

**COURSE DESCRIPTION, CURRICULUM & TUTORS  
PROVIDENCE EXTENSION PROGRAM  
2010-2011 JACKSONVILLE**

*(Separate comprehensive Book List provided for book purchasing)*

**Humanities Core A: (7th grade)**

**\* Geography**

The course starts with a physical look at the earth, including the surface and climate and then studies each continent in detail. Students will learn (and learn to spell!) the location, physical features, climate, culture, and capitals of countries including the use and understanding of maps. They will evaluate the spread of the gospel throughout the world.

**Text:** Bob Jones *Geography*

**The Tutor:** Mishell Larmond has a BA in Political Science and International Relations from Taylor University. She also has a Masters of International Relations from Alliant International University. Her love for the Lord, for students and for the world enables her to bring the subject of Geography alive. Her husband, Sean, is career military and plans on retiring to Jacksonville this fall. They have three lovely children.

**\* Composition and World Literature - A**

Students focus on learning the fundamentals of writing. We will begin with grammar, sentence structure, and the formation of paragraphs. Students will be exposed to different types of writing such as, fiction, expository essays, poetry, journalism, and more. The fundamentals of grammar, punctuation, and developing a strong vocabulary will be highlighted in this course. Literature will be chosen to coincide with the Geography course.

**Recommended Books:** *Around the World in 80 Days, Outcast, The Endless Steppe, Call it Courage, The Miracle Worker, A Christmas Carol, additional short stories to be provided. (specific editions will be required by the tutor)*

**The Tutor:** Ann Hinkle has a passion for teaching. She graduated from Florida State University with a degree in English and a minor in Art. She loves students and loves both writing and literature. She brings her wonderful energy and knowledge to our students.

**\*Genesis Thought**

This course begins the process of building a solid Biblical worldview. Since the book of Genesis is the foundation for the Christian worldview, the students will focus on the first eleven chapters of Genesis, while also learning the principles of inductive Bible study.

**Text:** *It All Begins with Genesis*, by Answers in Genesis

**The Tutor:** J. Arnold was homeschooled through junior and senior high and has a Bachelors of Science in Chemistry from the University of North Florida. He has tutored privately and

through various homeschool groups since 2002. J. also serves as youth director at his home church in St. Augustine, teaching students from kindergarten through senior high. He and his wife, Sheri, love living at the beach with their daughter, Mara-Jade, and their son, Liam.

### **Humanities Core B: (8th grade)**

#### **\*World History**

A study of people, cultures, and religions across the globe and through the years, with special concentration on the ancient history of the eastern hemisphere.

**Text:** *Streams of Civilization, The Illustrated Guide to World Religions*

**The tutor:** Heidi Manzone has a B.A. in History/Literature from University of North Florida and a Masters in British History from UNF. She has been teaching history for over 10 years at University of North Florida. She imparts knowledge and a deep love of history to her students.

#### **\*Composition & World Literature - B**

This is a writing class that introduces several different types of writing: fiction, poetry, journalism, essay, research paper, creative writing and more. We focus on improving our writing by concentrating on content and technical areas. Literature selections, which complement World History will be studied by analyzing key components and worldview.

**Recommended Books:** *Romeo & Juliet, Robinson Crusoe, Bronze Bow, Hound of the Baskervilles, I, Juan de Pareja, additional books may be added. (specific editions will be required on the book list)*

**The tutor:** Ann Hinkle has a passion for teaching. She graduated from Florida State University with a degree in English and a minor in Art. She loves students and loves both writing and literature. She brings her wonderful energy and knowledge to our students.

#### **\*Old Testament Survey**

This outstanding Old Testament study exhibits the unity which exists in the Old Testament and shows the historical development of God's work of redemption, emphasizing the fact that the entire Old Testament prepares for the coming of Christ, the eternal King.

**Text:** *The Kingdom of God: A Guide for Old Testament Study*

**The Tutor:** J. Arnold was homeschooled through junior and senior high and has a Bachelors of Science in Chemistry from the University of North Florida. He has tutored privately and through various homeschool groups since 2002. J. also serves as youth director at his home church in St. Augustine, teaching students from kindergarten through senior high. He and his wife, Sheri, love living at the beach with their daughter, Mara-Jade, and their son, Liam.

