

# academic departments & course offerings



## Department of Bible

In their teaching, the Bible faculty emphasizes the supremacy of God, the centrality of Christ, and the authority of the Scriptures in all areas of life. All Bible courses are taught in a devotional manner, with emphasis given to the content of the various books. The purpose of this approach is to instill in the students a desire to study the Bible on their own for their own spiritual development. The Bible faculty enhances lessons through practical devotional studies, videos, educational games, group projects, class discussions, and guest speakers.

The spiritual emphasis of the Academy is not limited to the Bible curriculum. The Academy encourages the attendance and involvement of its students in their local churches and seeks through school-sponsored services and activities to assist both home and church in the spiritual growth of their young people. Students attend daily chapel services with the rest of the University family. Opportunities for outreach include monthly extensions to the Greenville Rescue Mission and Shepherd's Gate ministries. The Academy mission trip to New York City provides students with diverse evangelistic and service opportunities while ministering through local Fundamental churches in the metropolitan area. The annual Bible Conference, Vesper programs, and days of prayer all contribute to the spiritual growth of the student body. The goal is to make the Bible an integral part of each course and the life of each student.

Bible is required every semester a student is enrolled in Bob Jones Academy. Students earn one-fourth unit of credit for each semester of Bible taken.

### Bible 9 (Freshman Bible)

Includes a study on bibliology, which answers the questions, "Is the Bible true?" and "Why should we study the Bible?" Students also study the General Epistles and the book of Acts, tracing the spiritual development of the early church.

### Bible 10 (Sophomore Bible)

Includes studies in the Old Testament with an earnest attempt to focus on Christ in the Old Testament.

### Bible 11 (Junior Bible)

Includes a study of the Pauline Epistles and Christ in the Old Testament. It focuses on Christ and on the Christian's growth and change.

### Bible 12 (Senior Bible)

Includes a study of the life of Christ and the practical significance of living for God. This study is further developed through a study of *The Pursuit of God* by A. W. Tozer.

### SONS (One-semester course)

Includes practical instruction for male students interested in the preaching ministry; it also emphasizes the life and character of a godly man. Students will prepare and preach sermons and participate in ministry opportunities. *This elective Bible class is offered in lieu of second semester of Bible 11 but can also be taken while taking Bible 11 or Bible 12.*

## Department of Business Education

### Accounting

This course exposes students to basic accounting principles with the main focus on the fundamental guidelines to accurate bookkeeping. Some of the topics covered include the need for personal and business records, accountancy professions, basic accounting equations, principles of debits and credits, transaction analysis, accounts receivable and accounts payable, journals and journalizing, ledgers and posting, and financial statements. This course includes basic exposure to payroll, checking, taxes, and stocks (earnings and dividends). *This full-year course is offered to upperclassmen who are considering a business-related major or minor in college.*

### Keyboarding (One-semester course)

Introduces students to touch typing on computer keyboards with an emphasis on accuracy and speed. After memorizing the keyboard, students will learn how to create, format, edit, store, retrieve, and print business documents in *Microsoft Word*. Business documents include block and modified-block style letters, academic and business reports, resumes, and tables. *No prior typing or computer experience required.*

### Word Processing (One-semester course)

Offers an increased emphasis on keyboarding accuracy and speed. Hands-on applications provide advanced work with letters, memos, reports, and tables in *Microsoft Word*, including mail merges, memo templates, and basic desktop publishing. Students also study data entry, formatting, formulas, and bar and pie charts in *Microsoft Excel* and will be introduced to the basics of *PowerPoint*.

*Prerequisites: Keyboarding or 40 WPM and working knowledge of MS Word.*

## Department of Computer Science

In an age that is dependent more and more on computer technology, it is of increasing importance that young people have the skills to successfully function in the 21st century. The Academy's Computer Science Department offers well-rounded instruction in the skills, concepts, terminology, programs, technology, and applications associated with computers. Teachers incorporate Bible principles of Christian ethics in relation to the use of the computer as a tool for work, as an instrument of entertainment, and as a vehicle for communication through e-mail and the Internet.

