

Liberty Christian High School Bible Course Descriptions

Courses in Bible

Bible 6 – Get Real I (Girls Only)

0.5 Credit

What does it mean to be a woman of God in our world today? What does the Bible say about the way I act, the way I think, the friends I have, the places I go? How does a young woman today be IN the world but not OF it. This class will cover a variety of topics that are of specific interest to girls only. Students will be encouraged to ask tough questions and together they will seek God's answers.

Bible 9 – Getting Real & Living Real

0.5 Credit

We will explore what it means to be real with Jesus, why we need to do so, why would we want to do so, and how we do so in real life. We will also explore how being real with Jesus frees us to be real with people - real about Him, real about ourselves, and real about relationships.

This class includes group discussion, recommended readings (assigned and choices), written reviews of reading and class discussion, journaling, prayer, scripture memory (assigned and choices), and a capstone project.

Bible 12 – Owning My Own Faith

0.5 Credit

Whether you are a new Christian or have grown up in a Christian home, the transition to adulthood often requires one to look at their faith and start to question why they believe what they believe. Is what you know about the Bible and about who Jesus Christ is based on the influence of your parents, a pastor, friends, teachers, etc? Or have you finally started to own your faith.

In this class students will start by learning about how to not just read the Bible but instead study God's word. Students will discuss the importance of taking verse with context to really understand what the bible says. Students will also look at what it means to own your faith in a increasingly difficult world where culture pulls you away from Truth.

Book: "Own It: Leaving Behind a Borrowed Faith" by Michael & Hayley DeMarco and "Counter Culture" by David Platt

Bible 14 – Walk Through the Bible

0.5 Credit

This course will be a closer look at the lives of Mary, David, and Joseph. It will include video lessons, discussions and projects/reflections.

Bible 17 – Practical Christianity**0.5 Credit**

This class was created out of a hybrid of studying the gospel story as found in the Old Testament and Christianity 101. Out of this hybrid a class was evolved to study the gospel as found in the Old Testament and use it as s means to defend the Christian faith. In this class the study of the Old Testament will be treated in the same manner as the Mystery of the Old Testament class with a few additions:

We will watch a debate between Christians and atheists and learn the topics and tactics both sides use in defending their arguments. We will discuss the differences between Mormonism and mainstream (classical or orthodox) Christianity and how to defend the Christian faith. We will discuss the viewpoints of the roles (due to the specific curses) of men and women as discussed in the Bible. We will discuss the nature of God. We will discuss the method of salvation as taught in scripture, the three baptisms (John's, Jesus', The Holy Spirit). We will discuss the viewpoints of Calvinism and Arminianism. We will discuss the difference between absolute truth and subjective truth. We will give a brief outline of eschatology (the study of end-times) timeline. We will discuss the requirements a document needed to be met to be canonized into scripture.

Bible 18 – You Mean the Bible Really Teaches That?**0.5 Credit**

A class designed to explore contemporary topics that students have or will encounter during their lifetime. The topics will be studied, then evaluated and analyzed in respect to Biblical truths. Students will use Exegetical principles to gain understanding of God's truth. Students will gain interpretive skills through various sources including multiple translations for comparative purposes. The Bible will be the definitive source for truth using Scripture in context.

Bible BotB – Books of the Bible**0.5 Credit**

A class designed to explore the books of the Bible, themes, plots, characters, history and other pertinent information related to God's Holy Word. Students will use maps, internet research, group discussion, video, games and other learning methods to gain understanding of God's truth for each book. Students will gain interpretive skills through various sources including multiple handbooks and experts for comparative purposes. The Bible will be the definitive source for truth using Scripture in context.

Bible IT – Identity Theft**0.5 Credit**

When asked the question "Who am I?", our answer is often based on subjective responses such as what we do, what we have experienced, or what our emotional state is. Our identity is so easily stolen by the world around us and leaves us feeling lost when asked this question. Paul uses the term "in Christ" more than 160 times throughout the New Testament. But what does this actually mean? There is no short and simple answer to the question as it involves both great privileges and great responsibilities. This semester we will look at how to answer this question, not with worldly and subjective responses, but with biblical truths about our identity.

