



2010-11 Online Courses

<u>Course</u>	<u>Teacher</u>
Math	
9-10 Algebra I	Silva
9-11 Geometry	Lewis
9-12 Business Math I	Weldon
9-12 Business Math II	Weldon
10-12 Algebra II	Lewis
11-12 Pre-Calculus Honors	Ferrier
11-12 Calculus Honors	Ferrier
11-12 Advanced Math Honors	Ferrier
English	
9-10 English I	Poteet
9-10 English II	Macedo
10-12 English III	Poteet
11-12 English IV	Griffin
11-12 English IV Honors	Griffin
Science	
9-10 Biology	Davis
9-10 Earth/Physical Science	Davis
11-12 Anatomy/Physiology Honors	Davis
11-12 Chemistry	Davis
11-12 Physics	Davis
History	
9-12 American Government	Ray
9-12 American History	Harvey
9-12 World History	Swanson
Foreign Language	
9-10 Spanish I	Russell
10-12 Spanish II	Russell
11-12 Spanish III	Russell
Bible	
9-12 Understanding Your Faith (Apologetics)	Swanson
9-12 World View/Contemporary Issues	Harvey
Health/PE	
Health/PE	Jennings

GRACE ACADEMY COURSE DESCRIPTIONS WITH BOOK AND SUPPLY LIST 2010-11 ONLINE COURSES

All courses require Internet and email access. To order books, please see the Publishers' Information on the last page. Publishers and the ISBN numbers are listed next to titles.

Grades 9-12 Classes:

MATH:

Advanced Math Honors (Grades 11-12) – (Prerequisite Algebra I, Geometry and Algebra II. This can be taken after Algebra II in the place of Pre-Calculus.) Students will develop their proficiency in Algebra and the understanding of the underlying concepts. All topics in a typical College Algebra course will be covered. This course is suitable for students who plan to major in a non-Science or Math field. It will serve as the 4th High School Math for entry into a 4-year college and the UNC system.

Textbook: College Algebra (7th edition) - Houghton Mifflin Publisher (978-0-618-64310-3) (**Order this book from Cengage Learning at ichapters.com.**)

Study Guide: (978-0-618-64312-7)

Supplies: Calculator (Required) TI83/84 Graphing Calculator

Algebra I (Grades 9-10) - This is a concentrated course which will involve the mastery of various math concepts including operations with real numbers, solving equations and inequalities, polynomials, exponential operations, factoring, functions, systems of equations and inequalities, scatter plots, linear equations, and quadratic equations. This math serves as one of the three requirements for entry into a Community College or the first math required for students heading to a 4-year college and the UNC system.

Textbook: Algebra I - McDougal Littell - A Houghton-Mifflin Company (978-0-618-59402-3)

Supplies: 3-ring binder, 4 tab dividers, red pens, paper, pencils, inexpensive calculator, graph paper.

Algebra II (Grades 10-12) - (Prerequisite: Algebra I & Geometry) - This course includes a review and expansion of Algebra I concepts and irrational and complex numbers, quadratic equations, functions, and problem solving.

Textbook: Algebra II- McDougal Littell - A Houghton-Mifflin Company (978-0-618-59541-9)

Workbook: Practice Workbook Algebra II - McDougal Littell - A Houghton-Mifflin Company (978-0-618-73696-6)

Supplies: Texas Instrument Graphing calculator, loose-leaf paper, graph paper

Business Math I (Grades 9-12) - Students will learn about buying a car, budgeting, banking, investing, keeping tax records, purchasing a home, food, and clothing and more. This will develop analytical and problem solving skills. Topics will include a Scriptural view of working, tithing, saving, paying taxes, and budgeting time and money. This math serves as one of the three requirements for entry into a Community College.

Textbook: Consumer Mathematics in Christian Perspective – ABEKA (26603).

Money Matters for Teens by Larry Burkett – Moody Publishers (0802446361)

Business Math II (Grades 10 -12) - Students will learn the math involved with operating a business, making investments, successfully managing family finances, and how to apply the principle of good stewardship. Scripture will be referenced to train students to have godly attitudes toward finances and work responsibilities. Students will use skills to solve real-life computing problems and be guided toward independent thinking. This math serves as one of the three requirements for entry into a Community College.