### **Humanities Core C: (9th grade)**

**\*Logic is a suggested co-requisite for Core C and required for Cores D,E, & F)**

#### **\*American History**

A thorough survey of America's history from Colonial times through the present, emphasizing the philosophies behind the founding of America, as well as the prevailing philosophies which have determined national events throughout our history.

**Text:** *United States History for Christian Schools* (Bob Jones)

**The Tutor:** Heidi Manzone has a B.A. in History/Literature from University of North Florida and a Masters in British History from UNF. She has been teaching history for over 10 years at University of North Florida. She imparts knowledge and a deep love of history to her students.

#### **\*Composition and American Literature - C**

This composition class covers several different types of writing: fiction, literary analysis, formal essay, research paper, and more. We focus on improvement of writing by concentrating on depth of content and formal mechanics. Students will also learn to analyze and annotate texts, and use a style manual when writing. Vocabulary and writing speed are emphasized in preparation for SATs.

**Recommended Books:** *Windows of the World, To Kill a Mockingbird, Uncle Tom's Cabin, The Scarlet Letter, Great American Short Stories, 101 Great American Poems* (specific editions will be required by the tutor)

**The Tutor:** Inez Holger has enjoyed writing and tutoring for the past 15 years. She worked as a contributing editor for Jacksonville Sports Magazine and as a contributing writer for the Mandarin News and St. John's River Pilot, a local community newspaper. Her non fiction works have appeared in various parenting, religious, and gardening magazines and she is currently working on two books. As a member of the Florida Writer's Association, she continues to learn and grow as a writer (which means "rewrite, rewrite, rewrite!").

#### **\*Starting Points**

This is where a young high school student begins to put together his own worldview and own his faith. A student will see how everyone puts his or her own worldview into what he thinks, says, writes--and even how he governs. The student will examine how worldviews effect literature, art, media, government, history and all other areas of life. Students learn about apologetics (defending one's faith) and the basic foundations of the Christian faith.

**Texts:** *Starting Points*, by David Quine

**Recommended Books:** *Frankenstein, The Lion The Witch and the Wardrobe, The Magician's Nephew, The Horse and His Boy, How to Read Slowly, Answers for Difficult Days, Know What You*

*Believe, Dr. Jekyll and Mr. Hyde, The Deadliest Monster, Mere Christianity, Never Before in History* (specific editions will be required by the tutor).

**The tutor:** David Burke has been the pastor at Ortega Presbyterian Church (PCA) for the past 14 years. He has a Bachelor's degree in Electrical Engineering from Wichita State University and a Master of Divinity from Reformed Presbyterian Theological Seminary in Pittsburgh. David and his wife Vickie are avid homeschool supporters. They successfully homeschooled their four children, who are now adults. David and Vickie are the proud grandparents of six grandchildren. David has a pastor's heart and thoroughly enjoys teaching people of all ages.

### **Humanities Core D: (9th-12th grade, 10th suggested)**

**\*(Logic is a pre or co-requisite for Core D)**

#### **\*Ancient History**

A detailed high school level study of ancient western cultures. Students will learn about ancient history, culture, and literature from Ancient Egypt through the Middle Ages.

**Text:** *Western Civilization*, by Jackson Spielvogel

**The Tutor:** Heidi Manzone has a B.A. in History/Literature from University of North Florida and a Masters in British History from UNF. She has been teaching history for over 10 years at University of North Florida. She imparts knowledge and a deep love of history to her students.

#### **\*Composition & Ancient Literature - D**

This is an advanced writing class that covers several different types of writing: fiction, creative writing, poetry, journalism, essay, research paper, and more. We focus on improving our writing by concentrating on content and technical areas. Books will be selected that represent the time periods being studied in the Ancient History course and the ideas being studied in Western Civilization I course.

**Recommended Books:** *The Orestian Trilogy, Three Theban Plays, Julius Caesar, Beowulf, Sir Gawain and the Green Knight, The Song of Roland* (specific editions will be required by the tutor).

