



# LANCASTER COUNTY CHRISTIAN SCHOOL

Upper School: Grades 9-12



## Course Descriptions



## **Bible**

### **Old Testament (Grade 9) Full Year**

Old Testament focuses on the story of God recorded in the Law, Prophets, and writings of the Old Testament. Students learn key themes in the context of the Old Testament story with a view toward the fulfillment written about in the New Testament. Students develop exegetical skills by studying the various genres in the Old Testament. The Kingdom of God is studied as the foundation of biblical theology, a biblical worldview, and the integration of salvation into daily life.

Textbooks: *Museum of the Bible; volumes 1 & 2*

### **New Testament (Grade 10) Full Year**

New Testament focuses on the story of God recorded in the Gospels and Letters of the New Testament. Students will learn key themes in the New Testament story with a view toward the fulfillment found in Jesus, the growth of His Church, the hope of the resurrection, and the hope of a new heaven and new earth. Students develop exegetical skills by studying the various genres of the New Testament. The Kingdom of God is studied as the foundation of biblical theology, a biblical worldview, and the integration of salvation into daily life.

Textbooks: *Museum of the Bible; volumes 3 & 4*

### **History of Christianity (Grade 11) Full Year**

History of Christianity looks at the history of Christianity through the lens of the author focusing on, as the name of the book would suggest, the turning points. Students will learn about the foundation of Christian beliefs based on Jewish beliefs, heresies, creeds, church governments and much more. They will travel through time to explore the many things that have created the church we know today.

Textbooks: *Turning Points: Decisive Moments in the History of Christianity*

### **Apologetics (Grade 12) Full Year**

Apologetics focuses on engaging culture using eternal truths. Students will learn why it is important to engage with the culture and how we can do so in a Christ-like manner. Students will be faced with hard cultural topics to discuss such as: immigration, homosexuality, abortion, and more. Students, by the end of the class, will not only know how to defend their faith, but they will also be able to engage with people who believe differently than themselves and still show the love of God.

Textbooks: *Understanding the Culture: A survey of Social Engagement; Understanding the Culture: A Survey of Social Challenges*

## **Computer Technology**

### **Coding Elective (Grades 9-12) 1 Semester**

Coding is an elective that meets two periods per week. In coding class, students will receive an introduction to programming in Java. Students will write codes that print information for a user to see, takes information from the user, performs calculations, compares data, and reports back values to the user. Students will also learn to write methods to prevent the need for copy paste coding.

### **Tech Team Elective (Grades 9-12) 1 Semester**

By participating on the Tech Team, students will learn about sound, lighting, and visuals for live events and how to operate the AV equipment. They will run the AV equipment for the school musical, chapels, and more.

## **Fine Arts: Music/Performing Arts**

### **Choir Elective (Grades 9-12) 1 Semester**

The upper school choir is open to all singers in grades 9-12. The choir rehearses three periods per week. Time is devoted to learning, demonstrating and strengthening good vocal habits, correct posture, accurate diction, as well as performing a variety of musical styles and genres. The choir performs in concerts throughout the year. Students are encouraged to study with a private voice teacher outside of choir.

### **Instrument Ensemble Elective (Grades 9-12) Full Year**

The upper school instrument ensemble is open to wind, percussion, and string musicians. This class currently meets to rehearse two periods per week and requires a one-year commitment. Students perform select ensemble music for school concerts and outside playing events as opportunities arise. Students are encouraged to take private lessons outside of school in order to spend time in school working on ensemble orchestra music. Piano keyboard and harp students may also be incorporated.

### **Worship Team Elective (Grades 9-12) 1 Semester**

Students involved in worship team will choose songs and rehearse for weekly chapels and other events during the school year. Vocalists will learn how to harmonize and lead worship confidently. Instrumentalists will learn the importance of collaboration in a band setting.

## **Fine Arts: Visual Arts**

### **Introduction to Fine Arts (Grade 10) Full Year**

Study of the arts encourages the appreciation of God's creation and inspires imagination, creativity, and problem-solving skills. Students will develop a vocabulary of artistic terms so they are better able to examine and critique the arts and are equipped to apply their acquired knowledge to their own creative projects, including a research project on an approved fine/performing art or artist. Various forms of media such as slide lectures, film, music, and studio assignments will be used to investigate and appreciate the fine and performing arts.

### **2D Design - Basic Drawing & Painting Elective (Grades 9-12) 1 Semester**

The 2D Design provides the student with a background in two-dimensional design. Students are encouraged to creatively solve art and design problems. Drawing and painting are the main areas of exploration. Emphasis is on learning to draw from observation. Students explore acrylic and watercolor painting. Whether students have little or much artistic talent, projects are designed for all who are diligent to have success. The course is designed for all students to discover their potential and be able to continue into a variety of visual art careers.