Textbook: Business Mathematics – ABEKA (67946).

Calculus Honors (Grades 11-12) (Prerequisite: Algebra I, Geometry, Algebra II & Pre Calculus)

This course introduces the basic concepts of calculus, including the definition and application of derivative to polynomial, trigonometric, exponential, and logarithmic functions. Related rates, the fundamental theorem of calculus, and graphics applications are also introduced.

Textbook: Calculus of a Single Variable, 8th Edition - McDougal Littell - A Houghton-Mifflin Company (978-0-618-50304-9)

Supplies: Calculator TI 83/84 (Required)

Geometry (Grades 9-11) - (Prerequisite: Algebra I) - An organized and logical study of the use of undefined terms, definitions, postulates, and theorems. This course will be an in-depth study of concepts of geometry.

Textbook: Geometry- McDougal Littell - A Houghton-Mifflin Company (978-0-618-59540-2)

Supplies: Scientific Calculator, loose-leaf paper, graph paper, protractor

Pre-Calculus Honors (Grades 11-12) (4 day) (Prerequisite: Algebra I, Geometry, and Algebra II)

- This course is designed to help students develop their proficiency in Algebra and so strengthen the understanding of the underlying concepts. Although the basic concepts of Algebra are reviewed in the class, a firm foundation in Algebra is necessary for success in college-level mathematics. Every opportunity to show how Algebra is a modern modeling language for real life problems will be explored. Examples, exercises, and group activities provide a real-life context to help students grasp mathematical concepts. This course is suitable for students who plan to major in a Science or Math field. It will serve as the 4th High School Math for entry into a 4-year college and the UNC system.

Textbook: Pre Calculus, 7th Edition - McDougal Larson/Hostetler Houghton Mifflin Publisher (0-618-64345-1)

Pre Calculus Study Solutions - McDougal Larson/Hostetler Houghton Mifflin Publisher (0-618-64347-8)

Supplies: Graphing calculator TI-83-84 (**required**)

ENGLISH:

English I (Grades 9-10) – Students will be introduced to various forms, and authors, of Creative Writing. Students will create their own literary works including poetry, ballads, fables, tall tales and short stories. Students will also read and analyze three literary works covering various genres including English and American literature. Students will write complete papers/projects based on these novels.

Books: All students must have the same edition/publisher for class.

A Christmas Carol by Charles Dickens - Dover Classics (0486268659).

The Hobbit by J.R.R. Tolkein - DelRey (0345339681).

The Gift of the Magi & Other Stories by O. Henry - Dover Classics (0486270610).

Across Five Aprils by Irene Hunt - Berkley (9780425102411).

English II (Grades 9-10) – (Prerequisite: English I or equivalent) This course consists of an extension of grammar learned in English I and a literature series of four units. There will be a focus on editing skills to be used for essays based on the literature selections. A reading and comprehension component to this course will aid students in interpreting literary devices used by great writers.

Books: All students must have the same edition/publisher for class

Twelfth Night by William Shakespeare - Dover Classics (0486292908).

All Quiet on the Western Front by Enrich Maria Remarque (0449213943).

Adam of the Road by Elizabeth Janet Gray - Puffin Classics (014032464X).

Wuthering Heights by Emily Bronte - Dover (0486292568).

English III (Grades 11-12) - Students will complete a research paper using the MLA (Modern Language Association) format. This will include choosing a topic, forming a thesis statement, researching the topic, creating an outline, and writing a research paper using in-text citation with a Works Cited page. Students will also read and analyze three literary works covering various genres including English and American literature. Students will write complete papers/projects based on these novels.

Textbook: Practice In Style: Activities for Writing the Short Term Paper - Perfection Learning (0789166666).

Books: All students must have the same edition/publisher for class

Ethan Frome by Edith Wharton – Signet Classic (9780451527660).

