

High School Course Descriptions

History

Geography (1 unit) - Begins with physical geography, emphasizing the wisdom with which God created the for man's use. The focus is political, economic and cultural geography.

World History (1 unit) - Surveys world history from creation to modern times. The course also exposes the student to politics, economics, geography, and the arts and sciences.

US History (1 unit) - Surveys American history from its discovery to the present while emphasizing the underlying causes and issues behind events. The chapters on the Civil War, for example go beyond the main issues of slavery and states' rights to the other underlying factors that brought about that war.

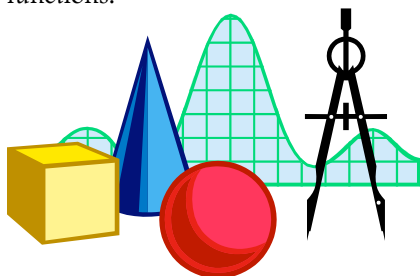
American Government (1/2 unit) - Examines the principles and the mechanics of our constitutional republic while underscoring the responsibilities of Christian citizenship within our society. Areas of emphasis include governmental principles, the Constitution, political parties, elections, pressure groups, citizenship, branches of government and economics. Students taking this course travel to Washington DC.

Economics (1/2 unit) - Surveys the basic economic principles and explores how these principles work in business firms, financial markets, and government. It also includes a practical analysis of the use of economic principles in managing the finances of a household. Free market ideals and Christian economic values are stressed throughout the text.

Health (1/2 unit) - Chapter headings include: body basics, mental and emotional health, social health, nutrition, exercise, safety, first aid, diseases, personal hygiene, environment and health, drugs, alcohol and tobacco; growth and development. The program is designed to meet student needs while also meeting State requirements. Sex education and AIDS education is included.

Math

Algebra 1 (1 unit) - Contains a special computer section in each chapter to introduce the student to the terminology of the computer world. This practical book emphasizes methods of solving first- and second-degree equations and inequalities. Basic algebraic skills are introduced in a logical order, including relations, functions, graphing, systems of equations, radicals, factoring polynomials, rational equations, and quadratic functions.



Geometry (1 unit) - Focuses on geometry in the world around us. It includes the study of parallel lines and transversals, congruent triangles, transformations, and symmetry similar figures, and circles and related figures, and concludes with a study of right triangle trigonometry and analytic geometry.

Algebra 2 (1 unit) - The course includes review of the basic skill needed in algebra in the first seven chapters, including detailed studies of linear equations and function, polynomials, factoring quadratic equations and functions, systems of equations, and radicals. After establishing this basis, the text presents more advanced topics, such as complex numbers, rational expressions and equations, conic sections, trigonometry, exponents and logarithms, matrices, and probability.

Pre Calculus (1 unit) - Includes a spiral approach to trigonometry, an in-depth view of algebra, and an introduction to calculus. Formulas are derived rather than given, and graphing is done in the polar and Cartesian systems. Polynomial and rational functions, sequences and series and an introduction to differential and integral calculus are offered.

Science

Earth Science/lab (1 unit) - Deals with astronomy - the Sun, Moon, stars, planets, asteroids, comets, meteors, and the exploration of space, discusses the perfection of God's design in a study of the earth, including the atmosphere, the lithosphere, and the hydrosphere, avoids presenting the material as a collection of facts but rather presents it as interesting processes, historically important events, and structures and actions that can be observed in or from the earth today.

Biology/lab (1 unit) - Cellular biology, genetics, zoology, and human anatomy and physiology receive thorough coverage. Discussion on creationism and evolution and also the Christian position regarding eugenics, drugs, abortion, diseases, euthanasia, hypnotism, homosexuality, ecology, self-control, genetic engineering, immunology, AIDS, animal rights, cancer, etc. Lab class reinforces biology concepts including dissections. Microbiology, botany, zoology, and thorough coverage. Presents scientific information needed to live in today's world as well as the biblical perspectives Christians must understand in order to take the proper stand.