### **3D Design/Sculpture Elective (Grades 9-12) 1 Semester**

This course focuses on sculptural form and personal expression. Students study both organic form and geometric form, with emphasis on composition and self-expression. This class is for students to focus on the elements and principles of design while they create projects from a variety of media, which may include metal, plaster, wood, textiles, and clay. This course will provide students interested in any field of art with a solid foundation. Whether students have little or much artistic talent, projects are designed for all who are diligent to have success. The course is designed for all students to discover their potential and be able to continue into a variety of visual art careers.

Prerequisite: Introduction to Fine Arts

### **Ceramics I / Ceramics II / Ceramics III Electives (Grades 9-12) 1 Semester**

This course gives students opportunities in basic construction, yet it will allow personal expression within assignments. Students develop an appreciation of ceramic art through discussion and analysis of each other's work and ceramics in a historical context. At the advanced levels of Ceramics, students

will be encouraged to further their ceramic knowledge and creativity through more technically and contextually challenging assignments. Students are expected to bring their prior knowledge learned in Introduction to Ceramics. Sketchbooks are required. Sculptural and functional works are the focus of this course. Students have an opportunity to experience wheel throwing at a very basic level in this course. (Advanced students may register during the Beginning Ceramics class time slot.) This course will provide students interested in any field of art with a solid foundation. Whether students have little or much artistic talent, projects are designed for all who are diligent to have success. The course is designed for all students to discover their potential and be able to continue into a variety of visual art careers.

Prerequisite: Introduction to Fine Arts

### **Photography Elective (Grades 9-12) 1 Semester**

Photography teaches students to move from taking snap-shots to taking photographs as an artistic tool. Emphasis is on composition as students experience a wide variety of assignments. Students learn the elements and principles of design, group critiquing skills, along with basic camera and editing skills. Students must have a basic digital camera. This course will provide students interested in any field of art with a solid foundation and is designed for all students to discover their potential. Whether students have little or much artistic talent, projects are designed for all who are diligent to be able to have success. Photography is an excellent course for students who want a career in any visual field.

### **Pottery Elective (Grades 9-12) 1 Semester**

Students will learn to center and throw vessels on the potter's wheel. A main focus will be on tooling, finishing, and glazing. Students will learn to pull and attach handles to their artwork. There will be hand-building components to completed pieces. While utilitarian pieces will be the emphasis, decorative works will be explored.

### **Studio Art/Portfolio Preparation Elective (Grade 12) 1 Semester**

Studio Art/Portfolio Preparation is designed for advanced art students to be able to investigate their art independently. It is a studio class for students to work on portfolio pieces and/or develop their individual artistic strengths. It is an opportunity for students to focus on their artistic study and investigate their chosen medium. Projects are developed with teacher and student input. Students will be expected to be self-motivated and work independently. This course will provide art students with an opportunity to expand on their arts foundation. This course is dedicated to advanced students, with projects designed for in-depth exploration and execution. The course is designed for students to strengthen and further develop their giftings in order to pursue a career in a visual arts field.

Prerequisite: Introduction to Fine Arts, teacher approval

## **Foreign Language**

### **Spanish 1 (Grades 8 & 9) Full Year**

This course is an introduction to the Spanish language and culture. It allows students to perform basic functions of the language and become familiar with elements of its culture. The emphasis is placed on the development of the four skills of listening, speaking, reading, and writing within a given context. Students focus on vocabulary, grammar, and cultural awareness. Learning includes verb tenses (present, present progressive, and simple preterite verbs) with topics including family, sports, home, and city. Students will recite simple Bible verses.

Textbook: *Avancemos 1*

### **Spanish 2 (Grade 9 & 10) Full Year**

This course begins to immerse students in the target language that begins with a review of the grammar and vocabulary studied in Spanish I. The study of Spanish grammar and vocabulary continues, as does the study of the culture of Spanish-speaking societies. Listening, speaking, reading

and writing skills are emphasized. Students learn to recite more advanced Bible verses. At the completion of Spanish II, students will have fulfilled their Foreign language requirement and also become eligible to further their language skill in Spanish 3 and above.

Textbook: *Avancemos 2* Prerequisite: Spanish 1

### **Spanish 3 Elective (Grades 10-12) Full Year**

Accelerated study of the Spanish language for students with successful completion of Spanish 2 coursework. Continued study of essential Spanish grammar and Spanish-speaking cultures. Emphasis on fluency and accuracy in written and spoken Spanish. Students learn to talk about, write about, and present Bible stories, including The Lord's Prayer and Noah's Ark.

