



# LEGACY

CHRISTIAN ACADEMY

## Course Catalog

2018-2019

## Table of Contents

BIBLE .....	3
COMPUTER .....	5
FINE ARTS.....	6
FOREIGN LANGUAGE .....	9
ENGLISH/ LANGUAGE ARTS .....	11
MATHEMATICS.....	13
PHYSICAL EDUCATION/HEALTH .....	15
PRACTICAL ARTS.....	17
SCIENCE.....	18
SOCIAL STUDIES.....	20
TECHNOLOGY--APPLIED.....	22
OTHER.....	23
ESM (Enrichment, Service, Ministry) WEEK.....	24

This catalog contains courses that may be offered at Legacy Christian Academy. Not all courses are offered each year. Some courses are specifically on an alternating basis and are noted as being offered during odd school years (ex. 2017-18) or even school years (ex. 2018-19)

## **BIBLE**

Acquiring an intimate knowledge of the Scriptures is critical to developing a biblical worldview. The Bible Department is dedicated to helping students obtain this knowledge so that they may apply it to all areas of learning during their lifetime. The Bible Department curriculum is designed not only to give the student a working Bible literacy, but also to help the student develop critical thinking skills. Included in the Bible curriculum are Bible stories and surveys, Bible doctrine, methods of Bible study, developing a biblical worldview, and practical application such as family living. In order to enhance their knowledge of the Bible, students also memorize selected portions of Scripture.

### **GRADES 9 & 10** (Course offering alternates as noted)

#### **Old Testament Survey: (odd school years)**

**1 Credit**

Students in this year-long course begin by learning how to study the Bible on their own. Then they apply those new Bible study skills in a survey of books of the Old Testament.

#### **New Testament Survey: (even school years)**

**½ Credit**

Students in this one semester course begin by learning how to study the Bible on their own. Then they apply those new Bible study skills in a survey of books of the New Testament.

#### **Living by Design: (even school years)**

**½ Credit**

This single semester course is paired with New Testament Survey. It focuses on preparation for life after high school with a study and application of Biblical principles for successful living.

### **GRADES 11 & 12** (Course offering alternates as noted)

#### **Christian Apologetics & Biblical Worldview: (even school years)**

**½ Credit**

This one-semester Bible course introduces the student to Christian apologetics by examining two complimentary aspects of a defense of the Christian faith:

1. Christian apologetic approaches, strategies, and arguments – ***knowing how to defend*** the Christian faith in the face of criticism.
2. A Christ-centered biblical worldview – ***knowing what to proclaim*** that Christianity and the Church believes and teaches from the Bible in the face of error.

The course's chief goal is to glorify God through teaching his truth, communing with him, growing in faith, and being further conformed to the image of his Son as a result.

**Western Worldviews: (Even school years)****½ Credit**

This one-semester Bible course:

1. Examines the current major Western worldviews and compares and contrasts them with biblical Christianity.
2. Provides a brief overview of the history of Western thought leading up to these current Western worldviews.

This course is designed to equip students with knowledge to help them speak more intelligently and accurately about competing worldviews to biblical Christianity and to confront them persuasively when proclaiming the gospel. The course's chief goal is to glorify God through teaching his truth, communing with him, growing in faith, and being further conformed to the image of his Son as a result.

**Comparative Religions: (odd school years)****½ Credit**

This one semester Bible course is a survey and analysis of various religions and cults contrasting them with authentic Christianity and developing apologetic answers to common questions and objections.

**Marriage & Family: (odd school years)****½ Credit**

This one semester Bible course introduces the student to the biblical understanding of marriage and outlines the basic components that are necessary to a flourishing marriage. The course also includes brief examination of parenting and stewardship issues.

**ELL Bible:****1 Credit**

This full year course is specifically for international students who are designated as English Language Learners. The class is designed to introduce students that have very limited Bible exposure to Biblical concepts, and to improve their English through a study of the Bible.

## **COMPUTER**

We live in a world that is technically changing at an accelerated rate, coupled with an unstable humanistic value system that rejects God. Students are challenged in the Computer Department to display godly wisdom in the use and stewardship of this technology. They are expected to show the character qualities of diligence, punctuality, respect for authority, and cooperation. God's orderliness and the importance of using God's gift of language to glorify God are principles the teachers will reinforce in all computer classes.