**The Tutor:** Dan Clay has a B.A. in History and Master of Arts in Teaching from the University of South Carolina. He also has a Master of Divinity from Reformed Theological Seminary in Orlando. Dan served as a pastor for 14 years and then served with Mission to the World for 3 years. His wife Amy is the Jacksonville site administrator. They have homeschooled their children now for ten years.

#### **\* Western Thought I**

**(Culture/Philosophy/Theology/Apologetics/Literature/Political Theory)**

This interdisciplinary worldview study is designed to give the student: 1) the ability to stand against the thoughts and ideas of the secular culture, 2) an adequate and logical defense for the

hope they have within them, and 3) the ability to take the truth of Christianity into various disciplines. The text, *Worldviews of the Western World, Vol. I*, by David Quine uses Francis Schaeffer's *How Shall We Then Live* as the structure for this 3-year study of western culture. In this first year, students compare and contrast the ideas of the Greek and Roman poets and philosophers with the teachings of the Bible.

**Text:** *World View of the Western World*, by David Quine

**Recommended Books:** *The Aeneid, Genesis in Time and Space, How Then Shall We Live, The Trilogy, The Great Tradition, The Republic, The Iliad, The Odyssey* (specific editions will be required by the tutor).

**The Tutor:** Dan Clay has a B.A. in History and Master of Arts in Teaching from the University of South Carolina. He also has a Master of Divinity from Reformed Theological Seminary in Orlando. Dan served as a pastor for 14 years and then served with Mission to the World for 3 years. His wife Amy is the Jacksonville site administrator. They have homeschooled their children now for ten years.

### **Humanities Core E: (9th-12th grade, 11th suggested)**

**\*(Logic is a pre or co-requisite for Core E)**

#### **\*Medieval to Early Modern History**

A detailed high school level study of western cultures. Students will learn about world history, culture, and literature from the Middle Ages through the Revolutionary times.

**Text:** *Western Civilization Volume I & II*, 5th edition, Jackson Spielvogel (or the 2-year comprehensive edition)

**The Tutor:** Heidi Manzone has a B.A. in History/Literature from University of North Florida and a Masters in British History from UNF. She has been teaching history for over 10 years at University of North Florida. She imparts knowledge and a deep love of history to her students.

#### **\*Rhetoric & Literature I**

First year of a 2-year study of the art and science of persuasion, taken from Aristotle's *The Rhetoric*. Students read and analyze essays, speeches, letters and discourses from Socrates to the present. In addition, each quarter the students will be reading and analyzing a piece of classic literature, which is also read in *Western Thought II*.

**Literature:** Books used in *Western Thought II*, *Penguin Book of Historic Speeches*, and curriculum purchased from the tutor (specific editions will be required by the tutor).

**The tutor:** Lindsay Hipp is a graduate of the University of Florida and has previously taught in the Duval County Public Schools. Lindsay has a great love of writing and literature and the

desire to spread that love to her students. She is married to Andy and they have two children, Benjamin and Lucy. They are members of Eastside Community Church.

### **\*Western Thought II**

#### **(Culture/Philosophy/Theology/Apologetics/Literature/Political Theory)**

This interdisciplinary worldview study is designed to give the student: 1) the ability to stand against the thoughts and ideas of the secular culture, 2) an adequate and logical defense for the hope they have within them, and 3) the ability to take the truth of Christianity into various disciplines. The text, *Worldviews of the Western World, Vol. 2 & 3*, by David Quine uses Francis Schaeffer's *How Shall We Then Live* as the structure for this 3-year study of western culture. In this second year, students compare and contrast the Renaissance view of life with that of the Reformation.

**Text:** *World View of the Western World, Vol. 2 & 3*, by David Quine

**Recommended Books:** *The Holy Bible, How Should We Then Live, The Trilogy, The Universe Next Door, Institutes of the Christian Religion, Patriot's Handbook, Sinners in the Hands of an Angry God, Reasonableness of Christianity, Second Treatise of Government, Communist Manifesto, The Law, The Great Tradition, A Discourse on Miracles,, The Method of Grace, The Federalist Papers, A Tale of Two Cities, Animal Farm, Inferno (specific editions will be required by the tutor)*

**The Tutor:** Dan Clay has a B.A. in History and Master of Arts in Teaching from the University of South Carolina. He also has a Master of Divinity from Reformed Theological Seminary in Orlando. Dan served as a pastor for 14 years and then served with Mission to the World for 3 years. His wife Amy is the Jacksonville site administrator. They have homeschooled their children now for ten years.

