of all conjugation groups in all six tenses in active and passive voice, indicative, and imperative moods. Additionally, the various Latin pronoun forms are introduced. Students will translate passages of Latin adapted for their level of grammatical mastery, but written in the style of original Roman authors. They will work with sentences containing all the basic sentence parts, plus they will advance in their facility with dependent clauses. The grammar exercises require not only Latin-to-English translation, but composition in Latin as well. Students will memorize approximately 350 additional Latin vocabulary words and will study related English derivatives. They will learn and practice correct Classical Latin pronunciation for the purpose of reading Latin orally. Cultural sections in the textbook in addition to handouts will work to enhance the students' knowledge of the ancient Roman world. The texts are *Ecce Romani Book I* with accompanying *Language Activity Book I-B*, plus the opening chapters of *Ecce Romani Book II* and *Language Activity Book II-A*. Prerequisite: Latin IA. Students enrolled in this course will have the option to take the American Classical League's internationally administered National Latin Exam Level I. Teacher: Billie Rolla.

H Latin II/III This course is offered to High School students and will be divided between two Latin levels. All students completing this course will receive 1 unit toward their High School foreign language requirement. This course covers comparative and superlative degrees of adjectives and adverbs, plus participle and infinitives in all tenses and both voices. Subordinate clauses using the subjunctive mood in all four tenses are covered, plus several other elements of more advanced Latin grammar. Students will translate passages of Latin adapted for their level of grammatical mastery, but written in the style of original Roman authors. Advanced Latin students will translate passages written by actual Latin authors. In addition to the normal Latin stories, the Level 2 Latin students will translate actual pieces of Roman literature adapted for student translation. The grammar exercises require not only Latin-to-English translation, but composition in Latin as well. Students will memorize approximately 500 Latin vocabulary words and will study related English derivatives. They will learn and practice correct Classical Latin pronunciation for the purpose of reading Latin orally and for reciting poetry. Cultural sections in the textbook in addition to handouts will work to enhance the students' knowledge of the ancient Roman world. For Latin II students, the text is *Ecce Romani Book II* with accompanying *Language Activity Books II-A* and *II-B*. Latin III students will use *Ecce Romani Book II* and *Ecce Romani Book III* with accompanying *Language Activity Book II-B*. Prerequisite: Latin IB. Students enrolled in this course will have the option to take the American Classical League's internationally administered National Latin Exam Level II. Teacher: Billie Rolla.

High School Spanish I - This course is available to students that have completed 2 years of Latin study. This course uses *PASO A PASO LEVEL 1*, Activities Manual and CDs. There is a strong emphasis on grammar and writing. Students will develop an intermediate level of proficiency in speaking Spanish, including basic survival needs and courtesy requirements. Students will learn to perform functions with language, discuss events in the present tense, near future tense and the present progressive. Class time will include introduction to new vocabulary, grammar and Bible verses, with opportunities for each student to speak. Beyond language proficiency, the course will also study Hispanic culture from a Christian perspective. Students will be expected to do approximately two-three hours of work outside class each week, including memorizing vocabulary and scripture in Spanish, learning new grammar concepts, and reviewing concepts from previous lessons. There will be a practice quiz every other week, one chapter test every three weeks plus one midterm per semester. Teacher: TBA

High School Spanish II – Prerequisites: Spanish I. This course uses *PASO A PASO LEVEL 2*, Activities Manual and CDs. There is a strong emphasis on grammar and writing. Students will develop an intermediate level of proficiency in speaking Spanish, including basic survival needs and courtesy requirements. Students will learn to perform functions with language, discuss events in the present tense, near future tense and the present progressive. Class time will include introduction to new vocabulary, grammar and Bible verses, with opportunities for each student to speak. Beyond language proficiency, the course will also study Hispanic culture from a Christian perspective. Students will be expected to do approximately two-three hours of work outside class each week, including memorizing vocabulary and scripture in Spanish, learning new grammar concepts, and reviewing concepts from previous lessons. There will be a practice quiz every other week, one chapter test every three weeks plus one midterm per semester. Teacher: TBA