### **Computer Applications 1:**

**½ Credit**

This one semester, project-based course gives a full understanding of the basic Microsoft Office Suite (Word, Excel, PowerPoint). Students are challenged to practice godly character qualities like thoroughness, diligence, responsibility, and perseverance. God's orderliness and the importance of using God's gift of language to glorify Himself are principles that will be reinforced in this class.

### **Computer Applications 2:**

**½ Credit**

(Prerequisite: Computer Applications 1)

This one semester, project-based course gives a full understanding of the advanced capabilities of the basic Microsoft Office Suite (Word, Excel, PowerPoint, Publisher). Students are challenged to practice godly character qualities like thoroughness, diligence, responsibility, and perseverance. God's orderliness and the importance of using God's gift of language to glorify Himself are principles that will be reinforced in this class.

### **Photo/Video Editing (Honors):**

**1 Credit**

(Prerequisite: sophomore or higher and permission of the Instructor.)

This year long project-based course will explore God's gift of creativity and art via the manipulation and creation of images. Students will learn professional photo and video editing skills in order to repair images, combine and adjust images, and create images from scratch. Biblical themes will be strongly emphasized throughout the course projects.

## **FINE ARTS**

The Fine Arts Department endeavors to convey to the student that creativity is a gift from God that can be expressed both visually and orally. Through such expression, God can be worshipped and glorified. We further strive to develop in the fine arts students an awareness of the beauty in creation and the man-made environment.

### **Art 1:**

**1 Credit**

An orientation to drawing, painting, printmaking, sculpture, and ceramics, this is primarily a course in design, concentrating on the theories and use of line, form, color, space, texture, and composition. Two-dimensional work is done in media that includes charcoal, pen and ink, watercolor, linoleum block printing, clay, plaster, and experimental media.

### **Art 2:**

**1 Credit**

(Prerequisite: an 'A' in Art 1 and/or permission of Instructor)

A drawing and painting course with special attention given to the analysis of form and perspective, and the development of fundamental skills based on sound drawing and painting principles. A variety of drawing and painting media will be explored. Students discover how a Christian perspective affects their drawings and paintings.

### **Art 3 (Honors):**

**1 Credit**

(Prerequisite: 'A' in Art 2 or permission of Instructor)

A course designed for the upper level art student who wishes to begin developing a portfolio, fine tune and stretch his skills in a variety of media and develop the use of art as a form of communication. This course will consist of advanced media techniques, a deeper look into art history (involving research by the student), and the beginnings of independent works of art. The student will also learn how an artist works (from concept to exhibit) and will develop the concept of using art for God's glory and honor.

### **Art 4 (Honors):**

**1 Credit**

(Prerequisite: 'A' in Art 3 or permission of Instructor)

This one-year course is designed for the art student who is interested in preparing a portfolio of work for entrance to an art school or university and who wishes to pursue a career in art. Independent study in a variety of media will be completed to balance out the student's portfolio and high school art experience. Students will recognize they should be stewards of God's gift of creativity.

**Digital photography:****½ Credit**

(Prerequisite: digital camera)

This course is a traditional approach to photography with an emphasis on using the digital format camera. The students will experience the technical differences between the 35mm single lens reflex camera and the digital camera by processing film/paper in the photo lab and then transitioning to digital cameras and photo processing software. Emphasis will be on creating photo compositions that demonstrate good layout and design principles. Lab activity will consist of experiences in black and white, color digital processing, cropping and resizing prints, retouching, mounting prints, inserting prints into other documents, and composing a photo essay. Students will be challenged to develop creativity, diligence, patience, and a cooperative spirit while working in lab activities.

**Yearbook:****1 Credit**

(Prerequisite: permission of Instructor)

This course is a basic orientation of yearbook writing, layout, and design. Students will produce the current year's edition of the yearbook, and will learn journalistic skills of interviewing, reporting, advertising budget, layout and design.

