



Book List & Class Descriptions

9th - 12th Grades

Students may take any classes - no minimum requirements

This is the place to find all the books you need for classes at OliveTree for 2022-2023!
Books can be purchased from local retailers: Probascos and Salt & Light in Loveland.

Please be mindful to purchase book editions as listed

**Please check the Schedule and Enrollment Form
for current year class offerings.**

OliveTree is registered with Amazon Smile. When you shop, Amazon donates to OliveTree.
Click here to learn more: <https://smile.amazon.com/ch/35-2238524>

**OliveTree reserves the right to cancel classes if minimum enrollment is not met*

MATH: Algebra 1 – Geometry - Algebra 2 - Pre-Calculus

ALGEBRA 1

Book to purchase: MATH U SEE Algebra 1 Level Up Base Set (includes all materials for parent and student)

<https://store.demmelearning.com/algebra-1-level-up-base-set.html>

Pre-Algebra is a pre-requisite.

Graphing, simultaneous equations, exponents, polynomials, unit multipliers, and more.

Please ensure your student is ready for Algebra 1 by taking this placement test (copy URL and paste in your browser) <http://mathusee.com/placement/assessments/algebra-1-placement-assessment/> Students who are ready for Algebra 1:

Proficiently add, subtract, multiply, and divide whole numbers, fractions, mixed numbers, and decimals; Convert between a fraction, decimal, and percent; Solve one-step equations; Plot points on a number line and coordinate grid; Perform operations with integers; Write an algebraic expression to solve a word problem.

GEOMETRY

Book to purchase: MATH U SEE Geometry Universal Set (includes instruction materials w/ answers & student pack) <https://store.demmelearning.com/geometry-universal-set.html>

Algebra 1 is highly recommended as a pre-requisite.

Points, lines, planes, angles, circles, triangles, quadrilaterals, Pythagorean Theorem, conic sections, proofs and more. Please ensure your student is ready for Geometry by taking this placement test (copy URL and paste in your browser). <http://mathusee.com/placement/assessments/geometry-placement-assessment>

ALGEBRA 2

Book to purchase: MATH U SEE Algebra 2 Universal Set (includes instruction materials w/answers & student pack) <https://store.demmelearning.com/algebra-2-universal-set.html>

Algebra 1 is a pre-requisite. Geometry is recommended.

Factoring polynomials, quadratic formula, graphing conic sections and other Algebra 2 topics. Please ensure your student is ready for Algebra 2 by taking this placement test (copy URL and paste in your browser).

<http://mathusee.com/placement/assessments/algebra-2-placement-assessment>

PRE-CALCULUS

Book to purchase: MATH U SEE Pre-Calculus Student Pack (contains Student Workbook and Tests). <https://store.demmelearning.com/math-u-see/secondary-math/precalculus>

Algebra 2 is a pre-requisite.

Trigonometry, identities, polar equations, logarithms, sequences, limits and other topics that prepare students for Calculus. Students will need a protractor, ruler, and scientific calculator that can calculate square roots, trigonometric functions, logarithms, and natural log.

SCIENCE WITH LABS: Biology - Chemistry - Physics

BIOLOGY

www.bereanbuilders.com

Book to purchase: *Apologia Exploring Creation with Biology - 2nd edition* ISBN 978-1-932012-54-5

Book to purchase: *Solutions and Tests* ISBN 978-1-932012-55-2

No pre-requisite. This course features an introduction to the study of living things. The chemistry of life, cell structures and processes, cellular reproduction, genetics, ecosystems, and creation vs. evolution. The five major kingdoms are studied individually. The experiments include dissections with high quality microscopes and dissection kits. This award-winning, college-prep biology course provides the student with a solid background in biology which is presented in a readable, conversational tone, taught from a Christian worldview.

CHEMISTRY

www.bereanbuilders.com

Book to purchase: *Discovering Design with Chemistry (formerly Apologia)* ISBN 978-0-9962784-6-1

Book to purchase: *Answer Key and Tests* ISBN 978-0-9962784-7-8

Pre-requisite: Algebra 1.

This course covers fundamental aspects of chemistry such as the classification of matter, atomic structure, spectroscopy, chemical bonding, molecular geometry, physical change, chemical change, stoichiometry, solutions, ideal gases, acid/base chemistry, reduction/oxidation reactions, thermochemistry, thermodynamics, kinetics, and chemical equilibrium. Weaving together concepts and their mathematical applications, the course teaches students how to think as a chemist, so they can analyze the major changes that occur in matter. Throughout the course, the student is shown how chemistry reveals the amazing design that exists all around us. From the details of atomic structure to the makeup of the very air that we breathe, chemistry shows us the marvelous handiwork of God.