High Spanish III – Not offered in 2009-2010. Teacher: TBA

GRAMMAR, COMPOSITION, LITERATURE AND WRITING

English 5 – This course will provide an excellent foundation in grammar, writing, spelling, vocabulary and literature. Students will use *Rod and Staff 5* for grammar instruction. *A Reason for Spelling* is the curriculum for spelling. *Institute for Excellence in Writing* will be used to guide students in adding depth and interest in their creative and formal written expression, as well as in outlines, summaries, and research. A variety of literary works will be used to develop the pleasure of reading during this year. Critical thinking skills for evaluating literature will be developed through classroom discussions, writing assignments, and projects. Vocabulary and literary elements will be included from the books that we read. Teacher: Janette Gragg

English 6 – This course encompasses literature, vocabulary, reading comprehension, grammar, spelling, and writing. Course sources include: *Building Christian English Series* by Rod and Staff Publishers, *A Reason for Spelling* by The Concerned Group, writing lessons based on The Institute for Excellence in Writing, and various literature selections. Critical thinking skills for evaluating literature are developed through classroom discussions, writing assignments, projects, and tests. Teacher: Jill Andersen

English 7 – In English 7, students will study literary classics, Christian biographies, poetry, and the Bible. We will cover grammar as it relates to the students' writing, but the emphasis of this course will be on literature. Included in this will be the study of literary elements, vocabulary, reading comprehension, and the writing of a formal essay. Teacher: Sarah Hunt

English 8 - “These are the times that try men’s souls,” observed Thomas Paine in December of 1776. (www.ushistory.org/paine/) Of course, Paine referred to the crisis of a retreat in the face of British soldiers during the Revolutionary War, but his words often resound with the average teenager faced with yet another year of literary and grammatical studies. Still, like the patriots pursued freedom, students must persevere and with determination master the elements of critical thinking and confident communication. This year’s focus is on those two elements: critical thinking and confident communication. There may be fewer books read, but each literary work is carefully chosen to promote the goals of the course. Writing will be an important element in the course and public speaking will become more important than ever. The work will be challenging, but, to quote Mr. Paine again, “the harder the conflict, the more glorious the triumph.” Teacher: Miriam Moore

Honors English 9 - This course is designed to focus on grammar and composition. It will help the student to transition from oral language to written language. It goes beyond memorizing isolated skills and definitions. Each student will come to recognize grammar as a life skill for successful communication. The foundation of the curriculum is Grammar for Writing by Sadlier-Oxford. This will be supplemented by secular and Christian literature. To accomplish the goals of the course, each student will learn pre-writing, drafting, revising, editing, proofreading and producing a final copy. There will also be a minimum of one oral presentation. In addition, there will be an introduction to the SAT, ACT and PSAT grammar and writing skills.

HONORS OPTION: Complete reading of all literature on the reading list, completion of all writing assignments, a minimum of two oral presentations and a 3.0 cumulative GPA for the course.

Honors English 10 (World Literature and Communications) - “Be it ever so humble, there’s no place like home” goes the old folk song. That may well be, but there is a whole world of great literature and culture and philosophy to explore. This course will take a trip around the world through literature. Asia, Africa, Europe, and the Americas have distinct histories and traditions. Studying each one from a Christian world view will allow students to develop an appreciation for their own culture and give them a vision of humanity from God’s perspective. Teacher: Stephanie Loomis

Honors English 11 (American Literature) – No offered in 2009-2010. Teacher: Jeremy Hill

Honors English 12 (British Literature and Communications) - “All the world’s a stage, And all the men and women merely players; They have their exits and their entrances; And one man in his time plays many parts.” (Shakespeare, As You Like It II. Vii. 139ff)

While Shakespeare likens the world’s stage to humanity, it applies equally to great literature. Each great work has its place, its time, and its universal appeal. British literature is both broad and deep. A single course is insufficient for even a cursory survey, so the goal of this course is to consider the universal elements of a few of the most well known classics. What gives these works their lasting allure? What makes them relevant to the 21st century? And why are American high school students required to study British literature, anyway? Draw back the literary curtain; the performance is about to begin. Teacher: Stephanie Loomis

HISTORY AND SOCIAL SCIENCE

Old World History and Geography – This is a 5th grade class. This class is a study of the Eastern Hemisphere beginning in the Middle East, where history began! We will continue with the history, geography, and culture of Asia, Africa, Europe, Australia, Oceania, and Antarctica. We will use ancient and modern art to better understand the cultures and history that we are learning about. We will also place on emphasis on missions and compare Communism with Americanism. This course will use *OLD WORLD HISTORY AND GEOGRAPHY* by A Beka. Teacher: Miriam Moore