Old Man and The Sea by Ernest Hemingway - Simon-Schuster (9780684801223).

The Scarlett Pimpernel by B. Orczy – Signet Classic (9780451527622).

English IV (Grades 11-12) – This course focuses on literature and composition. Students will analyze four literary works including an epic, an American play and European works. Students will learn about various types of composition including persuasive and descriptive essays, poetry, a personal narrative and practical writing like resume and cover letter preparation.

Books: All students must have the same edition/publisher for class.

The Odyssey by Homer - Penguin Classic (0140449116).

The Count of Monte Cristo by Alexandre Dumas – McGraw-Hill (0553213504).

Our Town: A Play in Three Acts by Thornton Wilder - Harper-Collins (0060929847).

English IV Honors (Grades 11-12) – In addition to the description for English IV, this Honors course will focus on preparing written literacy analyses of their own essays and the literature covered. By the end of the course students will be able to perform a literary analysis independently. Finished assignments are expected to be in a standard format and free of most grammar and spelling errors in an effort to prepare students for college.

Books: All students must have the same edition/publisher for class.

The Odyssey by Homer - Penguin Classic (0140449116).

The Count of Monte Cristo by Alexandre Dumas –Random House (0553213504).

Our Town: A Play in Three Acts by Thornton Wilder - Harper-Collins (0060929847).

The Canterbury Tales by Geoffrey Chaucer – Random House (0553210823).

SCIENCE

Anatomy/Physiology Honors - (Prerequisite: Biology and Chemistry) - This course is designed as an introductory course to the human body. The goal is to integrate the study of the structures of the human body with their functions. We will cover Histology, Skin & Bones, The Integumentary & Skeletal System, Histology & Movement, Muscle Histology & Physiology, Skeletal Muscle System, Nervous System (Central & Peripheral), Circulatory System, Lymphatic System, Digestive System, Respiratory System, Urinary System and Reproductive System. This course uses a systematic approach in studying the 11 systems of the human body. This course includes online labs.

Textbook: The Human Body (Advanced Biology), 2 volumes – Apologia (WW239003)

Biology (Grades 9-10) - Biology is a foundational course to other upper level science classes. This course is designed to help students understand DNA, definition of species, bacteria, types of phylum, fungi, molecules, photosynthesis, cell structure, genetics, and more in a hands-on experiment driven environment. This course includes online labs and dissection.

Textbook: Exploring Creation with Biology, 2nd Edition - Apologia Educational Ministries (1932012540).

Chemistry (Grades 11-12) (Prerequisite: Algebra I & II) - This physical science course gives high school students a foundation in Chemistry. Students will learn about the chemical make-up of their world through laboratory experiments and problem-solving skills are emphasized. Students should have completed Algebra I and II or be taking Algebra II while taking this course.

Textbook: Exploring Creation with Chemistry, 2nd edition - Apologia (978-1-932012-26-2).

Supplies: A scientific calculator is required.

Earth/Physical Science (Grades 9-10) - Students will discover and explore topics such as the atmosphere, the hydrosphere, weather, structure of the earth, environmentalism, the physics of motion, Newton's Laws, gravity and astrophysics.

Textbook: Exploring Creation with Physical Science, 2nd edition – Apologia (978-1-932012-77-4)

Physics (Grade 11-12) (Prerequisite: The student should have completed Algebra II and have some working knowledge of trigonometry.) – Physics is a physical science course that provides a detailed introduction to the methods and concepts of general physics and is designed to prepare the student for university level physics. It will provide 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.

Textbook: Exploring Creation with Physics, 2nd edition – Apologia (978-1-932012-42-2)

Supplies: A scientific calculator is required.

HISTORY

American Government - Students will develop a firm foundation of government through a study of the Constitution and other founding documents, federalism, and government at the national, state, and local levels.

Textbook: American Government Christian Perspective, Grade 12 – ABEKA (38733).

State and Local Government – ABEKA (63665)

American History - Students will explore the story of America from a Christian worldview, from the pre-colonization period to the present (~1000 A.D.- 2004). The course will cover the historical facts of our history as well as how God has moved in our nation.