### Computer Concepts

Offers a wide variety of in-depth learning experiences with an emphasis on concepts. Covers nomenclature and theory of operation of every major computer component. The Internet, e-mail, networks, digital cameras, and multimedia are detailed. Discusses business applications, including word processing, spreadsheets, presentation software, and the database. Students build a business database from scratch with an emphasis on database structures. Philosophy, ethics, application, theory, research, history, and appreciation are integral parts of this course. *No prior computer experience is necessary.*

### Computer Programming

Presents a challenging course for the upper-level math/science student. Includes structured programming routines, including sort, numeric and string manipulation, sequential and random-access data files, number crunching, graphics and animation, artificial intelligence, and multidimensional arrays. QuickBASIC and VisualBASIC provide the core languages, while Pascal, Assembly, and C-language routines are highlighted. *Prerequisite: Completion of Geometry with a B average or above is required.*

### Desktop Publishing

Explores principles of graphic design and their effective application in publication. Students become familiar with the computer as a design tool. Utilizes a layout program (*InDesign*) and drawing program (*Illustrator*). Students complete projects from brainstorming to a finished design idea, as a commercial designer or illustrator might present. Students are also exposed to the printing process and gain knowledge of how to prepare computer documents for commercial printing.

## Department of English

Bob Jones Academy offers four years of English study. Each level of English is composed of two semesters and seeks to review, introduce, and develop the students' knowledge of grammar, literature, and composition. In addition, all courses supplement these three core areas with vocabulary development, spelling instruction, and novel reading.



## English 9 (Freshman English)

Helps students review the parts of speech and identify types of phrases and clauses. The study of literature helps students identify, analyze, and evaluate the fundamentals of the short story, including conflict, character, theme, structure, point of view, and moral tone. Freshman-level composition builds toward the five-paragraph argumentative essay.

## English 10 (Sophomore English)

Offers a general review of freshman-level grammar concepts, highlighting units on parts of speech, sentence structure, serious errors, and punctuation. The literature selections emphasize an understanding of several genres and basic figures of speech and sound. Writing composition focuses on both formal and creative writing.

## English 11 (Junior English)

Provides an overview of American writers and literature from the Colonial period through the modern age. Literary analysis, creative writing, and a formal research paper are the foci of composition, with instruction in library resource skills and composition techniques. Basic grammar review and vocabulary study are integrated into the yearlong course of study.

## English 12 (Senior English)

Surveys British literature with an in-depth study in units of special importance and an introduction to British history and literary analysis. Special units in writing and grammar include note-taking skills, college-preparatory vocabulary building, writing style and grammar weaknesses, as well as logical thinking and persuasive argumentation.

## Journalism

Combines both direct instruction and hands-on experience via projects incorporating creativity, brainstorming, and teamwork. Students study the history and legal responsibilities of journalism and learn how to write feature stories, sports articles, and editorials. Lectures also include instruction on interviewing, reporting, editing, photography, design, and desktop publishing. *Not offered every year.*

## Reading Strategies

Offered second semester and is designed to assist students in developing basic reading strategies essential for success in high school and college. It emphasizes improvement of reading fluency, vocabulary development, and reading comprehension. Attention is also given to student growth and development in areas of personal reading habits, interests, and confidence.

## Successful Study Skills

Offered first semester and is designed to assist students in academic improvement. This course is directed toward improving the following skills: goal setting, note taking, organization, reading comprehension, writing, test taking, research, and other competencies that impact academic success. Class

time is devoted to study skills instruction along with implementation of skills as it relates to other courses a student is currently taking.

## **Department of Family and Consumer Sciences**

The Department of Family and Consumer Sciences is designed to provide the high school student with the knowledge and techniques of basic homemaking. Courses are designed to encourage the application of knowledge and skills in home life, in personal relationships, and as a profession. Courses combine academic study with a variety of practical laboratory experiences.

### **Advanced Foods**

Builds on the meal planning and cooking skills learned in Foods. Second semester has an emphasis on foreign cuisine.

*Prerequisite: Foods; not offered every year*

### **Basic Life Skills**

Focuses on a variety of topics and skills necessary for adulthood. These include financial practices and investing, basic car maintenance, basic sewing and clothing care, healthful living, basic etiquette instruction, community involvement, information on dealing with relationships in and outside of the home, making and maintaining a budget, and hosting a party. Additional supplies may be needed.