Basic Chemistry/lab (1 unit) - Presents functional ideas behind atomic structure, bonding, stoichiometry, nomenclature, kinetic theory, solutions, equilibrium, thermo chemistry, acid-base chemistry, electrochemistry, organic and biological chemistry, and nuclear chemistry. It also stresses applications of chemistry, identifies marvels of design in creation, and promotes the development of organized problem solving. Lab class contains not only the standard highly structured inductive and deductive approaches but also some special labs of minimal structure in which students design their own procedures.

Physics/lab (1 unit) - Principles of physics are illustrated by everyday experiences and practical devices.

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English

Fundamentals of Literature (1 unit) - Teaches the process of literary analysis that enables students to interpret and evaluate what they read as they define and discern the basic elements in a literary work. The text is organized into six units: conflict, character, theme, structure, point of view, and moral tone. The selection represent a wide range of authors and a broad sampling of literary forms, including Rostand's drama *Cyrano de Bergerac*. The writing text provides instruction in how to take minutes and notes, form good topic sentences, write descriptive paragraphs, and anecdotes. Students also learn how to differentiate fact from opinion, to credit quoted sources, and to paraphrase properly. Grammar topics include phrases, gerunds, adjective clauses, adverb clauses, subordinating conjunction, complex sentences, and pronoun reference. The theme of nonverbal and non oral communication includes such topics as signal flags, Braille, and sign language.

Elements of Literature (1 unit) Builds on the foundation provided in the ninth grade by focusing on details of the basic elements analyzed when interpreting literature. The course is organized into units within three major divisions: 1. the marks of literature, imaginative comparison, sound and syntax, thought and theme; 2. the modes of literature, allusion, symbol, irony; 3. the forms of literature, biography, fiction, lyric poetry, drama, personal essay. The students read *Great Expectations*. Grammar material includes noun clauses, adjective clauses introduced by relative adverbs, reducing adverb clauses to simpler structures, correct use of perfect verbals, a new sentence pattern, and more about the effective use of parallelism and balance. Composition sections emphasize organization in descriptive paragraphs, letters, and class notes.

American Literature (1 unit) Examines literary works in connection with authors' lives and beliefs and with the literary period to which they belong: Colonial-Revolutionary, Romantic, Realistic-Naturalistic, and Modern. Some of the authors included are William Bradford, Edward Taylor, Jonathan

Edwards, Roger Williams, Benjamin Franklin, Washington Irving, Ralph Waldo Emerson, Nathaniel Hawthorne, Herman Melville, Bret Harte, Emily Dickinson, Henry James, Samuel Clemens, Fanny Crosby, James Weldon Johnson, James Thurber Eudora Welty, Thornton Wilder, Robert Frost, Carl Sandburg, T.S. Eliot, Jesse Stuart, and Bruce Catton. Critical attention is given to movements such as romanticism, Darwinism, and religious liberalism. New grammatical concepts include noun clauses introduced by words other than *that*, ways to reduce noun clauses, some new ways to reduce adverb clauses, correct formation of indirect quotation, sequence of subjects, and effective sentence endings. Writing lessons teach the steps of researching, planning, writing and revising the research paper. There is a clear emphasis on direct communication in the research process as well as in particularly descriptive, figurative language and personal experience essays.

British Literature (1 unit) This course studies the authors and works of 8 literary periods: Old English, Middle English, Tudor, Stuart, Neoclassical, Romantic, Victorian, and Modern. The course includes the reading and viewing of *Macbeth* Writing assignments include; literary criticism, informal essays, sympathy letters, persuasive essays, letters to the editor, resumes, humorous essays, and interviews.

Bible (1/4 unit) Each year students are required to take a Bible course. Course titles are; The Life of Christ, Portraits from the Old Testament, Lessons from the Early Church, Themes from the Old Testament, Directions for Early Christian, and Patterns for Christian Living.

Physical Education (1/2 unit) Our physical education program is run at the YMCA facility and other local gyms. All students receive 2 gym classes per week instructed by a certified YMCA PE teacher.

High School Electives:

CONSUMER MATH (1 unit)

This course begins the year with a review of general math and algebra and addresses such high-interest-level subjects as figuring income; filling out tax forms; banking and borrowing; buying and caring for a car; buying food and clothing; and renting, buying, and improving a home. Wise stewardship and prayer in decision making are emphasized through the presentation of practical daily-life situations.