### **Humanities Core F: (9th-12th grade, 12th suggested)**

#### **\* Modern History**

A detailed high school level study of western cultures, in which students will learn about world history, culture, and literature from the 19th Century through the present.

**The tutor:** Heidi Manzone has a B.A. in History/Literature from University of North Florida and a Masters in British History from UNF. She has been teaching history for over 10 years at University of North Florida. She imparts knowledge and a deep love of history to her students.

#### **\*Rhetoric & Literature II**

Second year of a 2-year study of the art and science of persuasion, taken from Aristotle's *The Rhetoric*. We read and analyze essays, speeches, letters and discourses from Socrates to the present. In addition, each quarter the students will be reading and analyzing a piece of classic literature, which is also read in Western Thought III.

\*Prerequisite: Rhetoric I

**Text:** *The World's Greatest Speeches*, purchase curriculum from tutor, *MLA Handbook for Writers of Research Papers*, literature used in *Western Thought III* (specific editions required by the tutors)

Tutor: TBA

### **\*Western Thought III**

#### **(Culture/Philosophy/Theology/Apologetics/Literature/Political Theory)**

This interdisciplinary worldview study is designed to give the student: 1) the ability to stand against the thoughts and ideas of the secular culture, 2) an adequate and logical defense for the hope they have within them, and 3) the ability to take the truth of Christianity into various disciplines.

**Text:** *The Soul of Science*, *Darwin on Trial*, 1984, *Brave New World*, *Solomon Among the Postmoderns*, *The New Tolerance*, *Amusing Ourselves To Death*, *The Reason For God*, *Sophie's World*, *Collision*.

**The Tutor:** Dan Clay has a B.A. in History and Master of Arts in Teaching from the University of South Carolina. He also has a Master of Divinity from Reformed Theological Seminary in Orlando. Dan served as a pastor for 14 years and then served with Mission to the World for 3 years. His wife Amy is the Jacksonville site administrator. They have homeschooled their children now for ten years.

### **Other Essential Courses**

#### **Public Speaking:**

If you think delivering a speech is a mystifying process, something only politicians, performers, and preachers can do, this course will take the mystery out of public speaking for you. We will study speeches and learn about strategies for addressing small and large groups. Public speaking is an important skill that you will find useful inside and outside the classroom. Like anything else, speaking takes practice. You will gain plenty of experience reading, writing and performing speeches in a safe, supportive environment.

**Text:** *Secrets of Great Communicator*

**The Tutor:** Luann Eiginger has a Master of Music Education from Indiana University. She has spent years teaching music and developing choirs. She is currently working at First Baptist Church in the Performing Arts Center. She brings a wonderful love of music along with experience to our students.

#### **Government & Economics**

High school students need a solid overview of economic theory before they graduate. This course provides students with a Biblical view of work, wealth, and stewardship. It also contrasts the blessings of a free market economy versus the communist system. We will cover the basics of American government: federal, state, and local. Students will

discuss the constitution and rights and responsibilities as citizens. We will compare our system of government with other forms and discuss contemporary issues from a biblical perspective.

**Text:** *Constitutional Law for the Enlightened Citizen* by Michael Farris, *Economics: Principles and Policy From a Christian Perspective* by Tom Rose

**The Tutor:** Dan Clay has a B.A. in History and Master of Arts in Teaching from the University of South Carolina. He also has a Masters of Divinity from Reformed Theological Seminary in Orlando. Dan served as a pastor for 14 years and then served with Mission to the World for 3 years. His wife Amy is the Jacksonville site administrator. They have homeschooled their children now for ten years.