Textbook: *Avancemos 3* Prerequisite: Spanish 2

### **Advanced Placement Spanish (Grades 11 & 12) Full Year**

While exploring many texts, workbooks, audios, and videos, students use the language in a variety of contexts. Speaking almost entirely in Spanish to enhance their language and cultural learning, students analyze and think critically about the following themes: global challenges, science and technology, contemporary life, personal and public identities, families, communities, beauty, and aesthetics.

## **Language Arts**

### **Foundations of English (Grade 9) Full Year**

This foundations English course exposes students to major literary works and numerous literary genres; such as epics, novels, short stories, drama, and poetry. Students will become equipped in recognizing plot and character development, as well as close reading, comprehension and critical thinking skills. Students will respond to the texts via class discussion, small group projects, and individual assessments. This course is specifically paired with Rhetoric (Grade 9) which reinforces the grammar and writing aspect of English language arts.

Textbook: *9<sup>th</sup> Grade Literature* by Prentice Hall

### **Advanced Foundations of English (Grade 9) Full Year**

Students in Advanced Foundations of English are assigned additional readings at certain times throughout the school year. The written and verbal responses to the literature covered are more numerous and require students to consider the texts more deeply. Their responses will require strengthened close reading, critical thinking, and comprehension skills. Students in the advanced section will also lead small group student discussions within the class. Presentations, projects, and assignments will occasionally include a few extra requirements.

This advanced section of students will also have additional requirements for the Rhetoric portion of their English class. Altered requirements may include, but are limited to, more targeted and challenging essay prompts, longer length requirements for final papers, and a measured ability to compose highly organized, well thought out and supported statements in their writing. The midterm and final exams for this course will also be more substantial; both in length as well as in the nature (depth) of the questions being presented.

### **Rhetoric (Grade 9) 1 Semester**

Rhetoric is a supplemental (and complimentary) component of Foundations of English (Grade 9). The purpose of Rhetoric is to expand upon the literature the students are reading, comprehending and discussing throughout the year. This course is designed to reinforce and practice fundamental grammar studies which includes, but is not limited to, parts of speech, parts of sentences, phrases, clauses, and punctuation. Vocabulary study is emphasized beyond literary context through biweekly vocabulary units. This Rhetoric course focuses heavily on refining necessary writing skills. The four major modes of

writing that students will encounter are persuasive, narrative, research/analytical and public speaking essays. By the completion of the course students will be well equipped in their ability to critically think and react to a text, as well as convey their ideas in effective textual compositions.

Textbooks: *Grammar for Writing, Level Orange; Sadlier-Oxford; Vocabulary from Classical Roots (E)*

### **Rhetoric 2 (Grade 10) 1 Semester**

Rhetoric 2 continues the work of Rhetoric 1. The course allows students to practice techniques of grammar and expression through writing. Students will learn additional words through vocabulary units. By the completion of the course, students will be able to think critically about how writers use language to communicate meaning and express their own ideas in writing.

Textbooks: *Grammar for Writing, Level Orange; Sadlier-Oxford; Vocabulary from Classical Roots (E)*

### **American Literature (Grade 10) Full Year**

American Literature focuses on the works and authors of American literature and their relationship to American history. Grammar studies include correct usage. Vocabulary study is emphasized beyond literary context through bi-weekly vocabulary units of fifteen words each. Writing exercises center on analytical essays, culminating with a research paper.

Textbooks: *Elements of Literature: Essentials of American Literature; Vocabulary from Classical Roots (D)*

### **Advanced American Literature (Grade 10) Full Year**

Advanced American Literature focuses on the works and authors of American literature and their relationship to American history. Advanced students should be able to respond to the works of literature with deeper insight in their writing and discussion. They will need to identify and analyze symbols, figures of speech, and images in texts to better understand deeper meanings. Advanced students must display patience, focus, and tenacity in their reading. Their work should reflect strong skills in close reading, literary comprehension, and critical thinking.

Textbooks: *Elements of Literature: Essentials of American Literature; Vocabulary from Classical Roots (D)*

### **British Literature (Grade 11) Full Year**

British Literature focuses on representative selections of British literature from the Old English, Middle English, and Modern English periods and their relationship to British history. Vocabulary study is emphasized beyond literary context through bi-weekly vocabulary units. Grammar studies include a review of sentence structure and sentence types, as well as some SAT prep work. Writing exercises include the review of the essay format with a focus on the critical analysis of literature.