Bible SO/SN – Something Old, Something New**0.5 Credit**

This is a discussion-based class. We will explore Genesis-Esther + Daniel (ch1-6) topics with specific emphasis on practical application for our lives today. “For whatever was written in former days was written for our instruction, that through endurance and through the encouragement of the Scriptures we might have hope.” (Romans 15:4 ESV)

Bible REV – Book of Revelation**0.5 Credit**

The Book of Revelation unveils not only the scope of future events but also many mysteries in the Bible itself. What does The Bible have to say to the church? Does God have a plan for Israel? What will happen to the world? Where do I fit into God’s future plan? What is heaven like? What does God’s judgment look like? This class will endeavor to tackle those questions through an in-depth look at the Book given to us by John.

Bible FR -- Freshman Seminar**0.5 Credit**

Freshman Seminar is a course designed to meet the LCS standards of preparing students for “business, leadership and service.” Foundationally the course is based on the CharacterStrong curriculum and Washington state SEL (social and emotional learning) standards. Students will also be introduced to grade level appropriate college and career skills based on the WA state standards of “high school and beyond” skills. Included in the course is the study of current and historical role models, the planning and implementing of service projects, and application of 21st century skills or collaboration, creativity, communication and critical thinking. Students will receive .5 credit, which may be applied to occupational or elective graduation requirements.

Bible SO -- Sophomore Seminar**0.5 Credit**

Sophomore Seminar is a course designed to meet the LCS standards of preparing students for “business, leadership and service.” Foundationally the course is based on the CharacterStrong curriculum and Washington state SEL (social and emotional learning) standards. Students will also be introduced to grade level appropriate college and career skills based on the WA state standards of “high school and beyond” skills. Included in the course is the study of current and historical role models, the planning and implementing of service projects, and application of 21st century skills or collaboration, creativity, communication and critical thinking. Students will receive .5 credit, which may be applied to occupational or elective graduation requirements.

Bible JR - Junior Seminar**0.5 Credit**

Junior Seminar is a course designed to meet the LCS standards of preparing students for “business, leadership and service.” Foundationally the course is based on the CharacterStrong curriculum and Washington state SEL (social and emotional learning) standards. Students will also be introduced to grade level appropriate college and career skills based on the WA state standards of “high school and beyond” skills. Included in the course is the study of current and historical role models, the planning and implementing of service projects, and application of 21st century skills or collaboration, creativity, communication and critical thinking. Students will receive .5 credit, which may be applied to occupational or elective graduation requirements.

Bible SR – Senior Seminar**0.5 Credit**

Senior Seminar is a course designed to meet the LCS standards of preparing students for “business, leadership and service.” Foundationally the course is based on the CharacterStrong curriculum and Washington state SEL (social and emotional learning) standards. Students will also be introduced to grade level appropriate college and career skills based on the WA state standards of “high school and beyond” skills. Included in the course is the study of current and historical role models, the planning and implementing of service projects, and application of 21st century skills or collaboration, creativity, communication and critical thinking. Students will receive .5 credit, which may be applied to occupational or elective graduation requirements.

Liberty Christian High School Career and Technical Education Course Descriptions

Career and Technical Courses

Coding/Creative Technologies in the Classroom

0.5 Credit

Arduino CTC 101 is a modular STEAM program consisting of a toolbox with 26 projects and easy-to-assemble experiments, an online platform, and guided training. The program has 5 modules and introduces students to the foundations of programming and basic coding, Arduino boards and digital signals, analog signals and serial communication, robotics, power systems and motors, wireless communication via Bluetooth and advanced sensors.

Key Learning objectives: Programming Basics, Functions, coordinates, Variables, Data Types, Programming Structure, Serial Communication, Robotics, Electronics, Communication, Mechanics, Digital Inputs/Outputs, Binary System, Programming Loops, Wireless Communication.

College and Career Exploration

0.5 Credit

The apostle Paul encouraged Timothy to "Kindle afresh the gift of God which is in you...." Have you ever wondered WHAT that gift was? This class is an engaging and interactive class designed to help students explore questions about themselves, identify strengths & weaknesses and shape their career aspirations. Students will develop tools and strategies necessary to be successful in both college and/or career paths. This class will include hands on experience with interview techniques; resume writing, interest inventories, aptitude and gifting inventories, applications, etc. Guest speakers, field trips and local business connections will provide further insight into discovering God's future for each individual.