New World History and Geography – This 6th grade course will cover the history and geography of North and South America from a Christian perspective. We will study the geography, animals and people of Canada and the United States, with an emphasis on the Native American Indians. Students will review our American colonial heritage and the Christian heroes of America. The difficulties of the Civil War, WWI and WWII will also be discussed in depth. Finally, we will look at the varied geography, the fascinating animals and the people that live in Mexico, Central America, the West Indies and South America. This class will use *New World History and Geography* by A Beka. Teacher: Janette Gragg

History of the World – This is a 7th grade class. This class will takes students on a journey through time from Creation to the late 20th century. Students will learn to recognize the hand of God in all human events! Christ is the thread that connects the past to the present. From the earliest humans to the World Wars, this class throws perspective on the course of human events. This course will use *HISTORY OF THE WORLD* by A Beka. Teacher: Jeremy Hill

American History – This is a 8th grade class. This is an exciting time to be alive! There is so much change in the world that it is impossible to ignore. As the lines that define the global community blur, and we grow ever closer as a global population through technology, it is more vital than ever to learn and appreciate the importance of Identity. Our identities as Christians and Americans, respectively, are the most important things to cling to in this age. In this class we will remember the “story” part of American History in a couple of ways. Primarily, we will look at the rich history of our relatively young nation with a Christian perspective. We will examine key people, their philosophies and beliefs, and the staggering turns of events that led to the formation of the United States. Along the way, we will listen to the unique voice of America through the words and works of carefully selected American authors as they draw us into the still forming tapestry of the story of our country. This course will use *AMERICAN HISTORY* by A Beka along with an 8th grade Literature List. Teacher: Jeremy Hill

Humanities I – This 9th grade class is a two-part course immerses the student into a linear and thematic overview of the world’s history, cultures, geography, history of ideas, and art. Students examine major world civilizations from the Prehistoric Era to the Modern Age with heavy emphasis on Christian themes and perspective. The birth of foundational ideas in philosophy and culture come into perspective with the art forms (art, music, literature) that they influenced. Topics include: the cradle of civilization, the sprawling civilizations of Greece and Rome; political, social and economic developments of the Middle Ages; the Renaissance and Age of Exploration; and the Reformation. Students will learn about the cultures and philosophies of ancient and modern peoples as they witness the dynamic rise of Christianity throughout the ages. Along the way, students will become familiar with the geography of the world as key locations evolve over time. Battle grounds become metropolises, great cities fall into ruin, ordinary rivers become political boundaries, and New Worlds become America. This course uses the text *WESTERN CIVILIZATION* by Spielvogel. Teacher: Dianne Heissner

Humanities II – Humanities II is a class wherein we study not only Western Civilization, but world geography as it pertains to Western civilization and selected literature from the greatest authors in the Western world. Humanities II includes the study of West Civilization from 1500 (The beginning of the Modern Age) through the present. The time range is representative of the greatest advancement of civilization in the world in the shortest amount of time ever! The rise of Modern Europe from the ashes of Rome and the exciting advent of The Protestant Reformation mark the starting point of this class' journey. Students will learn that the exchange of ideas is the drive-wheel of civilization, and they will explore the history of nations that were destined for greatness. This course is a continuation of Humanities I, but can be joined without having taken that class. This course uses the text *WESTERN CIVILIZATION* by Spielvogel. Teacher: Jeremy Hill

Honors American History – This course is not offered in 2009-2010

Honors American Government - This American government class will trace the development of our Constitutional Republic from its inception by first examining the foundations laid by its architects, our founding fathers. Our Christian heritage and the role it played in shaping our nation's government will be a consistent theme throughout the semester. Detailed examination will be made of the purposes and functions of our Constitution, the Bill of rights, other amendments, and the legislative, executive, and judicial branches of government. Time will also be spent in the study of our state and local governments as well as discussion of our roles and responsibilities as citizens. (Students will get to take the same test that immigrants must pass to attain U.S. citizenship). Current events will be an integral part of our class discussions as students learn the importance of being aware of the events that affect their lives and their nation. Students will learn to filter truth from non-truth in the face of frequently biased, negative and sensational reporting in today's media. Text: *AMERICAN GOVERNMENT IN CHRISTIAN PERSPECTIVE* (ABeka) Teacher: Ginny McCormack