BUSINESS MATH (1 unit)

This course introduces the student to the math needed to operate a business and to successfully manage family finances.

SPEECH

Introduction of public speaking from platform presence to persuasion. The course features special chapters on topic choice, research, organization, and communication in the workplace. Discussion of the communication process, audience analysis, message, and public speaking guidelines as well as speaking projects such as an introduction speech, interview, demonstration speech, informative, devotional and persuasive speech.

Spanish I and II (1 unit)

Students learn how to ask and answer question, how to give and follow directions, purchase items, etc. Second year grammatical structures, dialogue, conversation, and vocabulary are taught along with customs and people of the Hispanic world.

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FOOD SERVICE TECH PREP

This course is intended for students who are interested in a career in food service, but may also be used as an opportunity for school/community service. The goal is to give the student an opportunity to:

- learn and apply his knowledge of the duties, characteristics and responsibilities of being a quality caterer
- to serve their school, the student will spend two semesters under the supervision of an experienced, teacher.

Student Responsibilities

The student *will*:

1. Learn and participate in the four major aspects of food service: food preparation, meal planning, meal delivery, and hygiene.
 - A. Food preparation: proper handling of foods and utensils to prevent bacterial contamination and spoilage; proper temperatures for the preparation, serving and holding of a variety of foods; cooking and baking of a variety of foods.
 - B. Meal planning: preparing meals and menus, which supply balanced, nutritious meals meeting the five food groups.
 - C. Meal delivery: proper utensils to be used; portion control; presentation in an institutional setting and, if possible, in a more formal setting.
 - D. Hygiene: cleanliness regarding facilities, utensils, and foods.
2. Supplement supervisor's direct instructions with additional controlled practice.
3. Plan and follow a schedule which is convenient and beneficial for the supervisor, and the student *may* be asked to assist in any aspect of set-up,

preparation, serving, and clean-up of meals.

INTRODUCTION TO EDUCATION

This course is intended for students who are interested in a career in education. The goal is to give the student an opportunity to:

- learn and apply his knowledge of the duties, characteristics and responsibilities of being a good classroom teacher,
- serve their school, and earn 0.5 credit toward his graduation requirements.

The student will divide two semesters between two different classrooms settings under the supervision of experienced, certified teachers. The student will be required to participate a minimum of 100 minutes per week and will receive 0.5 elective credit toward his graduation requirements.

Student Responsibilities

The student *will*:

1. Solicit and obtain the cooperation of two supervising teachers, one per semester,
2. Keep a weekly journal of his activities and experiences, including the times and days of participation for the week signed by the supervising teacher.
3. Provide classroom and individual instruction: first by following the plans and the instructions of the supervising teacher, then, ultimately, by writing lesson plans and teaching their own lessons.
4. Supplement teacher's direct instructions with additional controlled practice.
5. Plan and follow a schedule, which is convenient and beneficial for the supervising teacher.

Write one essay, at least 3 pages in length at the end of *each* semester summarizing their experiences.

The student *may*:

1. Correct workbook pages
2. Run off copies or construct materials, bulletin boards, games or reinforcement.

3. Drill students in math, phonics, colors, etc., as modeled by the teacher.
4. Read to students.
5. Answer students' questions or help student's complete seat work assignments
6. Monitor independent activities to keep students on task, direct learning center, for example, teach and play assigned games.

Community Service

Our students are required to serve in the community or school for the service credit required for graduation.

Dual Enrollment

Academy students are eligible to take any of the 17 vocational and occupational courses with the Orleans/Niagara Board of Cooperative Educational Services.

Middle School Life Skills

Braille

Instrumental/Vocal Music

(1/4 unit) Students take weekly lessons in piano and/or bell chimes. Also available is the coral group that sings at school special events.

General Art (1/4 unit)

Use of variety of media and technique. Student's yearly work is displayed and entered into competition at Houghton College ACSI Northeastern Regional competition at Academic Day every May.