Drafting 1

0.5 Credit

Introduction into drafting and design. The basis will be residential construction but will also include guest speakers from other design fields. Students will complete their work in class utilizing Chief Architect design software. Here is a sample list of items to be covered.

- Construction basics
- File Management
- Wall Layers
- Rough Framing
- Exterior & Interior walls
- Multiple floors and stairs
- Roof styles
- Decks and Porches
- Interior Finishes
- Landscape design
- Foundations

The students will gain knowledge in general construction principles as well as competency in CAD (Computer Aided Design). More information on the design software can be found at www.chiefarchitect.com/academic.

This course can be utilized as a Fine Arts OR a Career/Technical Education credit.

Food Science and Nutrition	0.5 Credit
-----------------------------------	-------------------

In Food Science and Nutrition, students will be looking at proper diet and nutrition, identifying pros and cons to diet fads, exploring diets that are beneficial to specific sports and activity levels, and diets around the world. Students will also have a lab component where they will learn how to make foods of all kinds.

Introduction to Graphic Design	0.5 Credit
---------------------------------------	-------------------

Graphic design is everywhere, from packaging on millions of products, to Facebook and social media memes, e-newsletters, flyers, postcards, logos, websites, product labels, billboards, etc. It's everywhere, whether we realize it or not. We live in a world where people want to see images more than they want to read an article. If the meaning of the article can be conveyed in a Facebook meme, then that's what is shared in social media. A really good design will draw you into purchasing that nifty gadget, sharing a post on Facebook, reading an article, or eating at a particular restaurant.

In essence, you are taking text elements of design and putting them together in one format to create a message, invoke a feeling, promote a product, or induce a reaction (like a call to action).

This course is going to focus on the basics of Graphic Design. In particular, we're going to discuss:

1. The legality of graphic design (things to be aware of)
2. The basics (importance of fonts, colors, white space, logos, and more)
3. The message (what idea you are conveying in the design)
4. The design (setting up the design so that it flows the way it should)
5. The outcome (what you can do as a graphic designer).

This course can be utilized as a Fine Arts OR a Career/Technical Education credit.

Leadership	0.5 Credit
-------------------	-------------------

The Leadership class provides a student an opportunity to identify, study, learn and practice the qualities and characteristics that define good leadership. Emphasis is placed on identifying leadership qualities and learning from the example and words of proven leaders from Scripture as well as the world around us. The students will also be an example of servant leadership through the planning and implementation of various school events and activities for Liberty Christian High School.

Photography**0.5 Credit**

Introduction to photography.

This course can be utilized as a Fine Arts OR a Career/Technical Education credit.

Robotics**0.5 Credit**

In this Elective course, you will learn the basics of Robotics in a step-by-step fashion. You will be given design challenges that will take imagination to solve, both in design and programming techniques. There is no defined end point where we will declare that we have learned all that we can, or that you will have made everything that can be made with the equipment you will be supplied. We will take this course as far as we can in one semester, leaving time at the end for a final Challenge.

Teacher's Aide / Office Assistant**0.5 Credit**

Teacher's aides assist in grading papers, making copies, filing or working with students in lower grades. Office assistants assist the office in making copies, sorting, stapling, filing, running errands within the school, changing the reader board, and other miscellaneous office duties. **May only be taken one year for credit.**

Word Processing**0.5 Credit**

Using a web-based curriculum designed for use in schools, this course will help students develop speed and accuracy in typing skills.

Worship Team**0.5 Credit**

This class is designed for people who have a heart to serve God and others through leading worship in a corporate setting. The goal is to equip students to lead like Jesus: to allow God to use them to do His work in personal disciplines (spiritual & technical), team building, planning, production, and corporate leadership so that people will be invited to personally connect with Jesus and that Jesus would be honored throughout the process.

This course can be utilized as a Fine Arts OR a Career/Technical Education credit.

Yearbook**1.0 Credit**

Students design the yearbook portraying the history of our school. Students explore a variety of methods of keeping records, taking photographs, setting up a yearbook page, cropping photographs, placing digital photographs, writing captions, and preparing pages for submission to the publisher. Students will also write short journalistic articles for pages which require it.