### **Foods**

Focuses on nutrition, meal planning, and the selection of foods, with an emphasis on preparation of basic food items and complete meals.

### **Interior Design**

Introduces students to the foundation necessary for interior design.

Topics include color, texture and light in a room; measuring and drawing a room (basic drafting); basics of design and its function in a home; floral design and holiday decorating. Projects include creating a color wheel, redesigning the student's bedroom, creating a floral centerpiece, and sewing a basic home project. This class is a project-oriented class with class-related field trips. Additional supplies may be needed.

## **Department of Fine Arts**

One of the founding purposes of Bob Jones Academy was to instill appreciation for and develop the talents of students in the areas of music, speech, and art as a means of developing a more effective witness and means of communicating the Gospel. In a day in which the fine arts have been turned into fleshly arts reflecting a sinful world, it is of vital importance that Christians hold forth "whatsoever things are true, whatsoever things are honest, whatsoever things are just, whatsoever things are pure,



whatsoever things are lovely, whatsoever things are of good report” and think on those things that are virtuous and worthy of praise (Phil. 4:8).

Within the Quadrangle, students may not only participate in musical and speech groups but also may have personal instruction in the fine arts. Teachers within the fine arts department seek to give academic instruction, develop God-given talents, and provide opportunities for students to use their skills to minister for the Lord.

## Art

*General Art is a yearlong course offered each year. The other art courses are one semester and will be offered on a rotation basis over a three-year period.*

### Ceramics (One-semester course)

Explores numerous hand-built methods of construction with clay.

Emphasizes the creation of forms through constructions, textures, glazing techniques, and the understanding of the firing process. Involves working with clay to create useful and sculptural art pieces, both hand-built and wheel-thrown. Stresses design and individual expression.

*Prerequisite: General Art (two semesters)*

### Design and Composition (One-semester course)

Explores the dynamics of the design elements in composition. Uses different media—painting, printmaking, drawing, and crafts—to creatively solve compositional problems. Emphasizes references in art history.

*Prerequisite: General Art (two semesters)*

### Drawing (One-semester course)

Explores drawing materials and techniques, including one-point perspective, gesture drawing, contour drawing, and rendering with pastels, pencils, and pen and ink. Students study the art of portraiture and create drawings of still life, interior architecture, and models. Through these they learn to achieve desired lighting effects, textures, and spatial illusions.

*Prerequisite: General Art (two semesters)*

### General Art

Designed to give the beginning student a foundation in basic art principles and media. Concentrates on two-dimensional color and design. Involves studio work in drawing, painting, printmaking, and other mixed media; develops skills in sketching, painting, printmaking, composition, perspective, and color. Gives three-dimensional experience in the areas of sculpture and ceramics. Explores art history and stresses the beauties of the Creator and artistic abilities supplied to man.

### Painting (One-semester course)

Explores watercolor and acrylic painting. Studies design composition, realism, and portraiture. In order to explore their own personal expression, students study the life and styles of several artists. In addition they

develop an informed appreciation for both representational and abstract works of art. Students will be able to recognize papers, color names, properties, and solvents of different painting mediums.

*Prerequisite: General Art (two semesters)*

### Printmaking (One-semester course)

Surveys basic printing techniques. Students will have studio experience in relief, planographic, stencil, and intaglio printing through a variety of projects. Printmaking traditionally involves the production of multiples or a series of identical works. Students will create original designs for their own edition of prints. Emphasizes understanding the history of printmaking.

*Prerequisite: General Art (two semesters)*

### Three-Dimensional Design (One-semester course)

Establishes a strong foundation in basic art principles and art appreciation while exploring the creation of art in three-dimensional space.

Students work on projects ranging from assemblage to kinetic art and work with additive and subtractive sculpture in a variety of media.

*Prerequisite: General Art (two semesters)*

### Yearbook Fundamentals (One-semester course)

Designed to make students skillful in writing, editing, designing, and organization in order to produce a yearbook of journalistic excellence. Students apply principles of yearbook production in the upcoming yearbook.