Textbooks: *Elements of Literature: Essentials of British and World Literature; Vocabulary from Classical Roots (E)*

### **Public Speaking (Grade 11) 1 Semester**

Public Speaking focuses on training students to become relaxed and confident speakers. Students learn techniques needed to deliver speeches in a number of different situations. Students also learn how to write a successful speech. Students deliver approximately eight speeches and readings throughout the semester. Additionally, students learn to be attentive listeners to evaluate the words and ideas of speakers in the public arena. In this course, students study famous speakers and speeches.

### **Advanced Placement Literature and Composition (Grades 11 & 12) Full Year**

Advanced Placement Literature and Composition focuses on the careful reading and critical analysis of imaginative literature. Students sharpen their awareness of language and their understanding of the writer's craft. They develop critical standards for the independent appreciation of a literary work. They

also learn to consider works of English literature in their historical context. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays.

*Textbooks: Literature: Structure, Sound, and Sense; Beowulf and Related Readings; The Canterbury Tales and Related Readings; Macbeth: Comprehension, Analysis, Composition; Vocabulary Energizers*

### **Literature and Composition (Grade 12) Full Year**

Literature and Composition focuses on both Christian and secular classics with an emphasis on analyzing all literature from a Christian perspective. The course includes a play of Shakespeare and a large poetry unit featuring a study of a wide variety of poets. Writing exercises center on the five-paragraph expository essay. One major culminating research project is also assigned.

*Textbooks: Various representative novels and short stories*

### **Creative Writing Elective (Grades 9-12) 1 Semester**

This course offers students an opportunity to explore writing in a writer's workshop environment. Investigating the works of published authors, student writers will incorporate new techniques into their own works of fiction, memoirs, or poetry. This class is perfect for students interested in the use of language and in exploring and developing their own creative writing abilities.

### **Debate Elective (Grades 9-12) 1 Semester**

This course offers students an opportunity to practice debating. Students will learn the components of an effective argument and use them to construct their own arguments on contemporary issues. They will then use the class to conduct and moderate debates by asking good questions and providing informative answers. This class is good for students interested in practicing public speaking and argumentation.

### **Student Newspaper Elective (Grades 9-12) 1 Semester**

Students engage in the process of researching stories, creating content, and publishing original work. Students will get a feel for how journalism functions. This course provides hands-on experience developing, editing, and formatting original content. Students will learn to interview, write journalistically, and produce a product that will be printed and submitted to the LCCS student body, faculty, and community.

## **Mathematics**

### **Algebra 1 (Grade 9) Full Year**

Algebra 1 reviews properties of numbers and solving basic equations, inequalities, and proportions. Graphs of linear, quadratic, and exponential equations are introduced and reviewed. Students write equations of lines. They also solve systems of equations using algebra and graphing. Exponent rules are reviewed. Factoring polynomials leads to solving quadratic equations. Students simplify radical expressions and solve equations. Students work with rational expressions, their graphs, and solving equations with rational expressions.

*Textbook: EdGems Algebra 1, (EdGems Math LLC, 2020)*

### **Geometry (Grades 9 & 10) Full Year**

Geometry is a study of physical space and all of the things that it contains. In this course we will mostly be concerned with Euclidean Geometry (geometry based on flat surfaces). Geometry is a course that starts with the most basic building blocks and works its way outward adding definitions, postulates, and theorems over time to construct a bottom-up understanding of the geometric world. Students will learn

about points, lines, planes, angles, polygons, and solid figures. Students will also become well versed in the logic and reasoning required for writing proofs. A graphing calculator (TI-83 or TI-84) is required. A compass and protractor set is required for constructions of geometric figures.

Textbook: *Geometry (Prentice Hall, 2011)*

### **College Prep Algebra 2 (Grades 9-11) Full Year**

A review of Algebra 1 skills begins the Algebra 2 course, including equations, inequalities, systems of equations, and quadratic equations. Matrices are introduced and used to solve systems of equations. Solving polynomial, radical, and rational exponential functions incorporates factoring and graphing concepts. Exponential functions are reviewed and used to introduce logarithms. The conic sections are both reviewed (circles and parabolas) and introduced (ellipses and hyperbolas). Sequences and series are used to write functions. Periodic functions and trigonometric ratios incorporate solving trigonometric equations and the use of identities along with their graphs. A graphing calculator (TI-83 or TI-84) is required.