Liberty Christian High School English Course Descriptions

Courses in English

Creative Writing: Prose & Poetry

0.5 Credit

In this semester-long course students will learn fiction techniques to capture stories that arise from their lives and imaginations. Students will explore the basic components of story writing: point of view, voice, tone, description, characterization, dialogue, and plotting. They will explore writing through a variety of exercises to experience different aspects of fiction prose and poetry. Class time will be spent writing, discussing author's craft, and dialoguing about and celebrating each other's work. A writing community will be built where every student's creativity and vision is supported and celebrated.

Foundations of English

1.0 Credit

This year-long course explores the foundational elements of literature, informational text, composition, grammar, English conventions of print, listening, and speaking using literacy-rich activities. At times, the content level of this course may reflect remedial skills instruction in order for students to approach the standards. Students will read a variety of novels, short stories, poems, and articles, focusing on literary analysis and writer's craft study. Writing will consist of four discourse studies: narrative, informational, argument, and multigenre. The ultimate goal of this course is to empower all students to live literate lives.

Fundamentals of Literature and Composition

1.0 Credit

This course addresses literary analysis including conflict, character, theme, structure, point of view, and other important literary elements. A rich variety of short stories, poems, essays, and plays including a good balance of serious and humorous pieces from the greatest writers of America, England, and Europe are used to explore these fundamentals. Several novels from classical writers are read during the year. Emphasis is expressed concerning grammar, writing, Vocabulary and spelling skills throughout the year.

CC English and Composition

1.0 Credit

This course is designed to develop college-level writing skills in students and to stimulate them to think critically, express themselves clearly, and develop an appreciation for the medium of language through a variety of writing and reading experiences. For the course to count for NNU General Requirements, a student must earn a grade of C or better.

CC Literature: American Literature/CC Short Fiction

0.5 Credit

This course is a two-semester course combining American Literature and selected short stories.

The American Literature course will reveal the uniqueness of American Literature as a newly discovered and settled country examining how it has changed from its beginning. Students will read a variety of

short stories, essays, poetry, and novels, practicing fundamental skills of analysis. They will also utilize grammar and vocabulary as they write and give oral presentations of that analysis.

The short fiction class introduces students to literary analysis at the University level through the short story. They will examine plot, character, style, symbolism and sophisticated themes through reading, discussion and essays. Students will gain understanding through close reading, literary analysis and critical essays. This course will be offered as a 3-credit university level course or for audit if desired.

For the course to count for NNU General Requirements, a student must earn a grade of C or better.

Speech and Debate	0.5 Credit
--------------------------	-------------------

Speech and Debate is a fun and challenging semester-long course in which students will stretch themselves, develop listening skills, think deeply on important issues, and become better orators and communicators. In class students will gain thinking, writing, speaking, and debating skills and apply them to storytelling, sharing personal testimonies, presenting (persuasive, informative, devotional, and impromptu), interviewing, and debating. Upon completion of this course, students will be better-prepared communicators for higher education, business, ministry, and life as a global ambassador for Christ.

World Literature	1.0 Credit
-------------------------	-------------------

This course consists of reading a variety of classical literature, review of grammar and vocabulary; concentrating on the refining of writing and analytical skills. Writing will focus on literary elements and analysis including the classical argumentative paper and a literary analysis research paper. The goal is to prepare students to be able to read and write at a level that will be expected in college.

Liberty Christian High School Fine Arts Course Descriptions

Fine Art Elective Courses

Art 1 & 2

0.5 Credit

During the first semester, terminologies, drawing, color, pen and ink, charcoal, watercolors, and acrylic paint will be explored. Students will learn to express terminologies using several different mediums. They will use the mediums listed to demonstrate still life, landscapes, portraits, abstracts, and cartooning.

Second semester art class students will use oil paint to copy an established artist's painting, as well as create their own. They will use paper mache and cardboard to create a pot, and paper mache clay to form an animal. If time permits, craft or other projects will be offered.

Each semester, students will submit a sketch book with twenty drawings, ten of which will be Biblically based.

Band

1.0 Credit

This is a performance-based class in which students have the opportunity to grow as musicians while worshipping God. Band students will further their musical skills and knowledge while cultivating commitment, teamwork and leadership. Participation in group performances is required, as is weekly individual practice. Opportunities for individual performances will also be made available.

Drafting

0.5 Credit

Introduction into drafting and design. The basis will be residential construction but will also include guest speakers from other design fields. Students will complete their work in class utilizing Chief Architect design software. Here is a sample list of items to be covered.