**Concert Band:****1 Credit**

(Prerequisite: permission of Instructor)

This course is open to any 9-12<sup>th</sup> grade student who possesses intermediate level proficiency on a band instrument. Band is dedicated to developing each student's musical talents for use in God's kingdom. The repertoire consists of both sacred and secular music. Commitment to out-of-school concerts is needed.

**Concert Strings:****1 Credit**

(Prerequisite: permission of Instructor)

This course is open to any 9-12<sup>th</sup> grade student who possesses intermediate level proficiency on a strings instrument. Strings class is dedicated to developing each student's musical talents for use in God's kingdom. The repertoire consists of both sacred and secular music. Commitment to out-of-school concerts is needed.

**Concert Choir:****1 Credit**

(Prerequisite: permission of Instructor)

The emphasis in Concert Choir is on: 1) development of good vocal techniques such as intonation, tone, blend, diction, and breath control, 2) introduction of various styles of music and the special requirements involved in each, and 3) introduction of various musical styles from different periods of history. Concerts are scheduled to test students over music memorization and other performance related topics, as well as the chance to express the beauty of the music and their praise to God. This course will involve works in English and foreign languages.

**Group Piano:****1 Credit**

In a classroom lesson format, students will learn all areas of musicianship related to the piano. The goal of the class will be to increase the student's facility at the keyboard. The class will include technique, theory, sight-reading, improvisation, practice and performance in various musical styles.



## **FOREIGN LANGUAGE**

Christians have a biblical mandate to share the Gospel with people of all nations (Matt. 28:19-20). Learning a foreign language is a step in fulfilling this mandate. While learning a language, the student will be encouraged to share his/her testimony in that language and to consider missions as a vocation. The Foreign Language Department also strives to expand student interest in people groups of other cultures. In so doing, we hope to not only discourage prejudice, but to encourage cultural acceptance from a biblical perspective.

### **Spanish 1:**

**1 credit**

(Prerequisite: 'B' average in English 8 or 'C' average in English 9, 10, 11)

Spanish 1 is a one-year course that teaches the basic knowledge of vocabulary, forms, structures, and concepts of the Spanish language. It also develops the skill to use that knowledge in speech, understanding, reading and writing. Biblical lessons and their spiritual applications are an integral part of the vocabulary and grammar curriculum.

### **Spanish 2:**

**1 credit**

(Prerequisite: 'C' average in Spanish 1)

Spanish 2 continues to teach the development of listening, speaking, reading and writing skills. More exact pronunciation is stressed and more advanced writing skills are developed leading to a more spontaneous, yet, conscious control of the language. Language design and its integration with Hispanic culture are studied in more depth. Bible memory verses are included in every chapter. Daily conversation and classroom dramas provide for spiritual application.

### **Spanish 3 (honors):**

**1 credit**

(Prerequisite: 'C' average in Spanish 2)

Spanish 3 will complete the study of the basic grammar system of the language. Emphasis is placed on fluency and facility in reading and expression skills through structure drills, dialogue, discussion and advanced writing skills accompanied by reading of short stories. A "highlight" study of Spanish history is incorporated on this level.

### **Spanish 4 (honors):**

**1 credit**

(Prerequisite: 'C' average in Spanish 3)

In Spanish 4, the student will deepen and reinforce material learned in Spanish 1, 2, and 3. There is more reading as well as grammar review. The students will be asked to use the Spanish language more and also to use it more creatively. This course will also deepen the student's appreciation for Hispanic countries and culture from a missionary perspective. A Christian worldview is taught and our responsibility and privilege to spread the gospel to the Hispanic world is emphasized. Further emphasis is placed upon

fluency and facility in reading and expression skills through structure, drill, dialogue, discussion, and advanced writing skills. “Highlight” studies of Hispanic art and history is incorporated on this level. Biblical approach and comparison is studied in literary theme as compared to dominant Hispanic philosophies, as well as in expression of the student in writing and speaking.

## **ENGLISH/ LANGUAGE ARTS**

Since God is a communicating God, courses in the Language Arts Department will strive to help students imitate God through an understanding of the importance of clear communication. All Language Arts courses emphasize the integration of reading, writing, speaking, and listening with the purpose of glorifying God.