Honors Economics - Economics is the study of the choices that individuals and societies make in the production, distribution, and consumption of goods and services. This course will explore the causes and effects of these choices at both the micro and macroeconomic levels. Study will be given to the development, advantages, and drawbacks of early economic systems. The economic theories of Adam Smith and the classical economists will be studied in detail. Other topics covered will include the factors of production, laws of supply and demand, comparisons and contrasts of command economies and free market economies, and the importance of competition to the health and prosperity of a free market system. The role that government should – or should not – play in the economic process will also be discussed, as well as the functions of money, savings, and investments. Text: *ECONOMICS – WORK AND PROSPERITY* (ABeka) Teacher: Ginny McCormack

MATHEMATICS

Math 5 This course reviews and extends the concepts of basic math. It includes the mastery of complex addition, subtraction, multiplication and division as well as advanced fractions and decimals. Concepts such as percent, ratio, and proportionality are covered. It also provides students a thorough introduction to basic geometry, money, time, measurement and understanding and analyzing graphs. Text: *PROGRESS IN MATHEMATICS*, Sadlier-Oxford.

Teacher: Jane Rogers

Math 6 – This course helps students see mathematics in the world around them. It will motivate them and prepare them for algebra and geometry as well as further their fluency in the language of mathematics. A thorough review of basic mathematical operations including fractions and decimals is offered as well as an in-depth review of the customary and metric systems. Integers are introduced for the first time and basic algebraic equations are solved. An emphasis on study skills and organizational techniques help transition from elementary math to middle school. Students are expected to keep up with assignments on their own, learn to take notes, and keep up with an agenda. The text for the class is *Glencoe Mathematics Applications and Concepts – Course 1* Teacher: Shellie Reynolds

Pre-Algebra/6 – This course is designed for Algebra readiness and is the basis for many mathematics classes. Algebra is a unique language of mathematics and this course prepares students for algebraic problem solving and assessment. Students learn to read, write and understand foundational algebra concepts and discover their purpose in everyday life situations. Students solve multi-step equations and inequalities. Linear functions, graphing, and powers are introduced. Students begin learning right triangle concepts including angles and distance. Basic mathematical operations must be mastered before this class. After completing this course students are prepared for Algebra 1. The text for the class is *Glencoe Pre-Algebra*. Teacher: Jane Rogers

Pre-Algebra – This course is designed for Algebra readiness. Algebra is a unique language of mathematics and this course is designed to prepare students for algebraic problem solving and assessment. Students learn to read, write and understand foundational algebra concepts and discover their purpose in everyday life situations. Basic mathematical operations (+, -, X, /) must be mastered before this class. Linear equations are introduced as well as formulas for area and volume of 2D and 3D objects. Parents are encouraged to sit in on any class if necessary to keep up with the rigorous pace. The text for the class is *Glencoe Pre-Algebra*. Teacher: Jon Ong and Shellie Reynolds

Algebra 1 (Honors Option) – Prerequisite for Honors: Complete Pre-Algebra with a B or better, pass end of course placement exam and receive instructor approval. This is a high school level course integrates all the mathematics the students should have had previously, including a substantial amount of geometry. It provides exposure to linear and quadratic equations; powers and roots; and logarithmic, trigonometric, and polynomial functions. The course begins to develop visual representation of algebraic concepts, manipulation of algebraic equations, and application of algebraic principles to real-world problems. Graphing calculators will be used extensively. The text is *ALGEBRA 1 FROM THE GLENCOE MATH SERIES*. Teacher: Jon Ong

Geometry (with Honors option) examines the foundations of plane and solid geometry while providing students a broad view of geometry including algebraic techniques associated with coordinates and transformations. Algebraic skills and techniques are used extensively in this course. A **graphing calculator** is utilized throughout the course. Topics include: lines and angles, triangles, quadrilaterals and circles, area and volume. The text for the course is *GEOMETRY* from the Glencoe Math series. Teacher: Shellie Reynolds

H Algebra 2 – A TI-84 Graphing Calculator is required for this course. This course integrates all the mathematics the students should have had previously, including a substantial amount of geometry. It develops proficiency in working with linear and quadratic equations; powers and roots; and logarithmic, trigonometric, and polynomial functions. The course's strength is its synergistic emphasis on three major areas: visual representation of algebraic concepts, manipulation of algebraic equations, and application of algebraic principles to real-world problems. The text is *ALGEBRA 2* from the Glencoe Math series. Prerequisite: Successfully complete Algebra I with full mastery of the foundational algebraic concepts, pass end of course placement exam and receive instructor approval. Teacher: Jane Rogers

Advanced Algebra/Trig - This course is a combination of advanced algebra, trigonometry, analysis and analytical geometry. It provides a strong foundation for higher mathematics and encourages students to think critically and independently through problem solving. The course material includes trigonometry, functions and their graphs, vectors and matrices, complex numbers, sequences and series, and conic sections. **The TI-84 graphing calculator is required and used extensively throughout the course.** Students seeking an Honors Option receive credit for **Analysis**. Text: *TRIGONOMETRY*, Larson and Hostetler. Prerequisite: Complete Geometry and Algebra II and receive instructor approval. Teacher: Jane Rogers.

