



## **Book List & Class Descriptions**

### **9<sup>th</sup> - 12<sup>th</sup> Grades**

**There are no minimum class requirements, students may take one class, or as many classes as needed.**

This is the place to find all the books you need for classes at OliveTree!  
*Books can be purchased from local retailers: Probasco's Christian Book Store in Loveland or Salt & Light Learning used books online or other online retailers.*

***Please be mindful to purchase book editions as listed.***

***Students must have books on the first day of class.***

**Please check the Schedule for class times.**

*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 - note new edition!

### **Book to purchase -**

**Required: MATH U SEE Algebra 1: Principles of Secondary Mathematics Student Pack**

(Student workbook & tests only) <https://store.demmelearning.com/algebra-1-psm-student-pack.html>

**Suggested: Universal set** (Student materials and digital access to teaching materials and answers)

<https://store.demmelearning.com/algebra-1-psm-universal-set.html>

**Pre-requisite: Pre-Algebra** This class is the foundation for all higher math; therefore, it is the most important math class your student will take. **This Algebra course is broader and starts at a higher level than the previous material which will require students to be proficient in all topics covered in Pre-Algebra and have a strong ability to work with fractions. To ensure your student is ready for Algebra 1, students should work through the readiness and bridge materials (determines placement) on the Math U See website:**

[https://demmelearning.com/wp-content/uploads/2022/10/A1\\_PSM\\_Readiness-Materials\\_10-26-22.pdf](https://demmelearning.com/wp-content/uploads/2022/10/A1_PSM_Readiness-Materials_10-26-22.pdf)

Some of the skills needed to start Algebra include: 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, fractions and exponents; Write an algebraic expression to solve a word problem.

## GEOMETRY

**Book to purchase - Required: MATH U SEE Geometry Student Pack** (Student workbook & Tests):

<https://store.demmelearning.com/geometry-student-pack.html>

**Suggested: Geometry Digital Pack** (Student materials, digital access to teaching materials, answers)

**Pre-requisite: Algebra 1 is highly recommended**

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 – Required: MATH U SEE Algebra 2 Student Pack** (Student workbook & Tests):

<https://store.demmelearning.com/algebra-2-student-pack.html>

**Suggested: Algebra 2 Digital Pack** (Student materials, digital access to teaching materials, answers)

**Pre-requisite: Algebra 1, 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 – Required: MATH U SEE Pre-Calculus Student Pack** (Student workbook & Tests)

<https://store.demmelearning.com/precalculus-student-pack.html>

**Pre-requisites: Geometry and Algebra 2** Trigonometry, identities, polar equations, functions, inverses, relations, graphing (Cartesian and polar), 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 note new edition!**

**Book to purchase: *Discovering Design with Biology (formerly Apologia)***

**ISBN 979-8-9852529-5-8**

**Book to purchase: *Answer Key and Tests***

**ISBN 979-8-9852529-5-8**

[www.bereanbuilders.com](http://www.bereanbuilders.com) (for more info about the book, also see [Rainbowresource.com](http://Rainbowresource.com))

**Pre-requisite: None.** A laboratory-based high school biology course is the first science course a college-bound student should take. It gives the student an introduction to how living organisms are designed, how they interact with one another, and how they interact with their physical environment. Students are taught how biologists classify life, the chemical processes that make life possible, the structures of RNA and DNA, and the designs of the different cells found in living organisms. Throughout the course, students see that life is the result of design and that organisms have been given the ability to adapt to their surroundings. In addition, they learn various problems associated with the modern evolutionary synthesis. The experiments include extracting DNA from fruit, examining the effects of temperature and pH on enzymes, exploring osmosis and diffusion, building a pedigree, culturing bacteria, growing and examining fungi, and analyzing the structure of a feather. There are also several experiments that explore the microscopic world, including identifying the stages of mitosis, studying live bacteria that were cultured by the student, identifying budding in yeast, and analyzing the microscopic structure of plants and animals. Dissection experiments include: the earthworm, crayfish, fish, and frog.