Textbook: The American Republic Student Text, 2nd edition – BJU Press (978-1-59166-425-3).

World History – In this writing based course, students will be taken from the Garden of Eden to 20th Century Europe. They will be assigned essays to help them track the movement of political, religious, and economic systems. This course will train students on how to write a Chicago/Turabian style research paper, which is the type of paper used in history departments at the collegiate level.

Textbook: World History & Cultures in Christian Perspective - ABEKA (57223).

FOREIGN LANGUAGE

Spanish I (Grades 9-10) - This course is designed for students with no prior Spanish language background. Basic vocabulary, pronunciation, reading, and writing are implemented throughout the course. The online course features a variety of videos to teach pronunciation and get the student used to listening to native Spanish speakers. Homework, quizzes and videos will play an important role in the Spanish development skills. A workbook will be used for homework to practice writing skills and reinforce vocabulary and language concepts.

Textbook: Navegando 1 - EMC Paradigm Publishing (978-0-8219-2798-4).

Workbook: (978-0-82192-801-1)

Spanish II (Grades 10-12) - (Prerequisite: Spanish I) - This course will expand on the listening, speaking, reading and writing skills developed in Spanish I. This class will introduce more vocabulary and grammar, verb tenses and immerse beginning Spanish students into the language. Homework, quizzes and videos will play an important role in the Spanish development skills. A workbook will be used at home with exercises to practice writing skills and reinforce vocabulary and language concepts. The online course features a variety of videos to teach students the correct pronunciation by listening to native Spanish speakers.

Textbook: Navegando 2 - EMC Paradigm Publishing (978-0-8219-2839-4)

Workbook: (978-0-82192-842-4)

Spanish III (Grades 11-12) - (Prerequisite: Spanish II) - This course will continue to expand on the listening, speaking, reading and writing skills developed in Spanish II. Spanish III will reinforce vocabulary, grammar and verb tenses and immerse Spanish students into the language. Homework, quizzes and videos will play an important role in the Spanish development skills. A workbook will be used at home with exercises to practice writing skills and reinforce vocabulary and language concepts. The online course features a variety of videos to teach students the correct pronunciation by listening to native Spanish speakers.

Textbook: Navegando 3 - EMC Paradigm Publishing (978-0-82192-864-6)

Workbook: TBA

BIBLE

Understanding Your Faith - (aka Apologetics 101) 1 Peter 3:15 "But in your hearts set apart Christ as Lord. Always be prepared to give an answer to everyone who asks you to give the reason for the hope that you have. But do this with gentleness and respect..." Ever have questions about why you believe what you believe? There are answers and this class focuses on instilling these answers onto the hearts of students and gives them the wisdom to defend what they believe. This course is taught from an evangelical perspective.

Books: - "I Don't Have Enough Faith to be an Atheist" - Frank Turek

Worldview/Contemporary Issues – Culture is constantly changing, but the questions remain the same . . . "Who is God?" "Why does he allow evil and suffering?" "Who am I?" "Who is Jesus" "Is the Bible trustworthy?" "Are all religions basically the same?" "Why do I need God" "What does it mean to be a Christian?" This course explores religion's answers to the important questions of life and how Christianity offers true hope in an unpredictable world.

Books: TBA

Health/PE

Health/ PE – Students will learn the importance of health and fitness. Students participate in activities to increase their heart rate and learn how to take care of their body with exercise and nutrition. Students will learn the value and benefits of physical activity. Just as important, they learn physical activity can and should be fun.

Textbook: Fitness for Life – 5th edition - Charles B. Corbin, Ruth Lindsey – Human Kinetics (978-0-7360-6676-1)

Publisher Information

ABEKA P.O. Box 19100, Pensacola, FL 32523-9100 1-877-223-5226 www.abeka.com

Amazon www.amazon.com

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1106 Meridian Plaza, Suite 220, Anderson, Indiana 46016 1-888-524-4724
www.highschoolscience.com

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www.EMCP.com

Half.com www.half.com

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