Calculus This course is not offered in 2009-2010 Teacher: Jane Rogers

HIGH SCHOOL REQUIRED COURSES

Health - To promote wellness, health literacy, and positive health behavior in young adults. This course uses the text *Health* by A Beka. (Summer School option 2009). Teacher: Renea Schunk

Physical Education- Swimming, Speed and Agility or self-paced, independent study.

Physical Conditioning (Speed and Agility) - Want to earn your high school PE credit or just get in shape? Join us for an intensive Physical Conditioning training program. To receive high school credit, students must be in the 9th grade and attend at minimum of 50 sessions while documenting any remaining hours for the completion of a total of 75 hours of physical activity. No previous speed and agility training is necessary. Student's grades 7th and 8th may enroll in the course with instructor approval; however, they will not receive high school credit for the course. We will start slow and build up to achieve maximum physical endurance. We will spend the first and last day completing a physical evaluation. This class will help students learn skills to become a better athlete, specifically in the field of running. The goal is to students develop more speed and agility over the course. Teacher: Christian Maiocco. **Course requires registration for Friday Timothy Ministry classes as payment of those fees for both fall and spring semester plus an additional \$150 payable to Independent Studies.**

HIGH SCHOOL FINE ART ELECTIVES

Multicultural Art – After examining God’s use of art Temple and in the Tabernacle to enhance worship, we will study the stylistic visuals and meanings of various non-Christian culture’s art. Using this knowledge interpretively, we will produce our own art in a similar style, with our goal always being to glorify God. During the second semester we will discuss and compare these cultures to the Western styles or art, and produce more projects that emulate these Artistic periods. This course uses the texts *The Annotated Mona Lisa* and *State of the Arts*.
Teacher: Dianne Heissner

Visual Arts: Drawing 1 - This course is not offered during the 2009-2010 school year. Teacher: Dianne Heissner

HIGH SCHOOL ELECTIVES

Yearbook – Students will expand prose development along with learning design principles during their hands-on experience in creating the Vision. There will be writing and research as well as assignments in layout, design, photo editing and professional publishing practices. Deadlines are an extremely important part of the field of journalism and must be strictly adhered to in this class. To miss a deadline costs us an untimely delivery of the yearbook. Students will be given assignments directly affecting the production of the annual. These assignments must be turned in promptly and correctly. Responsible compliance with these goals will not only result in a continually improving the Vision yearbook, but will be a valuable marketable professional skill, and it will also be a beneficial asset on your college applications. Teacher: Dianne Heissner

The Bible and Its Influence – This course is not offered in 2009-2010. Teacher: Jeremy Hill

Old and New Testament Survey - This course is a self-paced, independent study course of the Old and New Testament. The course must be completed in one calendar year and will count for 2 full credits, 1 in Old Testament Survey, the other in New Testament Survey. Additionally, students may choose to complete only Old Testament Survey or New Testament Survey for 1 full unit each. Students choosing this method will have 27 weeks to complete either Old Testament Survey or New Testament Survey. This course uses the text *Through the Bible in One Year*. Although students are working independently, they will have access to the instructor for questions via email.
Facilitator: Kimberly Maiocco

Rhetoric - This course is not offered in 2009-2010.

MIDDLE SCHOOL ELECTIVES

Yearbook – Students will expand prose development along with learning design principles during their hands-on experience in creating the Vision. There will be writing and research as well as assignments in layout, design, photo editing and professional publishing practices. Deadlines are an extremely important part of the field of journalism and must be strictly adhered to in this class. To miss a deadline costs us an untimely delivery of the yearbook. Students will be given assignments directly affecting the production of the annual. These assignments must be turned in promptly and correctly. Responsible compliance with these goals will not only result in a continually improving the Vision yearbook, but will be a valuable marketable professional skill, and it will also be a beneficial asset on your college applications. Teacher: Dianne Heissner **Cost is \$325 for the 2009-2010 school year.**