### **GRADES 9 & 10 (Course offering alternates as noted)**

#### **Intro to Literature: (even school years)**

**1 Credit**

This is a year-long course for freshmen/sophomores (rotating even years 2014-15) emphasizing the integration of reading, writing, speaking and listening. These elements are studied in the context of a survey of literature and the development of articulation skills. Students will employ journaling, spelling/vocabulary development, and book reports as they develop a biblical view of the art of language.

#### **Literature and Composition: (odd school years)**

**1 Credit**

Reading, writing, speaking, and listening are integrated into units, and coupled with both a literary theme and a writing theme throughout this year-long freshmen/sophomore (rotating odd years 2015-16). Literary genres will be explored and a variety of writing opportunities will be given and evaluated. Students will employ journaling, spelling/vocabulary development, book reports, and research as they develop a biblical view of language.

### **GRADES 11 & 12 (Course offering alternates as noted)**

#### **American Literature and Composition: (even School Years)**

**1 Credit**

This is a year-long course for juniors/seniors (rotating even years 2014-15) in which God's gift of communication is studied in the context of the values expressed in American literature from the days of the founding fathers to the present age. Students will employ journaling, spelling/vocabulary development, book reports, and research as they develop a biblical view of language.

#### **British Literature and Composition: (odd School Years)**

**1 Credit**

This is a year-long course for juniors/seniors (rotating odd years 2015-16) where reading, writing, speaking, and listening are studied in the context of the values expressed in British literature from the Anglo-Saxon authors to the present age. Students will employ journaling, spelling/vocabulary development, book reports, and research as they develop a biblical view of the art of language. Students will explore literary criticism that uses a biblical filter system to evaluate truth.

#### **Fundamentals of Language Arts:**

**1 Credit**

This is a modified course for students who need additional help and have been assigned by the Special Education Department.

## ENGLISH ELECTIVES

### **C.S. Lewis (Honors):**

**½ Credit**

(Prerequisite: permission of Instructor)

This class will examine the life and writing of C.S. Lewis. This class will read from, discuss and write about Lewis' *Space Trilogy*, *The Chronicles of Narnia*, *Screwtape Letters*, his classic *Mere Christianity*, and his spiritual autobiography, *Surprised by Joy*.

### **Journalism (Honors):**

**1 Credit**

(Prerequisite: 'A' average in English 9 or 'B' average in English 10 or 11 and permission of journalism instructor)

This class will provide an overview the broad categories in the field of journalism. Ethics in journalism will be taught by examining journalism for quality and integrity. Journalism writing will be examined as to its distinctives from popular and scholarly writing. Techniques in interviewing, proof-reading, editing, and quality control will be emphasized. Careers in journalism will be explored.

### **Shakespeare (Honors):**

**½ Credit**

(Prerequisite: permission of Instructor)

This course focuses on four major categories of Shakespeare's writing: sonnets, comedies, tragedies, and histories. The first category explores the development of Elizabethan sonnets composed by William Shakespeare. The last three categories look at the design of comedies, tragedies, and histories with emphasis on seeing how Shakespeare used the tools of the writing trade to communicate effectively. Students electing this course should be strong readers, capable of reading King James era English.

### **Advanced Literature (Honors):**

**½ Credit**

A semester course designed to give students an opportunity to apply their knowledge of Christian worldview and literary criticism to British Literature, American Literature, or World Literature in alternating years, in a guided setting.

### **Speech:**

**½ Credit**

(Prerequisite: must be a junior or senior)

Speech class is devised to give students the opportunity to learn communication theory and develop communication skills, which they will apply in both informal and formal speaking situations.

## **MATHEMATICS**

Recognizing that God, the Creator of the universe, is the author of all true mathematical laws, all math courses focus on the characteristics of God inherent in the math system including, but not limited to, orderliness, infiniteness, reliability, and immutability. In addition, the biblical principle of “sowing and reaping” applies to mathematical study; therefore, these courses will encourage the development of positive character qualities such as resourcefulness, orderliness, discernment, wisdom, and creativity. In order to develop strong STEM skills in today’s technology driven world, the graphing calculator will be one of the many tools used to introduce and explore mathematical concepts. Students will be required to purchase and master the Texas Instrument graphing calculator TI-84 Plus C.