### Logic

#### Pre or co-requisite for Cores D, E, and F (recommended study for Core C)

Formal logic is the basis of sound rational thinking. Logic helps us to well order our thinking. The first semester is an introductory course in formal logic. The course work will introduce students to an understanding of the Christian theory of knowledge and present an in-depth study of the classical syllogism. The second semester is an advanced formal logic course. It covers the four figures of the traditional syllogism, the three forms of rhetorical arguments (called enthymemes), the three kinds of hypothetical syllogisms, the four kinds of complex syllogisms, as well as relational arguments. In-class discussion will augment the “what and how” with opportunities to “do”. Learning to think well and to think critically is the goal.

**Text:** *Introductory Logic*, Wilson, Nance

**The Tutor:** Vickie Burke started teaching during her high school years on mission trips where she taught in a VBS setting, and continues to devote much time to teaching children about the God of the Bible. While a university student in Kansas, she taught Bible studies, wrote and edited her college newspaper, and graduated with a degree in English literature. She has taught high school English in public and private Christian schools, journalism at the college level, was director of education at Hosanna House here in Jacksonville, led afterschool Bible clubs through the YMCA in Clay County and Duval County, home schooled her own children, and tutored homeschoolers for other families. Vickie is the wife of pastor David Burke, and helps out with kids’ and women’s ministry, music and clerical work at her church, and is a grandmother of six.

### Choir

PEP Choir will be a great opportunity for those who enjoy singing to have a chance to use their voice in a choral setting. In this class, students will learn the basics of good singing which will cover posture, breath control, and vocal production. We will also learn foundational music theory which will lead to reading basic rhythms and melodies. Students will be learning songs that will be performed at the end of each semester.

**The Tutor:** Luann Eiginger has a Master of Music Education from Indiana University. She has spent years teaching music and developing choirs. She is currently working at First Baptist Church in the Performing Arts Center. She brings a wonderful love of music along with experience to our students.

## **Languages**

### **Latin I**

Classical Latin is a language that educated people of all nations have studied for 2000 years. In this study you will increase your English vocabulary (and your SAT scores), better understand the structure of the English language, and learn the culture of Ancient Rome, all while learning a new language. This is an academic course requiring a dedicated student.

**Text:** *Henle Latin I* by Robert Henle

**The Tutor:** Dan Clay has a B.A. in History and Master of Arts in Teaching from the University of South Carolina. He also has a Master of Divinity from Reformed Theological Seminary in Orlando. Dan served as a pastor for 14 years and then served with Mission to the World for 3 years. His wife Amy is the Jacksonville site administrator. They have homeschooled their children now for ten years.

### **Latin II**

Classical Latin is a language that educated people of all nations have studied for 2000 years. In this study you will increase your English vocabulary (and your SAT scores), better understand the structure of the English language, and learn the culture of Ancient Rome, all while learning a new language. In this second year, we will focus on advanced grammar and vocabulary. This is an academic course requiring a dedicated student.

**Text:** *Henle Latin I* by Robert Henle

**The Tutor:** Dan Clay has a B.A. in History and Master of Arts in Teaching from the University of South Carolina. He also has a Master of Divinity from Reformed Theological Seminary in Orlando. Dan served as a pastor for 14 years and then served with Mission to the World for 3 years. His wife Amy is the Jacksonville site administrator. They have homeschooled their children now for ten years.

### **Spanish I**

Spanish I students will be introduced to the basics of the Spanish language. Their vocabulary will increase as they hear and retell short stories in Spanish. They will gain a general understanding of verb conjugation, sentence structure and basic Spanish grammar. They will master present tense verb conjugation. Spanish songs and verses will contribute to their vocabulary.

**Text:** *Buen Viaje, Level I*, Glencoe

**The Tutor:** Nanette Pinto graduated from the University of Wisconsin with a B.A. in Spanish and Portuguese and studied abroad at the University of San Pablo. She has spent years teaching language to children and adults. Her enthusiasm is contagious and she loves to teach students about loving God in another language.

### Spanish II

In this course we will review present tense verbs, focusing on irregular verbs. Then we will introduce past tense and future tense verb conjugation through the use of short Spanish stories. They will develop more of an ear for understanding the spoken language as well as becoming more creative and fluent in speaking. They will be introduced to more advanced grammar including reflexive verbs and indirect and direct object pronoun placement in sentences. They will continue to increase their vocabulary through the use of stories, songs, verses and general classroom conversation.

