



Summer 2012 Online Courses

(Courses run from Monday, June 11th through Friday, August 17th)

Course

Math

9-10 Algebra I
9-11 Geometry
9-12 Business Math I
10-12 Business Math II
10-12 Algebra II
11-12 Advanced Math Honors
11-12 Pre-Calculus Honors

English

9-10 English I
9-10 English II
11-12 English III
11-12 English IV
11-12 English IV Honors

Science

9-10 Biology
9-10 Earth/Physical Science
11-12 Anatomy/Physiology Honors
11-12 Chemistry
11-12 Physics

History

9-10 American History
9-12 World History
11-12 American Government

Foreign Language

9-10 Spanish I
10-12 Spanish II
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Bible

9-12 Understanding Your Faith (Apologetics)
9-12 New Testament Survey

Health

9-12 Health

Additional Electives

9-12 Computer Science
9-12 SAT Prep

GRACE ACADEMY COURSE DESCRIPTIONS WITH BOOK AND SUPPLY LIST Summer 2012 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.

MATH:

Advanced Math Honors (Grades 11-12) (Prerequisite Algebra I, Geometry and Algebra II) -This concentrated course lays the groundwork for further study of mathematics at a college level. The standard pre-calculus topics are presented, as well as substantial new material on discrete mathematics and data analysis. In this course we will explore examples and exercises that establish the importance of mathematics to everyday life. There will be numerous worked-out examples, important results given and daily exercises. Topics covered: Functions, Graphs and Applications; Trigonometry; Discrete Mathematics and Data Analysis; Limits and Introduction to Calculus. Students will prepare for College Entrance Examinations and explore careers in Mathematics.

Textbook: Advanced Mathematics – Richard G. Brown – McDougal Littell - A Houghton Mifflin Company (978-0-618-25037-0)

Supplies: Graphing Calculator TI 83/84 (Required)

Algebra I (Grades 9-10) - This concentrated course 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.

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

Supplies: 1inch 3-ring binder, 4 tab dividers, red pens, paper, pencils, inexpensive calculator, graph paper

Algebra II (Grades 10-12) (Prerequisite: Algebra I & Geometry) - This concentrated 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: Graphing Calculator TI 83/84 (Required), loose-leaf paper, graph paper

Business Math I (Grades 9-12) – This concentrated practical course will cover topics such as buying a car, budgeting, banking, investing, keeping tax records, purchasing a home, food, and clothing. Analytical and problem solving skills will be emphasized. Students will learn a Scriptural view of working, tithing, saving, paying taxes, and budgeting time and money.

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

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

Business Math II (Grades 10 -12) – In this concentrated course, 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.

Textbook: Business Mathematics – ABEKA (67946)

Geometry (Grades 9-11) (Prerequisite: Algebra I) - This concentrated course is an organized and logical study of the use of undefined terms, definitions, postulates, theorems and 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) (Prerequisite: Algebra I, Geometry, and Algebra II) - This concentrated 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 and exercises provide a real-life context to help students grasp mathematical concepts.

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

ENGLISH:

English I (Grades 9-10) – In this concentrated course, 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 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 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) – Students in this concentrated course will learn how to write various five paragraph essays including narrative, persuasive, expository and descriptive. Students will learn how to organize and communicate ideas concisely and coherently using topic sentences, supporting details, and transitional devices. Students will also analyze three literary works including science fiction, short stories and a Shakespearean play. Students will complete papers/projects based on the readings.

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

The Time Machine by H.G. Wells-Dover Thrift Editions (0486284727)

Edgar Allan Poe: A Collection of Stories by Edgar Allan Poe-Doherty – Tom Associates (9780812504552).

Twelfth Night by William Shakespeare – Simon and Schuster (9780743482776).

English III (Grades 11-12) - Students in this concentrated course 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 complete papers/projects based on these novels.

Textbook: Practice In Style: Activities for Writing the Short Term Paper - (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 concentrated course focuses on literature and composition. Students will analyze three literary works including an epic, an American play and European works. Students will learn about various types of composition including narrative and descriptive essays 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 concentrated Honors course will focus on preparing written literary analyses of the literature covered. Students must have working knowledge of MLA format requirements for writing a paper.