- Construction basics
- File Management
- Wall Layers
- Rough Framing
- Exterior & Interior walls
- Multiple floors and stairs
- Roof styles
- Decks and Porches
- Interior Finishes
- Landscape design
- Foundations

The students will gain knowledge in general construction principles as well as competency in CAD (Computer Aided Design). More information on the design software can be found at www.chiefarchitect.com/academic.

This course can be utilized as a Fine Arts OR a Career/Technical Education credit.

Drama**0.5 Credit**

In the fall, students will rehearse and perform in the annual school Christmas musical in partnership with the Liberty Christian Elementary Music Drama Club. In the spring, students will hone their drama skills and perform a spring show in a variety of venues such as the Middle School Showcase or a chapel service.

History of American Cinema**0.5 Credit**

This course traces the origin and development of cinema in America over the past century. Students will study the connection of our nation's major historical events with various Hollywood films from a variety of these time periods. They will analyze these films that have reflected and influenced our culture as works of art as primary historical sources, and learn the history of American cinema

This course can be utilized as a Fine Arts OR a Social Science credit.

Introduction to Graphic Design**0.5 Credit**

Graphic design is everywhere, from packaging on millions of products, to Facebook and social media memes, e-newsletters, flyers, postcards, logos, websites, product labels, billboards, etc. It's everywhere, whether we realize it or not. We live in a world where people want to see images more than they want to read an article. If the meaning of the article can be conveyed in a Facebook meme, then that's what is shared in social media. A really good design will draw you into purchasing that nifty gadget, sharing a post on Facebook, reading an article, or eating at a particular restaurant.

In essence, you are taking text elements of design and putting them together in one format to create a message, invoke a feeling, promote a product, or induce a reaction (like a call to action).

This course is going to focus on the basics of Graphic Design. In particular, we're going to discuss:

6. The legality of graphic design (things to be aware of)
7. The basics (importance of fonts, colors, white space, logos, and more)
8. The message (what idea you are conveying in the design)
9. The design (setting up the design so that it flows the way it should)
10. The outcome (what you can do as a graphic designer).

This course can be utilized as a Fine Arts OR a Career/Technical Education credit.

Marimba Band**0.5 Credit**

Marimba band is a fine arts elective offered to all high school students. Students learn advanced marimba band music taught in the tradition of the Zimbabwean-Shona marimba bands of West Africa. This is a performance-based course, with ensemble skills being at the heart of the learning process. This group performs through the Tri-Cities community. No previous music experience required.

Music Appreciation 1 & 2**0.5 Credit**

This class is designed to foster understanding and enjoyment of music as a unique gift of God, through which we can praise Him. The class is made up of several short units on diverse musical topics, some of which are extremely “hands on” and some more “academic” in nature. Topics may include but are not limited to: how to read music, percussion, songwriting, music and our brains, piano, history of music, musicals, and music in the church.

Photography**0.5 Credit**

Digital Photography is a semester long course that focuses on understanding the basic operations and functions of a digital single lens reflex (DSLR) camera and the manipulation of its settings to achieve a specific result. Students will learn about photographic elements of art and principles of design, composition, and lighting. Students will write and speak about aesthetic and expressive qualities in a photograph, learning to critique their own and others work. Students learn image techniques and digital manipulation using Adobe Photoshop Elements and posting to Weebly Blogpost, teaching them how to archive, organize and optimize their photographs for print or web purposes. Students will learn how to manage and creatively alter digital images as well as critically analyze the use of visual media as a means of communication in our society today. Students will explore the idea of creating their own photography business and all that would entail. They will set prices, brainstorm marketing plans and choose what kind of photography they would offer. With each project, there is an opportunity to display and present their completed task to the rest of the class.

This course can be utilized as a Fine Arts OR a Career/Technical Education credit.

Worship Team**0.5 Credit**

This class is designed for people who have a heart to serve God and others through leading worship in a corporate setting. The goal is to equip students to lead like Jesus: to allow God to use them to do His work in personal disciplines (spiritual & technical), team building, planning, production, and corporate leadership so that people will be invited to personally connect with Jesus and that Jesus would be honored throughout the process.

This course can be utilized as a Fine Arts OR a Career/Technical Education credit.

Yearbook**1.0 Credit**

Students design the yearbook portraying the history of our school. Students explore a variety of methods of keeping records, taking photographs, setting up a yearbook page, cropping photographs, placing digital photographs, writing captions, and preparing pages for submission to the publisher. Students will also write short journalistic articles for pages which require it.