**Text:** *Buen Viaje, Level II*, Glencoe

**The Tutor:** Nanette Pinto graduated from the University of Wisconsin with a B.A. in Spanish and Portuguese and studied abroad at the University of San Pablo. She has spent years teaching language to children and adults. Her enthusiasm is contagious and she loves to teach students about loving God in another language.

### Mathematics

#### Saxon 8/7

*Saxon 8/7*, covers word problems, scientific notation, statistics and probability, ratios and proportions, simplifying and balancing equations, factoring algebraic expressions, slope-intercept form, graphing linear inequalities, arcs and sectors, and the Pythagorean theorem. The tutor will supplement with math fact drills to ensure mastery. Because math is a daily progress subject, as a parent you will need to supervise the grading and correcting of homework. This should take about 15 minutes every day. With Saxon, it is very important that every problem is done correctly before the child moves on. This will ensure that the new material taught and practiced in class will be thoroughly learned in the homework.

**Text:** *Saxon 8/7*

**The Tutor:** Laurie Bilotta has a BA in Mathematics Education from the University of South Florida. She has been teaching high school, tutoring, and working with home-schooled students for over 16 years. She is a returning teacher with PEP and brings a love for teenagers and a clarity of explanation for difficult topics to the classroom. She helps out at her church by keeping the books and playing the piano, along with her daughter who plays the guitar.

#### Pre-Algebra

The McDougal Littell series of math provides an excellent curriculum for students. There are many varied levels of problems for each lesson, as well as practice tests, standardized test practices and real-world problem solving in each chapter. Online helps include quizzes

throughout the chapters and a power point view of each lesson the teacher goes over in class.

**Text:** *Pre-Algebra*, McDougal-Littell

**The tutor:** Kelly Dahlman has a Bachelor's degree from Hillsdale College in Mathematics and Religion. She taught at a private high school for 3 years and on the college level for 3 years. She has privately tutored all ranges of mathematics. She has begun to pursue a Masters in Mathematics. She has a husband who flies helicopters in the US Navy and together they have two children, Brandon who is 5 and Allison who is 2. She ran cross country and track and field in college and also coached for a couple of years and has competed in the Chicago and Boston Marathon. She loves the study of mathematics and wants to spread the love of education for the sake of a better understanding of God's beautiful creation! Kelly and her family are members at Eastside Community Church.

### Algebra I

The McDougal Littell series of math provides an excellent curriculum for students. There are many varied levels of problems for each lesson, as well as practice tests, standardized test practices and real-world problem solving in each chapter. Online helps include quizzes throughout the chapters and a power point view of each lesson the teacher goes over in class.

**Text:** *Algebra I*, McDougal-Littell

**The Tutor:** J. Arnold was homeschooled through junior and senior high and has a Bachelor of Science in Chemistry from the University of North Florida. He has tutored privately and through various homeschool groups since 2002. J. also serves as youth director at his home church in St. Augustine, teaching students from kindergarten through senior high. He and his wife, Sheri, love living at the beach with their daughter, Mara-Jade, and their son, Liam.

### Geometry

The McDougal Littell series of math provides an excellent curriculum for students. There are many varied levels of problems for each lesson, as well as practice tests, standardized test practices and real-world problem solving in each chapter. On line helps include quizzes throughout the chapters and a power point view of each lesson the teacher goes over in class.

**Text:** *Geometry*, McDougal-Littell

**The Tutor:** Kelly Dahlman has a Bachelor's degree from Hillsdale College, in Mathematics and Religion. She taught at a private high school for 3 years and on the college level for 3 years. She has privately tutored all ranges of mathematics. She has begun to pursue a masters in Mathematics. She has a husband who flies helicopters in the US Navy and together they have two children, Brandon who is 5 and Allison who is 2. She ran cross country and track and field in college and also coached for a couple of years and has competed in the Chicago and Boston Marathon. She loves the study of mathematics and wants to spread the love of education for the sake of a better understanding of God's beautiful creation! Kelly and her family are members at Eastside Community Church.