*Prerequisite: Sophomore, junior, or senior standing. Offered second semester, by invitation only.*

## Music

- Private voice and/or music instrument lessons are \$150 per semester for each type of lesson.
- Any student taking vocal or instrumental lessons will be required to hold membership in the Academy Orchestra, Band, or instrumental ensemble, or one of the choirs.
- Participation in a musical group presumes the purchase/rental of specified performance attire. Details about outfits and cost are presented in the registration materials.

### Band: Concert

Studies and performs high school-level band music. Includes progressive studies in wind and percussion instrument performance. Participation in this group is through audition or appointment by the conductor. Members participate in regional and state honor bands and festivals. Individual grades are determined by a directed activities point system and quizzes and exams over music performance and theory.



## Band: Symphonic Winds

Studies and performs advanced high school-level band music. Includes progressive studies in wind and percussion instrument performance.

Participation in this group is through audition or appointment by the conductor. This ensemble also serves as the Academy Pep Band for flag raisings, All-Star games, and other special occasions. Wind and percussion members of the Academy Orchestra are appointed from this band. Members participate in regional and state honor bands and festivals. Individual grades are determined by a directed activities point system and quizzes and exams over music performance and theory.

## Academy Chorale

Advanced-level choral group emphasizing advanced literature from all periods with some memorization. Introduces basic concepts of music theory.

*Advanced levels of choral technique, musicianship, music reading, and rehearsal and performance skills are required; some singing in a foreign language; lessons may be required, based on individual need. Open to students in grades 10–12, by audition only.*

## Concert Choir

Entry-level choral group emphasizing the basics of musicianship, choral tone, music reading, and rehearsal and performance department. Presents music from several style periods in both sacred and secular formats. *Open to any student without an audition.*

## Handbell Choir

Emphasizes development of ensemble skills and personal musicianship.

Students study a comprehensive range of repertoire, performing transcriptions of standard repertoire from the Baroque, Classic, Romantic, and Modern periods, intermediate and advanced original handbell compositions, and challenging arrangements of hymns and folk songs. Performances are held during and after school hours. Members are selected through an audition process.

*Prerequisite: competent music readers.*

## Orchestra

Provides students an opportunity to develop God-given instrumental musical talents. Seeks to foster a general appreciation of good music and enthusiasm for orchestral music. Students participate in rehearsals, chamber music groups, recitals, state contests and festivals, extension ministries, and several concerts throughout the year.

## Speech

### Debate I (One-semester course)

Develops research and analytical skills through extensive case writing and practice rounds in Lincoln-Douglas Debate format. Students write debate cases (both affirmative and negative sides) and are encouraged to participate

in the school's forensic team. Students also learn the process of mock trial presentation.

*No prerequisite; first semester only.*

### Debate II (One-semester course)

Surveys philosophy, starting with the Greeks and ending with modern philosophers Rand, Rawls, and Adler. Each student gives an oral presentation to the class on one of the philosophers. Students learn the skills of two-man cross-examination debate using the next high school year's policy topic or how to participate in legislative debate.

*Prerequisite: Debate I; offered second semester only.*

### Drama (One-semester course)

Teaches the basic principles of acting and theater. Students are introduced to every aspect of a production. Students will demonstrate a mastery of basic memorized duo scenes and some improvisational work. *For seniors only.*

*Prerequisite: One-half unit in another speech course, second semester only.*

### Introduction to Speech

Introduces the field of speech through a laboratory setting that seeks to break down barriers of stage fright and nervousness. In this activity-oriented class, students learn the elements of pantomime, basic interpretation, children's storytelling, reader's theatre, and acting. Some work is also done in the area of communication. Second-semester students learn the elements of public speaking. Types of speeches given include personal experience, demonstration, and tribute. Some work is also done in the area of radio and television, poetry, communication, and Shakespeare.

*For grades 9-10.*

### Performing Arts (One-semester course)

Teaches basic radio and TV skills. Students may produce their own one-minute commercials utilizing audiovisual equipment. Students tour WBJU and TV Productions and utilize their equipment in structured demonstrations. Students learn in-depth the skills of interpretation, the dramatic "V," characterization, and how to present interpretative cuttings. A missionary story, impromptu duo acting scenes, a humorous skit, and duo interpretation are among the performance projects.