This course can be utilized as a Fine Arts OR a Career/Technical Education credit.

Liberty Christian High School Foreign Language Course Descriptions

Courses in Foreign Language

Spanish I

1.0 Credit

This course covers the basics of the Spanish language, especially as it is spoken in Latin America. The student should be able to meet basic survival needs and courtesy requirements, such as greetings, asking and answering simple questions and giving name and age. They will learn to perform functions such as ordering a meal, making purchases, following directions, and creating small talk about family, church, sports and school. The students will be able to relate events in present tense, future tenses, and to an extent, express preterite tense. They will be taught gender, number and subject-verb agreement. A unit is taught to enable students to give their personal testimony that can be used on mission trips.

Spanish II

1.0 Credit

PREREQUISITE: Completion of Spanish I with C or higher

This course covers and reviews many concepts taught in Spanish 1 before introducing new material. It continues to focus on practical functions and teaches grammar to improve communication. Units include transportation, medical, hotel, store, and restaurant themes more verb tenses are taught to enhance flexibility or in communication including imperfect, imperative, future, present, past, perfect, conditional with written and oral communication.

Liberty Christian High School Health and Fitness Course Descriptions

Courses in Health & Fitness

Health Education

0.5 Credit

This course explores the concept of “Total Health.” It strives to provide the student with a knowledge of God as their creator and the realization that wellness is a result of emotional, physical, mental, spiritual, and social health. We will discuss how the Bible addresses each of these issues and how the choices they are making concerning these issues now can dramatically affect their future.

HS Physical Education

0.5 Credit

Physical Education is taught at Liberty Christian School as an essential component in a ‘whole person’ curriculum. It is our intent that each student be well-rounded and continue to increase in ‘wisdom and stature, and in favor with God and men (Luke 2:52) as modeled by our Savior Jesus Christ. Scripture indicates that there is value in bodily exercise (1 Timothy 4:8) and that our bodies are the temple of the Holy Spirit which lives in us (1 Corinthians 6:19-20). Therefore, we are to honor God with our bodies, serving Him as intended by our creation. We teach students the joy and benefit of healthy physical activity. Physical Education will serve as a bridge for development of mind, body, and soul. Students will be introduced to a variety of activities that aim towards improving flexibility, mobility, strength, coordination and sportsmanship.

Strength and Conditioning/Weights

0.5 Credit

This course is designed for both the student brand new to the weight room as well as the student whose parents own a home gym. Throughout the duration of this course students will learn: how to properly execute various strength and conditioning movements; weight room etiquette and safety; various types of training plans and programs; proper nutrition to achieve athletic or lifestyle goals; important steps for injury prevention and recovery; and various additional aspects of strength training and aerobic conditioning.

Liberty Christian High School Math Course Descriptions

Courses in Mathematics

There are three sequences of mathematics classes as shown in the following mathematics sequence table (3rd track update coming soon). Both provide the necessary course work to prepare for the Scholastic Assessment Test (SAT) that is normally taken at the end of the junior year.

Math Classes Tracks

9	Geometry			Algebra 1			
10	Algebra 2			Geometry			
11	Pre-Calculus		Financial Algebra	Algebra 2		Financial Algebra	
12	Financial Algebra	AP Calculus	Pre-Calculus	Pre-Calculus	Financial Algebra	Algebra 2	∅ *

Notes:

*Seniors have the option to not take a math if they are taking a science class employing Algebra 2 concepts (Washington State Universities require a math or math related science class to be taken senior year).

A minimum of three years of mathematics study is required to obtain a high school diploma from LCS. Many colleges have entrance requirements of three years of mathematics study in the areas of Algebra I, Geometry, and Algebra II PLUS a fourth year of an Algebra 2 based quantitative course. Courses offered in mathematics are the following:

Integrated Math 1

1.0 Credit

PREREQUISITE: Pre-Algebra

Course description coming soon.

Algebra 1

1.0 Credit

PREREQUISITE: Pre-Algebra

You will learn to reason symbolically in this first year algebra course. The key content involves writing, solving, and graphing linear and quadratic equations, including systems of two linear equations in two unknowns. Quadratic equations are solved by factoring, completing the square, graphically, or by application of the quadratic formula. The course also includes study of monomial and polynomial expressions, inequalities, exponents, functions, rational expressions, ratio, and proportion. Students will apply Algebraic skills in a wide variety of problem-solving situations.