Student Notebook: Free worksheets on downloads tab

Instructional Video: Free, see introduction to book for access

PHYSICS

www.bereanbuilders.com

Book to purchase: *Apologia Exploring Creation with Physics -2nd edition* ISBN 978-1-932012-42-2

Book to purchase: *Solutions and Tests* ISBN 978-1-932012-43-9

Pre-requisite: Algebra and an introduction to the definitions of sine, cosine, and tangent.

This course provides an intro to the methods and concepts of general physics, teacher emphasizes experiential understanding of concepts. It provides the student with a background in units, measurement, one and two-dimensional motion, Newton's laws and their application, gravity, work & energy, momentum, periodic motion, waves, optics, electrostatics, electrodynamics, electrical circuits, and magnetism.

LITERATURE: Fundamentals - Classic - American - British

All Literature classes include writing elements.

Reading and writing are fundamental skills that most high school students are not learning well.

These classes prepare your student for college and beyond.

FUNDAMENTALS OF LITERATURE (bjupress.com BJU #259960)

Book: BJU Fundamentals of Literature 2nd edition

ISBN 978-1-62856-436-5

No pre-requisite. Designed to be the student's first high school literature class, Fundamentals of Literature presents the foundational elements for literary analysis. Covering the topics of conflict, character development, point of view, plot, theme, tone. This course provides excellent practice in examining fiction and non-fiction works under the light of a biblical framework. Weekly assignments involve selected readings and discussion questions as well as writing practice on the various topics listed above.

ELEMENTS OF CLASSIC LITERATURE (bjupress.com BJU#517029)

Book: BJU Elements of Literature 2nd edition

ISBN 978-1-62856-565-2

No pre-requisite but Fundamentals is recommended. Elements of Literature broadens students' understanding of literature by focusing on advanced literary concepts. Students will learn the method and the importance of literary analysis by studying pieces from several genres and interpreting them in light of biblical truth. The textbook promotes critical thinking skills as key to understanding and appreciating literature. Also, a visual analysis section found at the beginning of each unit relates the unit's topic with the visual arts.

AMERICAN LITERATURE (bjupress.com BJU #520296)

Book to purchase: BJU American Literature (3rd edition)

ISBN 978-1-60682-733-8

No pre-requisite but Fundamentals is recommended. American Literature Student Text (3rd ed.) contains introductory essays for each unit providing an overview of the cultural and historical events and ideas influencing each literary period. The instruction for the literature selections is structured around the reading process approach. Students will improve close-reading skills with questions during reading that focus on the three strands of study: Analyze, Read, and Evaluate. Students will have a chance to critically assess the original writings using a biblical framework. This course provides an excellent companion study to American History

BRITISH LITERATURE/MOVIES AS LITERATURE

Book: Some works will be found online. Other texts available to purchase from OT.

No pre-requisite but Fundamentals is recommended. This course is designed to give students a more in-depth look at classic works of British Literature. Instead of focusing on excerpts of numerous authors, we will be concentrating on a few authors and reading pieces of works in their entirety. We will cover short stories, historical fiction, plays, and poetry. Students will be expected to complete weekly reading assignments, participate in class discussions on elements such a theme, motifs, symbolism, and character. Grades will be based on weekly class discussions, weekly quotes, reading response journals, as well as worksheets, quizzes, and tests. An oral presentation will be assigned in the Fall and a final analysis paper will be due in the Spring.

HISTORY: Cultural Geography - World History - American History – Gov/Econ

CULTURAL GEOGRAPHY (bjupress.com BJU# 515825)

Book to purchase: BJU Cultural Geography 9 -4th edition

ISBN 978-1-60682-499-3

No pre-requisite. Designed to be the student's first high school History class (9th grade), Cultural Geography involves a survey of the world with its variety of nations, cultures and physical features. This Cultural Geography curriculum is written to help students become informed citizens and empowered participants in society. The curriculum teaches cultural geography from a biblical perspective and will encourage your students to appreciate the diversity of people, cultures, and landforms. It also aims to develop critical-thinking skills and demonstrates how knowledge of cultural geography is essential to understanding people from different nations and cultures. During the two-semester course, students study the seven continents and the people who live on them.