Textbook: *Algebra 2 (Prentice Hall, 2011)*

### **Honors Pre-Calculus (Grades 11 & 12) Full Year**

Pre-Calculus is an honors level math course intended to prepare students for AP Calculus. Pre-Calculus begins with a rigorous and in-depth review of Algebra 2 topics. The course then shifts to a comprehensive investigation of trigonometry. Trigonometry will lead into discussions of vectors, polar equations, conic sections, and even imaginary numbers. Students will learn to graph in two new planes (the polar and imaginary planes), and they will investigate the graphing of sets of parametric equations. By the end of the course students will have a thorough understanding of both the graphs and equations of algebraic and transcendental functions needed for AP Calculus. A graphing calculator (TI-83 or TI-84) is required.

Textbook: *Advanced Mathematical Concepts: Pre-calculus with Applications (Glencoe, 2004)*

### **Advanced Placement Calculus AB (Grade 12) Full Year**

AP Calculus is a course designed to simulate a college level Calculus 1 course. In May students have the option of taking the AP Calculus AB exam, which approximates a final exam for a Calculus 1 course. In AP Calculus students will become skilled in applying limits, differentiation, and integration to solve real world problems. Use of algebra and trigonometry skills are a core component to all topics taught. Students will build upon these skills to exam the steepness of curves, find instantaneous rates of change, discover minimum and maximum function values, identify points of inflection, calculate the exact area under a curve, and find the exact volume of irregular objects. Students will also learn to navigate related rates problem. Throughout the year students will be exposed to various techniques for differentiation and integration to allow for multiple option of representation and calculation. Near the end of April, students will take a simulated AP exam which will kick off an intensive review for the AP Exam in May. During this time, students will be coached in general test taking strategies as well as content-based strategies. A graphing calculator (TI-83 or TI-84) is required.

Textbook: *Calculus of a Single Variable 8<sup>th</sup> Edition (Houghton Mifflin, 2006)*

### **Personal Finance (Grade 12) Full Year**

Personal Finance is an excellent class which prepares seniors for adult-life money management. Job searches, resume-writing, and mock interviews are completed, along with attending a job fair. Creating a budgeting for, shopping for, purchasing, and maintaining key items such as a vehicle, apartment/house, and other major purchases are practiced with different incomes. Tithing, the consequences of debt and how to stay out of debt, responsible investing, FICO, planning to pay for higher education and student loans, selecting a bank or credit union, and filing taxes, along with other financial decisions are learned. Individual research projects are a key component to this course, and



include a variety of areas, such as career planning, budgeting scenarios, meal planning, vacation planning, and other adult-life situations. A basic calculator is required.

Textbooks: *Financial Peace School Curriculum: Foundations in Personal Finance*, by Dave Ramsey (Lampo Press, 2008), *Consumer Mathematics* (Globe Fearon, 2004), selected readings from *Debt-Free Living* by Larry Burkett.

## **Physical Education**

### **Physical Education (Grades 9-12) Full Year**

Students perform fitness work that takes into account the five major aspects of physical fitness: strength, muscular endurance, cardiovascular health, flexibility, and body composition. The standards of the Presidential Committee of Physical Fitness are used for physical fitness testing. Students also practice sport skills that cover hand-eye and foot-eye coordination, while learning the ideals of working as a team and trying one's best. Students learn sports that they can play throughout their lives, including sports from other countries.

### **Health (Grade 10) 1 Semester**

Health class covers nutrition, eating disorders, drug and alcohol abuse, problem solving, and personal care and appearance. The class utilizes discussion groups, student presentations, videos, outside speakers, and essays to facilitate learning.

### **Advanced Physical Education Elective (Grades 9-12) 1 Semester**

Advanced physical education class is for students interested in participating in traditional activities at a competitive level. Class activity emphasizes fitness through participation and effort as well as a higher level of skills and strategy. The class is recommended for students who really enjoy physical activities and playing competitive games such as handball, volleyball, soccer, football, softball and other active sports. Many students are unable to display their full athletic skills in a typical physical education class. This elective allows for those students with above average athletic ability to use their skills and compete against other students with a similar skill set in a highly competitive atmosphere. Their athletic skills and the knowledge the students gain from this elective will help guide them in figuring out what course of study they may want to venture into. Whether that be sports management, athletic training, coaching, teaching, or just for gaining a lifetime skill.

### **Leisure Sports Elective (Grades 9-12) 1 Semester**

Leisure Sports focuses on a variety of activities and sports that are viewed as lifetime sports, meaning they can continue to be played for the majority of the average person's lifetime. Students will have the opportunity to explore a specific sport in depth and then share what they have learned with the class. Most of these activities and sports are familiar to the students. After learning the basics of the sport, students practice each sport and then participate in a tournament. Since they get to sample many different activities, the goal for the course is to find something that they enjoy doing to encourage living an active lifestyle throughout their lives.