Integrated Math 2**1.0 Credit****PREREQUISITE: Integrated Math 1**

Course description coming soon.

Geometry**1.0 Credit****PREREQUISITE: B or higher in Algebra 1 or successful completion of Geometry**

This course is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions. It includes the study of transformations and right triangle trigonometry. Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed. It also emphasizes writing proofs to solve (prove) properties of geometric figures.

Algebra 2**1.0 Credit****PREREQUISITE: B or higher in Algebra 1 or successful completion of Geometry**

This course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, and concepts and includes the study of trigonometric functions. It also introduces matrices and their properties. The content of this course are important for students' success on both the ACT and SAT.

Pre-Calculus**1.0 Credit****PREREQUISITE: C or higher in Algebra 2**

This course is designed to provide a comprehensive study of functions, which are the basis of calculus and other high mathematics courses. Topics such as functions, families of graphs, logarithms, trigonometric functions and identities, systems of equations and inequalities, conic sections, limits, and basic derivative are studied. This class takes in everything that the students have already learned previously in their math classes and builds the foundation needed for understanding and application of Calculus.

AP Calculus**1.0 Credit****PREREQUISITE: B- or higher in Pre-Calculus**

This class is designed for prospective mathematics majors and students interested in engineering, computer science, physics, business, or the life sciences. Following a condensed, intensive review of the algebra, trigonometry, and analytic geometry necessary for success in calculus, the lessons cover topics in the syllabus for the College Board's Advanced Placement (AP) program for calculus.

Students may receive college credit by taking either the AB Advanced Placement Exam (covers 2 college quarters) or the BC Advanced Placement exam (covers 3 college quarters). The exam is given in May.

Financial Algebra**1.0 Credit****PREREQUISITE: Algebra 1**

In this class, students will practice algebra and geometric mathematics using financial business applications. Specific areas that will be covered includes the decision making process, financial aspects of career planning, financial management, income analysis, budgeting techniques, savings and investment strategies in order to meet short and long term goals, evaluation of services offered by financial institutions, managing credit cards and debt, risk analysis, fraud and financial loss. Students will learn work readiness skills to prepare them for career and college. This class meets the third year math requirement for students choosing to complete a career and technical education math.

Liberty Christian High School Science Course Descriptions

Courses in Science

BCCP (Basic Concepts of Chemistry and Physics)

1.0 Credit

***Lab Course**

A grounding in basic principles of chemistry and physics. Topics include metric units & measurements, properties & classification of matter, nuclear chemistry, atoms, the periodic table, chemical bonding, chemical formulas & equations, reaction types, solution chemistry, energy & momentum, mechanics (motion), work, heat, electricity, magnetism, sound waves, and properties of light. This course satisfies 1 of the 3 lab science graduation requirements and prepares students for entry into Biology and CC Introductory Chemistry.

Biology

1.0 Credit

PREREQUISITES: Grade of B or higher in Earth Science if taking in 9th grade.

***Lab course**

Instruction in botany, genetics, cell biology, human anatomy, invertebrate and vertebrate anatomy, and physiology is provided. An understanding of the evidence presented for evolution and creation will be woven into the course throughout the school year. Students will be encouraged to solidify their belief in creation and will be prepared to answer questions posed to them related to evolution. Class format will include lectures, speakers, discussions, hands-on activities, dissections, and a short field trip.

CC Introduction to Chemistry

1.0 Credit

PREREQUISITE: Completion of or current enrollment in Algebra II; permission required if grade is less than a B in Algebra I.

***Lab course**

The focus of this course will be on major algebra-based principles of general chemistry including atoms, nomenclature, molecular structure, bonding, and stoichiometry. Completion of this course serves as a prerequisite for enrollment in CC Advance Chemistry. This course may also be taken for one semester of Concurrent Credit through NNU.