### **CHEMISTRY**

**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**

[www.bereanbuilders.com](http://www.bereanbuilders.com)

**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 – we are using the 2<sup>nd</sup> edition – do not buy the 3<sup>rd</sup> edition!**

**Book to purchase: *Apologia Exploring Creation with Physics - 2<sup>nd</sup> edition***

**ISBN 978-1-932012-42-2**

**Book to purchase: *Solutions and Tests***

**ISBN 978-1-932012-43-9**

[www.apologia.com](http://www.apologia.com)

**Pre-requisites: Algebra 1 and Geometry**

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

**Book to purchase:** *BJU Fundamentals of Literature 2<sup>nd</sup> edition*

**ISBN 978-1-62856-436-5**

[bjupress.com](http://bjupress.com)

**Pre-requisite: None.** 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

**Book to purchase:** *BJU Elements of Literature 2<sup>nd</sup> edition*

**ISBN 978-1-62856-565-2**

[bjupress.com](http://bjupress.com)

**Pre-requisite: None, 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. A visual analysis section found at the beginning of each unit relates the unit's topic with the visual arts. Each unit also includes a short writing assignment that goes along with the literary genre and theme being studied.

### AMERICAN LITERATURE

**Book to purchase:** *BJU American Literature 3<sup>rd</sup> edition*

**ISBN 978-1-60682-733-8**

[bjupress.com](http://bjupress.com)

**Pre-requisite: None, but Fundamentals and Classic are 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

**Book to purchase:** *BJU British Literature 3<sup>rd</sup> edition*

**ISBN 978-1-62856-256-9**

[bjupress.com](http://bjupress.com)

**Pre-requisite: None, but Fundamentals, Classic, and American are recommended.** British Literature prepares students for the rigors of reading and critical thinking at the college level. They will broaden their cultural literacy and sharpen their sensitivity to aesthetics within the God-given gifts of language and storytelling. The class will include a broad array of works representing each era of British Literature, from authors like Geoffrey Chaucer, William Shakespeare, Robert Burns, Charles Dickens, and C.S. Lewis. Writing assignments will be also given with each unit to build students' skills in a variety of fiction and non-fiction genres.

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

## CULTURAL GEOGRAPHY

**Book to purchase:** *BJU Cultural Geography 9 - 5<sup>th</sup> edition*

**ISBN 978-1-62856-647-5**

**Book to purchase:** *BJU Cultural Geography 5<sup>th</sup> edition Activity Manual*

**ISBN 978-1-62856-649-9**

[bjupress.com](http://bjupress.com)

**Pre-requisite: None.** 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 aims to develop critical-thinking skills. Students study the seven continents and the people who live on them.

## WORLD HISTORY

**Book to purchase:** *BJU World History – 5<sup>th</sup> edition*

**ISBN 978-1-62856-344-3**

**Book to purchase:** *BJU World History Activities Manual – 5<sup>th</sup> edition*

**ISBN 978-1-62856-373-3**

[bjupress.com](http://bjupress.com)

**Pre-requisite: None 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.

## AMERICAN HISTORY

**Book to purchase:** *BJU United States History – 5<sup>th</sup> edition* BJU #505776

**ISBN 978-1-62856-207-1**

**Book to purchase:** *BJU US History Activities Manual – 5<sup>th</sup> edition* BJU#506675

**ISBN 978-1-62856-223-1**

[bjupress.com](http://bjupress.com)

**Book to purchase:** *The 5000 year leap by Cleon Skousen*

**ISBN 978-0-88080-1485**

**Pre-requisite: None but Cultural Geography and World History are recommended.** This 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.

## U.S. GOVERNMENT & ECONOMICS

**Book to purchase:** *BJU Government – 4<sup>th</sup> edition*

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

**Book to purchase:** *BJU Economics - 3<sup>rd</sup> edition*

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

[bjupress.com](http://bjupress.com)

**Book to purchase:** *Whatever Happened to Penny Candy 7<sup>th</sup> edition*

**ISBN 978-0-942617-64-1**

**Pre-requisite: None but Geography, World History are recommended.**

**U.S. Government:** This college prep class explores 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 and will acquire an understanding of the challenges of our modern political system. Students will also view Hillsdale College Constitution 101 lectures and give a short semester presentation. This class prepares students for the rigors of reading and critical thinking at the college level.

**Economics:** Teaches 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, and 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. A 3–5-page research paper and a short semester presentation are required.