### **Algebra I**

**1 Credit**

This course covers basic concepts and terminology of algebra beginning with expressions and linear functions. Students are required to master graphing and solving linear equations and inequalities while being introduced to exponential functions, quadratic functions, polynomials and statistics. Problem solving skills are developed through real-world modeling while investigation will occur through graphing technology.

### **Geometry**

**1 Credit**

Prerequisite: C- average or higher in Algebra 1

This course is designed to develop proficiency with logic and deductive reasoning through applying Euclidean theorems and postulates to geometry shapes. Algebra skills are utilized to solve geometry application problems.

### **Algebra 2**

**1 Credit**

Prerequisite: C- average or higher in Geometry

This course delves deeper into the concepts introduced in Algebra I. Students will be introduced to the twelve basic functions, the complex number system, rational functions, exponential functions, logarithmic functions and conic sections. Students are required to master factoring polynomials and solving quadratic functions. Graphing technology will be introduced throughout the course

### **Advanced Math Concepts**

**1 Credit**

Prerequisite: C- average or higher in Algebra 2

This course reviews skills acquired in the algebra and geometry series while introducing students to pre-calculus including trigonometry. Graphing technology will be integrated throughout the course. This course can be used to complete the four credits needed for graduation and allows students to prepare for college entrance exams.

**Honors Pre-Calculus (Dual Enrollment Option)****1 Credit**

Prerequisite: B or higher in Algebra 2

This in-depth course develops proficiency of the twelve basic functions from the categories of polynomial, power, rational, exponential, logistic, and logarithmic. Graphing technology will be integrated throughout the course while all concepts will be developed through numerical, algebraic, and graphical procedures. Trigonometry will be investigated through formulas, functions, graphs, and applications. Finally, matrices, analytic geometry and discrete mathematics will be covered. These mathematical concepts will create a background needed to be successful in a college Calculus course and can be used to fulfill the fourth required math credit for graduation.

**Honors College Calculus (Dual Enrollment Option)****1 Credit**

Prerequisite: B or higher in Pre-Calculus

The course will cover the foundational topics in the theory of differential calculus of functions of a real variable and introduce the primary concepts of integral calculus. The most important topics in differential calculus are limits, continuity, continuous and differentiable functions, the first and second derivatives, physical interpretation (rate of change/velocity and acceleration), geometric interpretation (slope and concavity), Newton's method, the Intermediate Value Theorem, maxima/minima, concavity, curve sketching, rules for differentiation (including the chain rule and implicit differentiation, trigonometric functions, exponential and logarithmic functions), linear approximation and differentials, applications to optimization, related rates, the Mean Value Theorem, anti-derivatives, indeterminate forms and L'Hospital's Rule, higher order derivatives, and simple methods of anti-differentiation. From integral calculus, topics include areas and distances, Riemann sums and the definite integral, and the Fundamental Theorem of Calculus. All topics will be presented using numerical, graphical, and algebraic procedures. Following this course students should be prepared to enter into Calculus II at the college level.

**Fundamentals of Math****1 Credit**

This is a modified course for students who need extra help and are assigned by the Special Education Department. It is designed to enable the learner to grasp basic concepts and to experience more learning success in math.

## **PHYSICAL EDUCATION/HEALTH**

The Physical Education Department attempts to help the student understand that the body is the temple of the Holy Spirit (1 Corinthians 3:16) and thus requires proper emotional and physical care. Emphasis is placed not only on physical conditioning, but also on encouraging godly attitudes toward one another rather than mere physical achievement, and helping the student embody the positive character qualities of self-control, fairness, and persistence.

### **Alternative Physical Education Credit (Aerobic):**

**¼ or ½ Credit**

The purpose of this educational option is to provide the student an opportunity to receive up to ½ physical education credit through participation in an independent study in aerobic activity. The goal of this program is not only to fulfill the state of Ohio requirements for Physical Education, but also help the student understand the importance of aerobic activity to our bodies. The student must sign up for this course before beginning this program. Information and required forms are available in the office or on the guidance website.