*Prerequisite: Introduction to Speech is recommended; offered first semester only; for grades 10-12.*

### Public Speaking (One-semester course)

A college-prep speech course teaching students to research, write, and deliver their own speeches—informative, persuasive, devotional, and sales. Students are videotaped and critiqued by their peers on the persuasive speech.

*Prerequisite: Introduction to Speech is recommended; for grades 10-12.*



## Department of Foreign Language

The teaching of foreign languages is designed to create a lasting interest in language as a vehicle of speech and to stimulate the student in his interest in other cultures and languages. Bob Jones Academy offers first- and second-year courses in French, German, Spanish, and Latin. Two years of the same foreign language are strongly recommended for students going to college.

### French I

Teaches basic vocabulary and grammar in a functional context; students learn practical content, such as greetings, asking and answering simple questions to meet survival needs, ordering food, traveling, and relating the Gospel in a simple manner. Class time is divided among grammatical explanation, drill, and application of concepts to simulate real-life situations. *Offered on BJ LINC.*

### French II

Expands on the foundation laid in French I while strengthening the comprehension of the spoken and written language. The text includes a selection of French songs, with a Christian emphasis in each chapter. The oral and reading comprehension sections expose the student to French literature, as well as to the oral dialects of various areas of French-speaking lands throughout the world. *Offered on BJ LINC.*

### German I

Teaches basic German vocabulary (people, family, classroom, house, animals), grammar (subject-verb agreement, article cases, prepositions, word order), culture, and geography, with an emphasis on independently building sentences in German. Students will be able to present the plan of salvation by using a Gospel tract and verses memorized in class.

### German II

Focuses on intermediate grammar (tenses, dependent clauses, adjective declension), vocabulary (drawn from reading selections about history and literature), culture, and geography, with an emphasis on understanding idioms of German language and culture. Students will be able to more clearly present the Gospel by sharing their personal salvation testimony in written and spoken form.

### Latin I

Teaches the basic vocabulary and grammatical elements of this classical language. Places an emphasis on word parts. Students will be introduced to Roman history and literature.

### Latin II

Builds on vocabulary and grammatical elements taught in Latin I. Places an emphasis on translation skills. Introduces the subjunctive mood and case uses.

## Spanish I

Introduces the language and culture of Spanish-speaking countries. An emphasis is placed on oral and written communication as well as listening comprehension. Students focus on present tense, basic vocabulary, and sentence structure. Students also learn Bible verses, church vocabulary, and the basics of witnessing and praying in Spanish. The learning process is enhanced and reinforced through the use of tapes, workbooks, and games. Each unit concludes with some type of practical communicative activity. Testing is both oral and written and includes reading comprehension.  
(*Native Spanish speakers may not take Spanish I.*)

## Spanish II

Begins with a thorough review of Spanish I with special attention to practical, original communication. Spanish II then continues with an in-depth study of other tenses, moods, and vocabulary with a strong emphasis on written and oral communication as well as oral and reading comprehension. A greater spiritual emphasis is added as students increase their ability to witness through a study of Catholicism and Spanish history. Special emphasis is placed on how to effectively use God's Word in addressing false doctrine in the Catholic Church.

## Spanish III

Begins with a review of the major tenses studied in Spanish I and II and continues with a study of the different Spanish moods. With each tense, students are engaged in many communicative activities which will broaden their communication skills in both daily conversation and practical Christian service such as witnessing, giving devotionals, and telling Bible stories. In addition, students also learn more about the culture and mindset of the Spanish people through a basic survey of Spanish literature, history, and art.