CC Advanced Chemistry**1.0 Credit****PREREQUISITE: Intro. to Chemistry *required* with at least a B grade. Prior or current enrollment in Precalculus required.*****Lab course**

This is an in-depth algebra-based survey of the principles underlying chemistry, including solutions, acids/bases, solubility, thermodynamics, kinetics, and electrochemistry. Emphasis is placed on a quantitative understanding of chemical phenomena. An in-depth survey of the principles underlying chemistry including atomic structure, period table and laws, bonding, chemical reactions, stoichiometry, states of matter, pH, nuclear and industrial chemistry. This course may also be taken for two semesters of Concurrent Credit through NNU.

Marine Science**0.5 Credit*****Lab Course**

Marine Science is a lab science course that is one semester in length. In this course, students will gain an appreciation for God's creativity in the biodiversity we observe in the ocean.

Marine Science will provide a foundation in oceanography and marine biology. The science of understanding Earth's oceans integrates basic scientific concepts and principles of geography, geology, chemistry, physics and biology. Lesson topics include ocean exploration, plate tectonics, distribution of sediments, properties of seawater, ocean currents and tides, marine ecology, organisms, habitats and environmental issues.

Environmental Science**0.5 Credit*****Lab Course**

Environmental Science is a lab science course that is one semester in length. Environmental Science will provide a foundation in the ecological principals behind studying the environment and solving environmental problems. Topics of study include matter and energy cycles in the biosphere, ecosystem structure and change, climate change, population growth, human population growth, population sampling, natural resources (air, water, and land use and management), pollution, toxicology, renewable and nonrenewable energy sources, and managing human impact on the environment. Extra attention is given to environmental topics related to the ocean and an understanding of mankind's responsibility to take care of His creation.

Physics**1.0 Credit****PREREQUISITE: Completion of Algebra II required; prior or current enrollment in Precalculus required; permission required if grade is less than a B in Algebra 2.*****Lab course**

Year-long algebra-based elective course designed to study the physical laws of universe including: Newtonian mechanics, fluid mechanics, thermodynamics, electricity, waves and optics, vectors and scalars. Problem solving and experimentation will supplement the curriculum.

*Note: The state of Washington requires that each student complete three years of science to meet the high school graduation requirements. An algebra-based science course may meet state mathematics requirements for seniors not enrolled in a mathematics course.

Physics of Fitness**0.5 Credit*****Lab Course**

In Physics of Fitness, students will build a skillset beyond the normal perception of fitness and analyze the how and why behind our bodies' movements. God created the human body with perfect design and movement patterns. This class aims to chase an understanding of that creation. Students will learn basic muscular, nervous and skeletal anatomy, force production, acceleration, deceleration, biomechanics and lever systems.

After successfully completing this course, students will understand:

- The uniqueness and intricacies of God's creation of the human body
- How the body produces movement and force
- Anatomy and physiology of muscular, skeletal and nervous systems

Liberty Christian High School Social Science Course Descriptions

Courses in Social Studies

Civics & Government

0.5 Credit

The course is designed to acquaint students with the origins, concepts, organization and policies of the United States government at the local, state, and federal level. Students will study the foundations of American government, its institutions, systems and processes. Emphasis will be placed on understanding the Constitution, its three branches and their relationship to one another. Further emphasis will be to identify Christian perspectives on political ideologies and appropriate applications.

History of Cinema

0.5 Credit

This course traces the origin and development of cinema in America over the past century. Students will study the connection of our nation's major historical events with various Hollywood films from a variety of these time periods. They will analyze these films that have reflected and influenced our culture as works of art as primary historical sources, and learn the history of American cinema.

This course can be utilized as a Fine Arts OR a Social Science credit.

United States History

1.0 Credit

This course provides students with an understanding of United States history from the birth of the nation to contemporary America. Particular attention is given to the Christian heritage and influence in the United States and the effects on American culture and society. Students learn what freedom encompasses from a Christian and American perspective. A Christian perspective on rights, liberty, patriotism, and responsibility is emphasized. The focus will be on the ideas and concepts which distinguish America from the rest of the world as well as the key events which shaped them.

World Geography & History

1.0 Credit

This course is a survey course of events and locations that have shaped our modern world. Topics covered will range from the ancient to modern times, and look at various countries/regions throughout history. The study is organized by continents and/or regions.

World Problems

0.5 Credit

World Problems is a course devoted to studying, understanding and the applying of possible solutions as they relate to the domestic and international issues of today. Students will study various issues that impact our world today and use Christian principles and perspectives in determining a citizen's response. Specific topics to explore will be developed in conjunction with the students according to their interests and needs.