By the end of the course, students will be able to create 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).

SCIENCE

Anatomy/Physiology Honors (Grades 11-12) (Prerequisite: Biology and Chemistry) - This concentrated course is designed as an introductory course to the human body. The objective of this course is to integrate the study of the structures of the human body with their functions. A systematic approach will be used to study the 11 systems of the human body: 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 includes online labs.

Textbook: The Human Body (Advanced Biology), 2 volumes – Apologia (9781932012095)

Biology (Grades 9-10) - This concentrated course provides a detailed introduction to the methods and concepts of general biology. Heavily emphasizing the vocabulary of biology, it provides the student with a strong background in the scientific method, the five-kingdom classification scheme, microscopy, biochemistry, cellular biology, molecular and Mendelian genetics, evolution, dissection, and ecosystems. It also provides a complete survey of the five kingdoms in Creation. 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, Biology, and Earth Science) - This concentrated 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.

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

Supplies: Scientific calculator (required)

Earth/Physical Science (Grades 9-10) – In this concentrated course, 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: 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. This concentrated course 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: Scientific calculator (required)

HISTORY

American Government (Grades 11-12) – In this concentrated course, students will develop an understanding of government through a study of our founding documents, the Constitution of the United States, the government of other countries and our government at the national, state and

local levels. Our great leaders, important events, world changing legislation and social programs will add texture to the course content.

American History (Grades 9-10) – Students will explore the story of America from a Christian worldview, from the pre-colonization period to the present (~1000 A.D.- 2004). This concentrated 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 (Grades 9-12) – In this concentrated 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. This concentrated course features a variety of videos to teach pronunciation and get the student used to listening to native Spanish speakers. Assignments, quizzes and videos will play an important role in the Spanish development skills. A workbook will be used 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 concentrated course will introduce more vocabulary and grammar, verb tenses and immerse beginning Spanish students into the language. Assignments, quizzes and videos will play an important role in the Spanish development skills. A workbook will be used 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 concentrated 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. Assignments, quizzes and videos will play an important role in the Spanish development skills. A workbook will be used 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: (978-0-8219-2867-7)

BIBLE

New Testament Survey (Grades 9-12) - This course covers the books of the New Testament. The aim is to acquaint each student with the gospels, history of the early church, epistles and Revelation. At the completion of this concentrated course, students will be able to list the basic facts of each book's historical background, theme and content, understand the life of Christ and His teachings, describe the history of the early church, and analyze the attributes of a Christian Lifestyle.

Textbook: Nelson's New Testament Survey: Discovering the Essence, Background & Meaning about Every New Testament Book – (1418532274)

Understanding Your Faith (Grades 9-12) - (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 concentrated course focuses on instilling these answers onto the hearts of students and gives them the wisdom to defend what they believe. This concentrated course is taught from an evangelical perspective.

Book: - "I Don't Have Enough Faith to be an Atheist" by Frank Turek – (978-1-58134-561-2)

HEALTH

Health (Grades 9-12) – This is the health portion only of the Health/PE credit required for high school. The PE portion can be fulfilled by playing a team sport at Grace Academy.

This course is designed to enable students to build a foundation of knowledge and understanding on how to make healthy decisions throughout their lifetime. Students will learn important health issues, how to take care of their body, benefits of physical activity, types of physical activities, self management skills, making smart food choices, healthy lifestyles, stress management, how to create a personal program and more. Basically, how to be fit for life!

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

ADDITIONAL ELECTIVES

Computer Basic (Grades 9-12) - In this concentrated course, students will discover the history, purpose, and basic uses of computers. Students will learn important skills necessary to function in today's technological world including word processing, database/spreadsheet operation, and media presentation. Students will learn to create newsletters, posters, resumes, budgets, charts/graphs, presentations using various media outlets, etc. Through hands-on learning students will come away with computer skills that will give them the confidence to handle tasks required in college and the workplace. This course is both Mac and PC friendly!

Publisher Information

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Amazon www.amazon.com

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