## Department of Industrial Arts

### Driver Education (One-semester course)

Provides 30 hours of classroom instruction, six hours of behind-the-wheel instruction, and 12 hours of observation time. The course seeks to foster proper attitudes, instill traits of Christian character, sharpen ability in decision making, and develop skills that apply to satisfactory driving and traffic citizenship with everyday driving performance in the highway transportation system. *\$100 semester fee.*

### Shop I, II, III

Shop class is a hands-on course designed to develop woodworking skills and promote the safe operation of woodworking machinery. Beginners build a required project using a variety of the major woodworking machines. Advanced students, with the approval of the instructor, may choose projects requiring advanced techniques such as milling, shaping, turning, and



molding. Required purchases include approved safety glasses and project materials. Materials may be purchased from local home-improvement warehouses or from the shop. (*Shop purchases are secured through a “punch card” obtained from the School of Applied Studies office.*)

## Department of Mathematics

The Department of Mathematics seeks to foster an awareness of and appreciation for the importance of mathematics as it develops life skills and career preparation in our students. The curriculum is designed to build mathematical skills as students progress from course to course. Students are introduced to techniques of inductive and deductive reasoning and methods of applying these skills. Emphasis is placed on developing a problem-solving attitude in students. The textbooks include extra sections to present the history of mathematics, uses of mathematics, and mathematical brainteasers. The math faculty takes every opportunity to present parallels between God’s laws and the laws of mathematics and logic.

The mathematics department has an honors program in order to better challenge and develop students who excel in math. Students are selected for the honors program based on a combination of teacher recommendation, student ability, math grades, and achievement test scores. The pace in the honors classes is accelerated because there is less drill and repetition. Classroom lectures are expanded to provide a more in-depth theoretical development of the material. The goal of these classes is a more challenging approach without a heavier homework load. Student report cards and transcripts will differentiate honors classes from the regular classes. The honors classes along with the NCP classes make it possible for each of our students to progress at an optimum level based on individual ability and achievement.

*Students enrolled in math classes will need a specific calculator to fulfill class homework and lab assignments. The calculator is a Texas Instruments TI-30X IIS and retails for about \$15. It may be purchased prior to the start of school at a variety of retail stores in the community.*

### Advanced Math

#### Pre-Calculus (First Semester)

Study of algebraic (polynomial, rational, radical) and transcendental (trigonometric, exponential, logarithmic) functions including an introduction to conics, polar coordinates, complex numbers, and vectors.

#### Intro to Calculus (Second Semester)

Study of matrix algebra, statistics, sequences, and limits, leading to discussion of the two main concepts of calculus (derivatives and integrals).

## Algebra I

Extends the student's understanding of real numbers and basic math operations. Explains principles and operations of algebra while solving many different types of equations. Places an emphasis on strengthening problem-solving and reasoning skills.

## Algebra I—NCP

Reviews basic computations and introduces algebraic concepts. The content is similar to that listed for Algebra I, but the pace is slower. Utilizes manipulatives for a more concrete understanding of concepts.

## Algebra I—Honors

Introduces basic algebraic concepts, including real number subsets and operations, polynomial operations and factoring, solving equations (linear, radical, rational, and quadratic), solving word problems, and graphing lines, functions, and inequalities. Includes utilization of TI-83 graphing calculators.

## Algebra II

Reviews elementary algebra with an emphasis on solving equations and graphing functions. Introduces complex numbers, conic sections, and trigonometry.

*Prerequisite: Algebra I*

## Algebra II—Honors

A second-year study in algebra, including solving and graphing of linear and quadratic equations, inequalities, and systems. Covers operations with radicals, imaginary numbers, polynomials, functions, and rational expressions. Introduces trigonometry, logarithms, matrices, and probability. Utilizes TI-83 graphing calculators.

*Prerequisite: Algebra I*

## Consumer Math

Emphasizes practical mathematical application in everyday situations such as paying taxes, maintaining a checkbook, buying a car, buying a house, obtaining credit, avoiding debt, and purchasing insurance. Seeks to show all these things in the light of God's Word.

## Geometry

Teaches an appreciation of the attributes of our great God and teaches logical thinking skills using the medium of Euclidean plane and solid geometry. Topics include proofs, logic, area, volume, constructions, trigonometry, and transformations.

## Geometry—NCP

Teaches an appreciation of the attributes of our great God and teaches logical thinking skills using the medium of Euclidean plane and solid geometry. Topics include logic, area, volume, constructions, trigonometry,



and transformations. The proofs covered concentrate on the logical reasons as to why a proof works. This class provides more individualized help, planned reviews, and a modified pace to help students who struggle with mathematics to reach their full potential.