### **Weight Training Elective (Grades 9-12) 1 Semester**

Weight Training is primarily student initiated. Students develop and implement a personal program to later workout under teacher supervision. In the fitness courses, offered as electives, students are taught and instructed about different body parts (i.e. muscles, tendons, joints ligaments etc.) and how they function and interact. They are taught how to strengthen such and alternatives in case of injury or limitations. They are also taught how to use a weight room and training to address certain sports and activities as well as muscle groups.

## **Science**

### **Introduction to Physics (Grades 9) Full Year**

Physics covers a variety of physics topics, such as the mechanics of motion, forces, various types of waves, fluid mechanics and buoyancy, and projectile motion. Students must have the ability to use geometry concepts and will be expected to complete problems using various types of physics laws in the form of equations. Students have the opportunity to complete experiments and activities designed to enhance the physics experience and develop their proficiency at writing lab reports.

Textbook: *Introductory Physics*, (Novare, 2016)

### **Advanced Studies in Physics & Chemistry (Grade 9) Full Year**

This course is designed for students on the accelerated math level. Topics in physics and chemistry will be covered, including planetary motion, Newton's laws, energy, heat & temperature, waves, electricity, substance, atomic models, atomic bonds, and chemical reactions.

Textbook: *Accelerated Studies in Physics & Chemistry 2<sup>nd</sup> edition* by John D. Mays (Novare, 2018)

### **General Biology (Grade 10) Full Year**

In College Preparatory Biology, students study living portions of God's creation. They learn to recognize characteristics of life and understand basic life processes and structures. Students study the movement of energy through ecosystems and identify how organisms interact with each other and with their environment. Students also explore biblical stewardship as they learn how man impacts the environment.

Textbook: *General Biology* by Stephen Nowicki (Holt-McDougal, 2012)

### **General Chemistry (Grade 11) Full Year**

College Preparatory Chemistry is designed to give college-bound students a solid understanding of a wide range of chemistry concepts. Chemistry is the study of matter; we explore how it has been designed by God and how it undergoes changes. Students study these reactions at the subatomic, atomic, molecular, and system levels. Topics include formulas, reaction types, bonding, stoichiometry, thermodynamics, nomenclature and a study of gas laws.

Textbook: *General Chemistry* (Novare, 2016)

### **Anatomy and Physiology (Grades 11 & 12) Full Year**

Anatomy and Physiology is a biology course that investigates the relationships between the structures and functions of the human body systems. The structural study focuses on the basic anatomical terminology, the identification of human organs and system. The functional study examines the physical, mechanical and biochemical function of the human body. It explores the great details of each of the major systems of the body and how they work together in unity. Topics covered include the basic organization of the body, biochemical composition, cellular processes, organ systems and the body as a whole. In addition, it examines common pathologies as they relate to the body structural arrangements and functional operations. Students will learn through group activities, class discussion, anatomical models, laboratory activities, reading materials, research projects, and dissections. Students will gain an understanding and appreciation for the human body – God's masterpiece.

Textbook: *Essentials of Human Anatomy & Physiology*, Elaine Marieb, 8<sup>th</sup> edition (Pearson, 2006)

### **Advanced Placement Biology (Grades 11 & 12) Full Year**

Advanced Placement Biology is a further study of Biology concepts that is designed to be like a college course in its pacing and depth. Emphasis will be place on cell biology, cell energetics, genetics and ecology. Laboratory activities comprise at least one-fourth of classroom time.

Textbook: *Biology in Focus*, Campbell, AP 2<sup>nd</sup> edition (Pearson, 2017)

**Robotics Elective (Grades 9-12) 1 Semester**

Robotics is an elective course intended to serve as an introduction to the field of robotics. This course will provide students with an opportunity to acquire skills in computational thinking, engineering, and coding. Students will be challenged to use the Lego Mindstorms EV3 Core Set and Expansion Set to build and program robots fit for industry specific tasks.

**Wildlife Biology Elective (Grades 9-12) 1 Semester**

Wildlife Biology will provide students with the skills and opportunities to collect and analyze data of local plant and animal populations. They will apply their knowledge to game population studies and conservation planning.

**Social Studies****United States History 2 (Grade 9) Full Year**

College Preparatory United States History II continues American studies as a rebirth of the nation following the Reconstruction Era. The course studies the conflicts and events which defined our higher purpose and culminate with current U.S. history topics. Students will experience United States history up to and including World War II.

Textbook: *The American Vision, Modern Times (Glencoe)*

**Advanced United States History 2 (Grade 9) Full Year**

US History II continues American studies as a rebirth of the nation following the Reconstruction Era. The course studies the conflicts and events which defined our nation and have led us to where we are today. Students will experience United States history up to and including World War II.