## Algebra II

The McDougal Littell series of math provides an excellent curriculum for students. There are many varied levels of problems for each lesson, as well as practice tests, standardized test practices and real-world problem solving in each chapter. Online helps include quizzes throughout the chapters and a power point view of each lesson the teacher goes over in class.

**Text:** *Algebra II*, McDougal-Littell

**The Tutor:** Laurie Bilotta has a BA in Mathematics Education from the University of South Florida. She has been teaching high school, tutoring, and working with home-schooled students for over 16 years. She is a returning teacher with PEP and brings a love for teenagers and a clarity of explanation for difficult topics to the classroom. She helps out at her church by keeping the books and playing the piano, along with her daughter who plays the guitar.

## Pre-Calculus

The topics from algebra, geometry, trigonometry, discrete mathematics, and mathematical analysis are interwoven to form a fully integrated text. A rigorous treatment of Euclidean geometry is also presented. Word problems are developed throughout the problem sets and become progressively more elaborate. With this practice, students will be able to solve challenging problems such as rate problems and work problems involving abstract quantities. The graphing calculator is used to graph functions and perform data analysis.

**Text:** *Precalculus with Limits*, Larson, Hostetler, Edwards

**The Tutor:** Laurie Bilotta has a BA in Mathematics Education from the University of South Florida. She has been teaching high school, tutoring, and working with home-schooled students for over 16 years. She is a returning teacher with PEP and brings a love for teenagers and a clarity of explanation for difficult topics to the classroom. She helps out at her church by keeping the books and playing the piano, along with her daughter who plays the guitar.

## Calculus

Covers calculus, trigonometry, and analytic geometry, with emphasis on application to physics, chemistry, engineering, and business.

**Text:** TBA

**The Tutor:** J. Arnold was homeschooled through junior and senior high and has a Bachelor of Science in Chemistry from the University of North Florida. He has tutored privately and through various homeschool groups since 2002. J. also serves as youth director at his home church in St. Augustine, teaching students from kindergarten through senior high. He and his wife, Sheri, love living at the beach with their daughter, Mara-Jade, and their son, Liam.

### **Math/Science Assistance Sessions**

During Math/Science Helps sessions, a tutor will be available to answer specific questions of students needing help with math or upper level science assignments. There will be 2 -half hour sessions available each week. As this is a drop in help session, Study Hall fee is included in the cost of the course.

**Tutor:** J. Arnold

### **Sciences**

#### **Biology (recommended 11th grade)**

Although not a prerequisite, Conceptual Physics and Chemistry will help the student gain a full understanding of topics such as: cellular biology, genetics, biotechnology, origins, microbiology, botany, and zoology. This is considered a lab science.

**Text:** *Biology*, by Bob Jones

**The Tutor:** Joanne Mastronicola brings 20 years experience to PEP. Science and Math are areas she loves and has taught for the last 11 years in co-ops. She is the author of *Piecing Together the High School Puzzle*. She served on the board of Eunice Christian School for ten years. She is currently working on her MBA at the University of North Florida.

#### **Ecology & Marine Biology (recommended 11th & 12th grade)**

The course explores the structure and function of natural ecological systems, and man's relationship to those systems from the standpoint of the "creation mandate" as stated in Genesis. Subjects covered by lecture and/or experiment will be philosophies of ecology, structures and functions of the biosphere, energy and ecosystems, populations studies, and pollution types to name a few. They will discuss marine wildlife and marine habitats. The student will learn about the microscopic organisms that make life in the ocean possible, including details about their interesting habits and life cycles. The student will learn how marine creatures and their physical surroundings form marine ecosystems such as intertidal zones, estuaries, coral reefs, continental shelf communities, epipelagic communities, and deep-ocean communities. The course ends with a study of marine resources and our relationship with the sea.

**Text:** *Pollution and the Death of Man* by Francis Schaeffer, *Apologia Marine Biology*, *Apologia Exploring Creation through Marine Biology*

**The Tutor:** Joanne Mastronicola brings 20 years experience to PEP. Science and Math are areas she loves and has taught for the last 11 years in co-ops. She is the author of *Piecing Together the High School Puzzle*. She served on the board of Eunice Christian School for ten years. She is currently working on her MBA at the University of North Florida.