### Geometry—Honors

Teaches an appreciation of the attributes of our great God and teaches logical thinking skills using the medium of Euclidean plane and solid geometry. Topics include proofs, logic, area, volume, constructions, trigonometry, and transformations. This class moves at a quicker pace and includes the introduction of more complex topics through varied presentations and media. The practice problems are selectively chosen and tailored for mathematically advanced students.

## Department of Natural Science

The Department of Natural Science strives to develop in the student a Christian philosophy of science in which Scripture is recognized as the inerrant, infallible Word of God and the authority on all issues addressed. Natural science is the product of human observation and interpretation of the physical creation. When properly interpreted, natural science results in an appreciation of the power, glory, and majesty of the Creator (Psalm 19:1).

Bob Jones Academy's science courses encourage students to think analytically using the scientific method. At least 20 percent of instructional time is devoted to laboratory activities or demonstrations that are carried out in fully equipped classroom laboratories, where instruction in proper laboratory techniques and safety procedures is stressed. Students are encouraged to be curious about physical phenomena, to formulate scientific questions, form and test hypotheses, record and analyze data, and form conclusions based on data obtained.

Laboratory experiences and instruction help students to become aware of the limitations of science, such as (1) science deals with only the physical universe; (2) scientific ideas and theories are verified by direct or indirect observations; (3) measurements are never exact; (4) conclusions are often based on a limited number of observations; and (5) human error and bias affect results. Scientific ideas will thus be taught as generally incomplete and subject to continual revision. The Bible, on the other hand, offers immutable instruction and wisdom.

Scientific literacy—the knowledge of scientific ideas needed to function and make appropriate decisions in our society—is stressed. Instruction is also given in areas in which scientific knowledge is incorrectly applied and on topics of relevant moral and ethical issues. Various humanistic theories

are presented regarding scientific ideas, but biblical positions on these matters are presented as authoritative. The difference between radical environmentalism and scientific ecology, theories of the origin of the universe and biblical creationism, and the pantheistic view of life and the scriptural order of created beings are among the topics that are presented.

*Students enrolled in Physical Science, Chemistry, and Physics classes will need a specific calculator to fulfill class homework and lab assignments. The calculator is a Texas Instruments TI-30X IIS and retails for about \$15. It may be purchased prior to the start of school at a variety of retail stores in the community.*

To receive a standard high school diploma, students must complete three units of science, one of which must be biological (Biology I) and one of which must be from the physical sciences (Physical Science or Chemistry). The tracks which students may pursue in the Academy's science department are:

- **Normal Track:** Students pursuing the normal course should take Physical Science (9th), Biology I (10th), and Chemistry (11th) and are encouraged to elect Physics or Biology II (when offered) in their senior year.
- **Accelerated Science Track:** Students who plan future study in some area of science should plan to take Biology I (9th) and Chemistry (10th), with Physics and/or Biology II (when offered) in their junior and senior years. Academic skills will be necessary to enter courses an academic year earlier than the course is designed for. Those seeking to enter the Accelerated Science Track must secure permission from their parents and the guidance counselor to enroll in these science classes.

### Biology I

Introduces the general biological topics, such as a definition of life, biochemistry, cell structure and function, biotechnology, genetics, and creation/evolution. The organisms in the living kingdoms are surveyed. Ecological principles and their relation to a Christian position are discussed. Presents a study of basic human anatomy and physiology and scriptural topics dealing with the human body, mind, and soul.

### Biology—NCP

Presents biological and scriptural topics needed for a Christian to make wise, spiritual science-related life decisions. The content is similar to that listed for Biology I, but in lesser detail. *Not offered every year.*

### Biology II

Presents an in-depth study of cellular organization and function, biotechnology, and advanced genetics. Students choose various ecological topics on which to do research and experimentation. Human physiology is also dealt with. These topics are also designed to further the student's understanding



of ethical, moral, and scriptural positions a Christian should take in light of today's technological advancements.

*Prerequisites: Biology I, Chemistry; not offered every year.*

## Chemistry

Introduces the fundamental characteristics of matter as well as an overview of related fields. The foundational ideas behind atomic structure and bonding, stoichiometry, nomenclature, kinetic theory, solutions, equilibrium, thermochemistry, acid-based chemistry, organic and biochemistry, and nuclear chemistry are presented. The course stresses applications of chemistry and identifies the marvels of design in creation.