Textbook: *The American Vision, Modern Times (Glencoe)*

**Modern World History (Grade 10) Full Year**

Students learn modern world history from a chronological approach regarding various time periods and a thematic approach, such as empire building, imperialism, the Cold War, world wars and developing nations. The course begins with the Renaissance and concludes with World War II.

Textbook: *World History, The Modern Era (Prentice Hall)*

**Advanced Modern World History (Grade 10) Full Year**

Students study world history from the European Renaissance through WWII with a particular focus on events and people outside of the United States. Students develop an understanding of modern world history and build historical analysis skills. The course examines the interwoven events of different nations and people groups throughout our modern global history and the short and long-term causes and effects of those events. Students utilize textbooks, literature, art, research projects, video, artifacts, field trips, and student presentations to complete this course of study.

Textbook: *World History, The Modern Era (Prentice Hall)*

**United States History 3: (Grade 11 & 12) Full Year**

Our college preparatory United States History continues American studies with the end of World War II through the Cold War years and culminating with current issues. The course will compare and contrast United States history with global history and issues. Students will gain an understanding of the importance of economics and ethical decision-making processes.

Textbooks: *United States History & Geography: Modern Times (Glencoe)*

**Advanced United States History 3: (Grade 11 & 12) Full Year**

United States History III studies post war America through to the present day. Students will develop an understanding of the semi-recent events in American history and how they affect us today. They will interact with different movements throughout this time period as both conservatism and progressivism

take turns being at the forefront of life. Students will engage with current events and how they impact their lives today. Students utilize textbooks, literature, art, research projects, video, artifacts, field trips, and student presentation.

Textbooks: *United States History & Geography: Modern Times* (Glencoe)

### **Government, Civics & Economics (Grades 11 & 12) Full Year**

College preparatory Government and Civics is designed to prepare students to be ethical and well-informed citizens of the United States and the world. This course provides basic knowledge of the United States government, civics, and economics and how those concepts apply to us as individuals, our families, our community, our occupations, our nation, and our world. Students will engage in debates and debates, study government documents and supreme court cases, read about and analytically respond to current events, and interact with guest speakers.

Textbooks: *Building Citizenship: Government and Economics* (McGraw Hill, 2014)

### **Advanced Placement United States History (Grades 11 & 12) Full Year**

Advanced Placement United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and documents in United States history. Students engage in significant primary document research, analytical writing, and preparation for the AP U.S. History examination.

Textbooks: *The American Pageant, A History of the American People*, (Wadsworth Cengage Learning)  
*The American Spirit*, vols. 1&2, (Wadsworth Cengage Learning)

### **Advanced Placement Government and Politics (Grades 11 & 12) Full Year**

The goal of Advanced Placement Government and Politics is to provide students with the equivalent of a college-level introductory course in American government and politics. Students engage in significant primary document research, analytical writing, and preparation for the AP U.S. Government and Politics examination.

Textbooks: *American Government and Politics Today* (Cengage Learning, 2015-16)  
*Government By the People: 2009 National Edition* (Longman Publishing)

### **Geography Elective (Grades 11 & 12) 1 Semester**

This course will introduce students to the subject of geography through a hands-on approach. Students will learn the meaning of the five themes of geography - location, place, human-environment interaction, movement, and region. They will independently research and develop an understanding of countries and continents. Teams will create research projects of both real and imaginary countries and continents following the five themes of geography as a guide. Local, national, international maps will be used extensively. If you enjoy maps, you should enjoy this class.

## **Other Electives**

### **Architectural Design I Elective (Grades 9-12) 1 Semester**

Architectural Design I is an introductory level computer aided design course where students will learn basic architectural design principles. Students will design a home from the beginning to end including 2D floor plans, 3D computer drawings and a 3D model. Students will learn to use the google Sketchup software to aid them in this process. Architectural Design is a course designed for those with an interest in the advanced use of technology in the field of construction, engineering, and design. Students will use the most modern computer architectural design software and get hands on experience in the vocational field of construction/architecture.

**Architectural Design II Elective (Grades 9-12) 1 Semester**

Architectural Design II is an upper level design course in which students will master the planning and development of the architectural process. Students will work as a group to plan, design and build a model of their project. Students will master the google Sketchup design software.

Prerequisite: Architectural Design I

**Essentials of Entrepreneurship Elective (Grades 9-12) Full Year**

The course challenges students to recognize, develop, and act upon their potential for creativity, innovation, and entrepreneurship. By being introduced to systematic ways to more effectively find creative solutions to problems, students learn to innovate in their daily lives, and act in an entrepreneurial fashion. Entrepreneurship is approached as a mode of discerning and performing as well as outlook and an activity. Special attention is given to sustainable enterprises that serve society and business. Students are required to maintain a B average or they will be “dropped” for semester 2.