## **ELECTIVES: Spanish 1 & 2 - NT Survey A & B – HS Art Class – Speech**

### **Personal Finance with Practical Math - Nutrition & Fitness - Vocal Ensemble**

#### **SPANISH 1**

**Book to purchase: *BJU Spanish 1, 3<sup>rd</sup> edition***

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

**Book to purchase: *BJU Spanish 1 Activities Manual 3<sup>rd</sup> edition***

***ISBN 978-1-60682-970-7***

***[bjupress.com](http://bjupress.com)***

This class 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.

#### **SPANISH 2**

**Book to purchase: *BJU Spanish 2, 3<sup>rd</sup> edition***

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

**Book to purchase: *BJU Spanish 2 Activities Manual 3<sup>rd</sup> edition***

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

***[bjupress.com](http://bjupress.com)***

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 to purchase: *A Popular Survey of the New Testament, Geisler***

***Student Text ISBN 978-0-8010-1661-5***

**Book to purchase: *Survey of the New Testament, Benware***

***Student Text ISBN 978-0-8024-2124-1***

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. Young people especially need to establish a comprehension of Scripture that can serve as a solid foundation for life. 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. Designed to equip the student with comfort and confidence in utilizing God's Word, not designed to focus on the doctrinal elements or theological arguments. Those matters we reserve for parents and pastors. **\*Year A covers the Gospels and Hebrews through Revelation; \*Year B covers Acts and Paul's Epistles**

#### **VOCAL ENSEMBLE CLASS**

***Teacher supplied materials***

In Middle/High Vocal Ensemble students will learn to sing together and in parts culminating in at least 2 performances during the school year. Workload will be commensurate with 1 high school credit. Skills taught will include proper vocal technique, breathing, vocal placement, blending, solfege, interval training, musical notation, rhythm, and basic music theory.

## **HIGH SCHOOL ART CLASS** AM and PM classes are the same

***The supply list will be on the class syllabus.***

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.

## **PERSONAL FINANCE W/PRACTICAL MATH**

***Books to purchase – Required: MATH U SEE Stewardship 2<sup>nd</sup> Edition Student workbook & Biblical Studies***

***Devotions*** <https://store.demmelearning.com/stewardship-2e-student-workbook.html> &

<https://store.demmelearning.com/stewardship-biblical-principles-and-scripture-studies.html>

### **Prerequisite: Algebra 1**

This unique personal finance course integrates practical math instruction with Biblical principles of finance and discipleship material, addressing topics relevant to 10-12<sup>th</sup> graders who are beginning to explore more independent financial opportunities and responsibilities. Units include income, banking, spending, credit cards, transportation, living standards, lifestyle, post high school alternatives, saving and investing, and using time and treasure. The Student Workbook contains lessons with questions on practical math and Bible application, including a family conversation question. Biblical Studies devotional lessons will also be added weekly. These lessons, from the Old and New Testaments, focus on 2 elements: biblical rooting (i.e., identity in Christ or guarding their hearts) and applying Scripture to stewardship (i.e., honoring God with wealth or money).

*Note: The first edition is not compatible with the second edition.*

## **NUTRITION & FITNESS**

### **Teacher supplied and online materials**

In 1 Corinthians 6, our bodies are referred to as temples of the Holy Spirit and we are charged with the task of glorifying God in them. This class strives to help students better understand, through practical and biblical knowledge, how to honor God by caring for their bodies. Throughout this 4 semester (2 year) course, students will come to understand the basic principles of nutrition and fitness, as well as the skills to apply them to establish healthy, lifelong habits.

## **SPEECH CLASS a.k.a. Competent Communication**

### **Teacher supplied materials**

At some point in life, you will be asked to deliver a presentation. This class will equip you with the life skills you need to step up to the challenge of public speaking. This public speaking course is designed to meet the student wherever they are in their journey to becoming a competent oral communicator. A controlled and supportive classroom environment with clearly defined roles for speakers AND listeners is the ideal setting for students to learn, practice, and master the techniques of public speaking. Students will be provided with weekly public speaking opportunities ranging from light-hearted low-stakes impromptu speaking challenges to formal speeches lasting 4-7 minutes. Students will also gain the life skill of being active listeners as they learn how to evaluate a speech and provide feedback.