#### **Chemistry (recommended 10th grade)**

This is a first-year chemistry course which covers measurements and units, atoms and

molecules, classification of matter, the mole concept, stoichiometry, atomic and molecular structure, ionic and covalent bonding, acids and bases, solutions, the gas laws, and thermodynamics. The course will include many lab experiments to learn basic lab skills, practice experiment procedures, and write lab reports. In order to take this course, a student MUST have completed Algebra I. This is considered a lab science.

**Text:** *Apologia Chemistry, Apologia Advanced Chemistry*

**The Tutor:** J. Arnold was homeschooled through junior and senior high and has a Bachelors of Science in Chemistry from the University of North Florida. He has tutored privately and through various homeschool groups since 2002. J. also serves as youth director at his home church in St. Augustine, teaching students from kindergarten through senior high. He and his wife, Sheri, love living at the beach with their daughter, Mara-Jade, and their son, Liam.

### **Conceptual Physics (recommended 9th grade)**

Like a three-legged stool, a thorough science education requires a solid foundation in three disciplines, physics, chemistry and biology. The knowledge of physics is essential to fully understanding the other two disciplines. This course is designed to be an introduction to physics and to lay a foundation for the upper sciences. It is required that the student have completed or currently be enrolled in Algebra I.

**Text:** *Conceptual Physics* by Paul Hewitt

**The Tutor:** J. Arnold was homeschooled through junior and senior high and has a Bachelors of Science in Chemistry from the University of North Florida. He has tutored privately and through various homeschool groups since 2002. J. also serves as youth director at his home church in St. Augustine, teaching students from kindergarten through senior high. He and his wife, Sheri, love living at the beach with their daughter, Mara-Jade, and their son, Liam.

### **Earth & Space Science (recommended 8th grade)**

This course reflects God's handiwork through study of the physical universe. Affirming the young earth Creationary view of the Earth's history and rejecting the uniformitarian/evolutionary models pervading our culture, the material presents a testimony of God's judgement and plan for redemption through the study of scientific philosophy and models, outer space meteorology, geology and oceanography/hydrology.

**Text:** Bob Jones *Space and Earth Science*, 3rd edition.

**The Tutor:** Joanne Mastronicola brings 20 years experience to PEP. Science and Math are areas she loves and has taught for the last 11 years in co-ops. She is the author of *Piecing Together the High School Puzzle*. She served on the board of Eunice Christian School for ten years. She is currently working on her MBA at the University of North Florida.

### **Life Science (recommended 7th grade)**

This hands-on class introduces the living world with all of its wonders. Topics covered are classification, cellular biology, genetics, and the differences between creation and evolution. These provide a firm foundation for the chapters on microbiology, botany, zoology, ecology, and human anatomy.

**Text:** Bob Jones *Life Science*, 3rd edition

**The Tutor:** Joanne Mastronicola brings 20 years experience to PEP. Science and Math are areas she loves and has taught for the last 11 years in co-ops. She is the author of *Piecing Together the High School Puzzle*. She served on the board of Eunice Christian School for ten years. She is currently working on her MBA at the University of North Florida.

### **Advanced Physics (recommended 12th grade)**

This college-prep physics course is designed for the student who has completed Algebra II. It provides a detailed introduction to the methods and concepts of general physics. It provides the student Newton's Laws of Motion and Gravity, Thermodynamics, Electricity and Coulomb's Law, Waves and Fields, Einstein's Theory of Special Relativity and General Relativity, Quantum Mechanics, and Biophysics and Complex Systems. This is considered a lab science.

**Text:** *Physics: Principles with Applications*, 5<sup>th</sup> edition by Giancoli

### **Math/Science Assistance Session**

During Math/Science Helps sessions, a tutor will be available to answer specific questions of students needing help with math or upper level science assignments. There will be 2 -half hour sessions available each week. Since this is a drop in help session, Study Hall fee is included in cost of the course.

**Tutor:** J. Arnold