### **Physical Education Credit Waiver:**

**Requirement Waived, No Credit Granted**

The purpose of this educational option is to provide the scholar athlete an opportunity to waive the physical education credit requirement by participation in a minimum of two seasons of a varsity and/or junior varsity sport. See below for details regarding the waiver.

### **Health:**

**½ Credit**

A survey of the total health of the Christian - spiritual, mental, physical and social - based on the premise of I Corinthians 6:15 and Luke 2:52. The ultimate purpose of this course is to encourage and develop a wholesome Christian understanding and response to current social vices, first-aid, CPR (American Heart Association Certification), personal care and hygiene, safety, the physiological systems, and Sex Respect. For some topics, the class may be split into separate gender groups.

## **Policy of Physical Education Waiver for Interscholastic Athletes**

Legacy Christian Academy has the following policy to excuse/waive from the high school physical education requirement each student who, during high school, has participated in OHSAA sanctioned interscholastic athletics or cheerleading for at least two full seasons. Eligible students shall not be required to complete any Physical Education course as a condition to graduate. However, the student shall be required to complete one-half unit, consisting of at least 60 hours of instruction, in another course of study.

If a student participates in only one full season of an approved activity, the student cannot be excused from .25 units of Physical Education and thus have to take only .25 units of Physical Education in order to complete his or her P.E. requirement under the Ohio Core. There is no provision in Ohio law or this school policy that would permit any type of partial excuse/waive.

This policy requires active participation “for at least two full seasons.” If a student is removed or if he/she quits the activity, that particular season cannot be used to meet the two-season requirement. They cannot mix and match sports seasons and PE classes to meet the requirement.

Students are subject to the graduation requirements of the district where they will graduate. In the case of a transfer student, the receiving district is not obligated to honor the PE waiver earned at Legacy Christian Academy. The district should count any non-PE credit the student earned as a condition for receiving the PE waiver while at Legacy Christian, but the student will still need to earn the required PE credit as required by the new district. Legacy Christian will honor sports participation at previous school districts only if it is documented on the transcript of your previous school.



## **PRACTICAL ARTS**

God has commanded us to subdue our environment (Genesis 1:26-28) and to make provision for our family (1 Timothy 5:8). Since we are responsible for how we manage our resources, along with our time and technology, the Practical Arts curriculum deals with skill development and stewardship in the practical areas of man's present environment.

### **Interior Design:**

**½ Credit**

A one-semester course offered as an introduction to house design and interior decoration concepts. Specific topics of study with practical applications will include: styles of homes, the cost of a home, structure of a house, housing needs of a family, building materials, furniture styles, principles of color and design in interior decorating, and use of decorating materials.

### **Stage Design/Construction:**

**½ Credit**

(Prerequisite: 'C' average or higher in Interior Design and teacher recommendation)

Stage design/construction puts into practice the basic principles learned in the Interior Design class. Students have the opportunity to design, assemble, decorate, and tear down for the school play. This practical course helps students to learn and develop the character qualities of diligence and dependability.

## **SCIENCE**

Courses within the Science Department emphasize God and His wonderful creation. Teachers will help students recognize God as the Creator and Sustainer of everything (Colossians 1:5-17). The student will learn how and why things happen as they do in the world of matter and life around us from a godly perspective. We present a Creationist viewpoint in our teaching of origins and use it as a guideline in all our teaching. Man, in his totality - body, mind, and spirit - has been commanded by God to have dominion over His creation. To that end we must be involved in science. It is through the study of God's creation, discovering its laws and principles, that we will be enabled to fulfill the scriptural mandate to be good and faithful stewards of our earthly realm.

### **LIFE (BIOLOGICAL) SCIENCE COURSES**

**Biology:** **1 Credit**

This one-year biology course provides a strong foundation in cellular biology, genetics, taxonomy, ecology, and origins. The course content is aligned with state standards and is biblically integrated so that God receives glory as students study the living world. Lab work is required and emphasizes data collection and interpretation. This course is suitable for 9th grade students.