WORLD HISTORY (bjupress.com BJU# 512293)

Book: BJU World History – 5th edition

ISBN 978-1-62856-344-3

No pre-requisite but Cultural Geography is recommended. World History guides students through the story of history, starting with creation and continuing to the present. Students will analyze five key themes throughout history from a biblical perspective: justice, power, citizenship, environment, and world religions. As they trace the major patterns in world history, they will see how those themes point more and more clearly to the triumph of the kingdom of God. Quizzes and Presentations for assessments.

AMERICAN HISTORY (bjupress.com)

Book: BJU United States History – 5th edition BJU #505776

ISBN 978-1-62856-207-1

No pre-requisite but Cultural Geography is recommended.

United States History (5th Edition) Student Text takes the student on a journey beginning with European contact with American Indians and ending with the inauguration of Donald Trump. Along the journey, the course highlights major historical events that have shaped American history, inviting students to discuss the ramifications of these events on society today.

GOVERNMENT & ECONOMICS (bjupress.com BJU# 513523 and 517086)

Book: BJU Government – 4th edition

Student Text ISBN 978-1-62856-424-2

Book: BJU Economics- 3rd edition

Student Text ISBN 978-1-60682-877-9

Book: Whatever Happened to Penny Candy 7th edition

ISBN 978-0-942617-64-1

No Pre-requisite but Cultural Geography is recommended.

Government: Explore God's original authority structure, His plan for governing mankind, and the Founding Fathers unique composition of our Constitution. Students will study our federal government down through our state and local areas, they will acquire an understanding of the challenges of our modern political system, and their responsibilities as citizens. Students should leave this class with a deep appreciation for the American system of government and why they should be involved.

Economics: Teaches basic ideas crucial to understanding economic principles in a free market system. Under a biblical perspective, students will learn about inflation, trade-offs, supply and demand, the problems of debt, the influence of government and politics on the economy. Students will have the ability to understand the causes behind the volatility seen in today's global economy.

ELECTIVES: Spanish - NT Survey - Art - Speech

SPANISH 1 (*bjupress.com* BJU# 500231 and 500736)

Book: *BJU Spanish 1, 3rd edition*

Student Text ISBN 978-1-60682-937-0

Book: *BJU Spanish 1 Activities Manual 3rd edition*

ISBN 978-1-60682-970-0

Spanish 1 (3rd Edition) Student Text takes an innovative and engaging approach to help students not only learn about Spanish but learn to communicate at a novice-high level. All chapters present vocabulary and grammar within the context of the theme. Cultural studies infuse the text from the artwork down to the activities, with a heavy focus on developing a biblical worldview. ***e textbooks available see bju.com***

SPANISH 2 (*bjupress.com* BJU# 517730 and 517748)

Book: *BJU Spanish 2, 3rd edition*

Student Text ISBN 978-1-62856-618-5

Book: *BJU Spanish 2 Activities Manual 3rd edition*

Student Text ISBN 978-1-62856-620-8

e textbooks available see bjupress.com

Spanish 2 (3rd Edition) is all new this year! Chapters present vocabulary and grammar concepts thematically in the context of the character's surroundings. Activities are communicative and meaning-based and incorporate substantial review at the beginning. Culture permeates the book, from the storyline to the artwork to the activities. We encourage students to formulate a biblical worldview of history, culture, and religion through the text, artwork, and activities.

NEW TESTAMENT SURVEY

Book: *A Popular Survey of the New Testament, Norm Geisler*

Student Text ISBN 978-0-8010-1299-0

Book: *Survey of the New Testament, Paul Benware*

Student Text ISBN 0-8024-2092-3

In the tumultuous and bewildering world in which we live, the believer is ever in need of the correction, instruction, and guidance, of God's sure Word. In order to live lives that honor the Savior we love, we need to do our best to understand the Bible. Young people especially need to establish a comprehension of Scripture that can serve as a solid foundation for life. In this course, we will narrow our focus from the Bible as a whole, to the New Testament specifically. Students will be expected to read through the entire New Testament over 4 semesters (2 years). In class, we will consider the background, the authorship and readership, the time and place of writing, as well as an investigation of the structure, and an overview of the content of each Book of the New Testament. This is all designed to equip the student with comfort and confidence in utilizing God's Word. The course is not designed to focus on the doctrinal elements or theological arguments. Those matters we reserve for parents and pastors.

HIGH SCHOOL ART CLASS

Teacher will email a supply list

In this class students will be using a variety of different mediums and will learn art principles tips and techniques. Projects may include pencil drawing (shading, measuring, etc.), color theory, perspective, portraits, sculpture, composition, graphic design and more.

SPEECH CLASS is now offered through the Ft. Collins Homeschool Gavel Club. Cost is \$13.00

www.homeschoolgavelclub.wordpress.com