**Entrepreneurship Marketing Elective (Grades 9-12) 1 Semester**

Students will focus on the entrepreneurial mindset of empathy as they develop successful and innovative marketing strategies and branding techniques. Students will actively use print and 21st digital marketing platforms such as social media, video, and the internet.

Students will learn basic business Marketing skills and tools, recognize their ability to problem solve in creative and innovative ways to help market business ventures. As well as integrate the principles identified in scripture for the student’s own academic and professional career.

**Entrepreneurship Finance Elective (Grades 9-12) 1 Semester**

This course will describe how financial information is created and communicated, as well as how it is used for assessment, investigation and appraisal. Using an application approach students will examine the foundational concepts of finance while running a business at LCCS. This will include financial statements, ratio analysis, cash flow, budgeting, and valuation. Students will learn finance through running a business in the school.

**International Foods Elective (Grades 9-12) 1 Semester**

This class encompasses a global picture of the foods around the world. Students study many different countries, looking at geographical and cultural characteristics and how they relate to food. They also discover how the United States has been enriched by the ethnic food contributions of others. They prepare and eat some of the food they study. Students will attain a higher level of understanding and appreciation of other countries’ eating customs and why people eat what they do. They also learn how to prepare and eat some delicious food.

**SAT Prep Elective (Grades 11-12) 1 Semester**

SAT Prep reviews material for the SAT using the College Board Study Guide. The course focuses on review of English material and the different testing formats. Students will take practice tests.

**Shark Tank Elective (Grades 9-12) 1 Semester**

Shark Tank is an elective in the entrepreneurship field. Students in this class will invent a useful item, build a prototype, and market it. This culminates in a competition to find the most marketable product.

**Yearbook Elective (Grades 9-12) Full Year**

Students will gain skills in the following areas: page design, publishing techniques, copywriting, editing, photography, record keeping, time management, teamwork, marketing, and leadership. Students are tasked with producing a timeless, creative, and innovative publication which will record our school’s

community, memories, and events. Being a member requires a commitment with a lot of responsibility, but by the end of the year, students will have produced a piece of history valued by students, employees, and the community.

### **Assisted Learning Courses**

#### **Directed Studies (Grades 7-12) Full Year (Assisted Learning enrollment and fee required.)**

The Directed Studies class is a “for credit” class designed to provide instructional assistance to students who struggle to achieve success in the regular classroom. The class is designed to help students master content area classes, while developing necessary study and organizational skills. Students enrolled in the course are eligible for individualized accommodations.

### **Dual Enrollment / Internships / Work Study**

#### **Dual Enrollment - Colorado Christian University, Grand Canyon University, HACC, Houghton University, Lancaster Bible College, Liberty Online, Millersville University (Grades 11 & 12) additional fee**

LCCS has agreements with the institutions listed above for students to take courses for which they receive both college and high school credit. Students must have approval from the college & career counselor and principal. Contact the College & Career Office for more information.

#### **Online Courses (Grades 9-12) additional fee**

Students may earn high school credits for courses not offered at LCCS or when a student's schedule is unable to accommodate a class. Online courses are 180 hours of instructional time, or 1 hour a day for 5 days a week. A full credit is given when the work is completed and transcripts are sent to LCCS. Prices range from \$425 to \$570 per course. LCCS will accept courses that are taken at both North Star Academy and Seven Star Academy. Online courses should be chosen with the help of the College & Career Office. Students may only enroll in an online course with approval from the principal.

#### **Teacher's Aide (Grades 11 & 12) Application Required**

The Teacher's Aide position is considered an academic relationship between a teacher or LCCS staff member and a student for the purpose of developing godly character in the student and teaching valuable skills; at the same time, this offers needed assistance to the LCCS employee. The student is required to complete tasks in a timely and orderly manner. The student is graded on punctuality, reliability, initiative, attendance, diligence, competency, cooperation, positive attitude, and caring.

#### **Work Study (Grade 12) Administrative Approval Required**

Students who work at least 10 hours per week can apply to leave school early to go to work. The student must sign an agreement with their supervisor and the supervisor will grade the student.

#### **Internship/Ministry Opportunity (Grade 12) Administrative Approval Needed**

Students may use up to two periods a day to participate in pre-approved off-campus internships or ministry opportunities. The student must sign an agreement with their supervisor, complete various assignments, and be assessed by their supervisor.

***\* Some course offerings vary based on student interest and faculty availability. \****