**Honors Anatomy & Physiology:** **1 Credit**

(Prerequisite: C- or higher Biology and C- or higher in either Chemistry or Physical Science)

This one-year biological science course is an in-depth study of the structure and functions of the human body, designed especially for the college-bound student who enjoyed Biology, and desires further knowledge in this area. Lab work included with required dissection.

**Environmental Science:** **1 Credit**

(Prerequisite: Biology and either Chemistry or Physical Science)

Environmental Science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

**Advanced Biology (Honors):** **½ Credit**

(Prerequisite: Biology and the permission of the science teachers)

This one-semester biological science course is designed for those considering a career in science. This course reviews some of the basic concepts as well as the contemporary applications of Biochemistry, Microbiology, and Genetics. This course is designed to have more opportunities for laboratory experience as well as discussion of the philosophical and ethical implications for the future of biological science.

## PHYSICAL SCIENCE COURSES

### **Honors Chemistry:**

**1 Credit**

(Prerequisite: Biology and a C- or higher in Algebra 1)

This one-year physical science course provides students with an understanding of the foundational concepts of chemistry and provides in-depth study of many topics. Laboratory work and inquiry-based activities are included to give the students first-hand experience and to build their skills in using the scientific method. Honors Chemistry will help students prepare for college studies in general and will be advantageous for students who plan to major in any area of science.

### **Honors Physics:**

**1 Credit**

(Prerequisite: completion of Honors Chemistry and concurrently enrolled or have completed Algebra 2)

This one-year physical science course is a modern approach to the study of force, motion, waves, heat, light, sound, optics, electricity and magnetism, atomic and nuclear physics with laboratory work in many of the areas.

### **Physical Science:**

**1 Credit**

(Prerequisite: Biology and the permission of the science teachers)

Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy, and motion. A unified understanding of phenomena in physical, living, Earth and space systems is the culmination of all previously learned concepts related to chemistry, physics, and Earth and space science, along with historical Biblical perspective and mathematical reasoning.

### **Astronomy:**

**½ Credit**

This one-semester physical science class enables the student to gain a better understanding of God's creative work as revealed by the study of objects in space (Psalm 19:1-6). Astronomy includes becoming familiar with our night sky by learning the names of select stars and constellations, gaining a biblical perspective of proper and improper uses of astronomy, studying the men involved in the development of ideas in astronomy, and studying the solar system and its components as well as stars and galaxies. Methods for studying heavenly bodies are introduced.

### **Advanced Chemistry (Honors):**

**½ Credit**

(Prerequisite: Must have taken a full year of Chemistry with a B or higher)

This one-semester physical science course continues to reinforce the biblical principle of orderliness in God's creation. It also enables students to understand that God has established certain natural chemical "laws" that remind us of His unchangeableness. The course starts with a quick review of general chemistry. The remainder of this course is organic chemistry. There are a number of experiments included for each topic.

## **SOCIAL STUDIES**

The social sciences focus on the relationships between and actions of people. Therefore, the Social Studies Department believes that the most important principle to be learned in a proper study of the social sciences is God's sovereignty. He is in control of all things (Job 12:23). The courses offered in this department demonstrate the blessings and consequences as man either draws near to God or goes his own way. We strive to teach students to think with the mind of Christ, to apply knowledge to the world as it is, and to use this wisdom to mold our society to God's will.

### **9<sup>th</sup> Grade**

#### **Modern World History**

**1 Credit**

This course examines world events from 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking are advanced with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. The emphasis of the course will be for students to develop Christian worldview applied to cultural situations, and the critical thinking skills and strategies necessary for standardized testing and college entrance exams.

### **10<sup>th</sup> Grade**

#### **US History (Original Documents and Modern)**

**1 Credit**

This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

### **11<sup>th</sup> Grade**

#### **CSP**

**½ Credit**

This course focuses on the application of Biblical doctrine to the social problems facing our culture. The foundations of a Biblical worldview are reexamined in light of the various social, economic, political, and religious problems. Students are encouraged to put these problems into a framework of the created order, results of the fall, modern application, and redemptive approaches at solutions culminating in a social activism project.