*Biology I is a recommended prerequisite. It is preferable for Chemistry students to be concurrently enrolled in Algebra II.*

## Physical Science

Covers the definition and measurement of matter, introductory chemistry, and basic physics, along with atomic theory, the periodic table, acids and bases, motion, energy, and electronics. Science is taught as an observational and experimental subject, in which students perform experiments and must analyze data mathematically and logically. (Note: A student who has already taken Chemistry cannot take Physical Science.)

## Physical Science—NCP

Presents science and scriptural topics needed for a Christian to make wise, spiritual, science-related decisions. The content is similar to that listed for Physical Science but with less emphasis on math and analysis.

*Not offered every year.*

## Physics

Presents in-depth investigations into linear, circular, and rotational motion, kinetic theory, temperature and thermodynamics, fluids, wave theory, sound, magnetism and electromagnetism, static and current electricity, basic electronics, and optics. Some areas of modern physics, including quantum theory, relativity, and nuclear physics, are introduced. The course is highly mathematical and analytical, but topics are also presented conceptually through observation of physical phenomena.

Students learn through observing demonstrations, performing laboratory activities, and through self-directed applications. The course will seek to foster an appreciation for the way God reveals much about His nature in the realm of physics.

*Prerequisites: Chemistry, Algebra I, and Geometry. Students may take Algebra II concurrently with Physics.*

## Department of Physical Education

Physical education plays an important role in the total educational program as it seeks to develop students physically, mentally, emotionally, and socially. PE classes are designed as activity classes that seek to develop physical fitness, motor skills, a knowledge and appreciation of different sports, and a Christian philosophy of athletic activity. Students have opportunity to implement these skills through the intramural sports program of the Academy. One unit of PE credit is needed for graduation. Students will earn one-fourth unit each semester during their freshman and sophomore years.

### PE 9-10 (Boys)

Teaches fundamental skills, team play, conditioning, strategy, history, and terminology and other phases of various individual and team sports. Places an emphasis upon lifetime activities and principles of personal health and fitness.

### PE 9-10 (Girls)

Seeks to develop basic knowledge and skills of the scheduled games and activities as well as maintain a high level of physical fitness. Emphasis is placed on lifetime activities and physical fitness.

## Department of Social Studies

The Department of Social Studies exists to proclaim the goodness of God in His dealings with men from the beginning of time to the present. Through the study of history, geography, government, and economics, the courses seek to equip today's youth to fulfill their responsibilities to their God and to their fellow man in their cities, nations, and the world.

One unit of U.S. History, a half unit of Economics, and a half unit of Government are required. Either World Geography or World History may be taken as the third required unit in Social Studies.

### American Government (one-half unit; meets every other day all year)

Introduces students to general biblical principles of governmental authority before detailing the philosophy, purpose, and practice of the United States Constitution. Also explores courtroom law, federal law, and American politics. Places a strong emphasis on current events. Includes a mock congress for the purpose of showing young people how a Christian can serve God in government today.

*Prerequisite: United States History*

### Economics (one-half unit; meets every other day all year)

Introduces students to economic principles, such as capitalism, free enterprise, and investing. Seeks to develop proper stewardship of all God has given by emphasizing the trap of materialism and the need for wise choices throughout life. Discusses current events to illustrate the consequences of making wrong or right decisions.



## United States History

Presents a comprehensive survey of United States history from pre-Colonial times to the present, emphasizing God's control over the foundation of this nation. Focuses on major themes, such as the wars, movements, and ideas that have shaped American life over the past three centuries. Uses current events to illustrate the influence of the United States on the world today.

## World Geography

Introduces students to key geographical skills. Emphasizes a knowledge of people and places in the world. Discusses cultures and religions for the purpose of giving young people a burden for missions. Uses current events to make the curriculum relevant for the present day.

## World History

Presents a comprehensive survey of world history from Creation to the present, emphasizing God's providence in His dealings with men. History is described as a gift from God to augment the record left in the Bible and given for the purpose of spreading His fame to all people. Uses current events to connect present happenings with their historical foundation.