## 12<sup>th</sup> Grade

### **Government**

**½ Credit**

How the American people govern themselves at national, state and local levels of government is the basis for this course. Students will analyze the current American government in light of Scriptural principles. Students can impact issues addressed by local governments through service learning and senior projects.

### **Personal Finance**

**½ Credit**

This course explores the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants through a study of Macroeconomics and Microeconomics. More specifically, it examines the ability of individuals to recognize their stewardship role in God's economy and provide the knowledge and skills to manage limited financial resources effectively for a lifetime of financial security.

### **Senior Seminar**

**½ Credit**

LCA seniors are getting ready to exit the K-12 program and start the world of college, military or work and they are expected to be proficient, excited, ready to go, in many key aspects of thinking, problem solving, Biblical apologetics, articulation of beliefs, people skills, and a readiness to engage with sophistication on many hard and important topics. We will review the mission of LCA along with the expected outcomes of our graduates and pair this understanding with a focus on who we are in Christ and what He has designed us to be. This class will lean on guest speakers who can talk about how God is using them in the world of work and ministry and how they are living the "Good and Abundant Life" with all its joys and challenges. There is a lot of attention to personal disciplines and sorting out what God's Word is saying to us. A key component is the exercise of journaling.

## **TECHNOLOGY--APPLIED**

### **Robotics 1**

**½ Credit**

This one semester course introduces students to designing, building, and programming LEGO EV3 robots. This course has a focus on learning programming. Students work in teams to design and program robots to accomplish various challenges and missions.

### **Robotics 2**

**½ Credit**

This one semester course builds on the skills learned in Robotics 1 and shifts the focus to robot design while also incorporating some advanced programming skills. Students work in teams to design and program robots to accomplish various challenges and missions.

## OTHER

### **Library Aide:**

**¼ Credit**

(Prerequisite: permission of Librarian)

Students will learn the procedure for managing the library. This includes processing books, checking out books, writing up library fines, repairing books and AV materials, taking inventory of materials and being knowledgeable about the Library in order to help students and teachers. There will be worksheets to complete. They will become proficient in the use of the Dewey Decimal System.

### **Office Aide:**

**¼ Credit**

(Prerequisite: permission of office staff and must be a sophomore, junior, or senior)

In this one semester Pass/Fail course the student will learn the procedure for assisting the secretary in managing an office. Under adult supervision the student will become proficient in general office skills including answering phones, keyboarding, basic computer skills, making copies, sending faxes, delivering mail, filing and doing errands. The student will understand and execute detailed and sequential instructions and be tolerant of repetitive tasks. The student will learn to solve basic problems and work effectively with adults and peers. The student will demonstrate patience, tact, a willingness to learn and confidentiality. Assessment will be based upon competency in the above-mentioned skills.

### **Teacher Aide:**

**¼ Credit**

(Prerequisite: permission of Instructor and must be a sophomore, junior, or senior)

In this one semester Pass/Fail course the student will learn the procedure for assisting the teacher. Under adult supervision the student will become proficient in basic computer skills, keyboarding, making copies, data entry, record keeping and running errands. The student will understand and execute detailed and sequential instructions and be tolerant of repetitive tasks. The student will learn to solve basic problems and work effectively with adults and peers. The student will demonstrate patience, tact, a willingness to learn and confidentiality. Assessment will be based upon competency in the above-mentioned skills.

## **ESM (Enrichment, Service, Ministry) WEEK**

This week of school adjacent to spring break is an opportunity for students to take place in various enrichment, service, or ministry opportunities. Most opportunities earn  $\frac{1}{4}$  credit, but a ministry trip with significant preparation time will earn  $\frac{1}{2}$  credit. Options for ESM week include, but are not limited to:

**Ministry Trip** (Costa Rica & other possibilities)

**Enrichment Trip** (Possibilities include Italy, Israel, Washington DC – Not all trips will be offered each year. Family travel opportunities can be approved by the superintendent)

**Service Projects** (subject to superintendent approval)

**Job Shadowing** (subject to superintendent approval)

**Ministry Shadowing** (subject to superintendent approval)

**Home Economics** (May be cooking or sewing)

**Intro to Industrial Arts** (Working on musical set)