

# Christian Educators Resource Center

## CLASSES 2023-2024



### ENGLISH

#### ● English I/Writing & Grammar-Trish Cowan

**Grade Level:** 8<sup>th</sup>-9<sup>th</sup>

**Prerequisites:** None

**Class size:** Minimum 5/ Maximum 15 students

**Supplies:** BJU Press *English* Student Text Grade 9 3<sup>rd</sup> Ed. ISBN 978-1-60682-239-5; spiral notebook; writing utensil; \*\*access to a computer and the internet at home for some of the reading, writing, and vocabulary assignments.

**Materials fee:** \$25 per student for books

This course will focus on reading and writing to lay a solid foundation for future English classes. We will target communicating and writing effectively building on students' prior knowledge of grammar and mechanics and addressing any gaps which they may have. Specifically, students will sharpen paragraph and essay writing. Additionally, we will review logical fallacies and practice recognizing and developing strong logical arguments through analysis of reading selections. Throughout the course, we will survey various genres of literature, such as short stories, novels, nonfiction and poetry as students learn textual elements of genres, author's purpose, tone, plot structure, symbolism, characterization, and theme.

#### ● English II/III - American Lit-Trish Cowan

**Grade Level:** 10<sup>th</sup>-11<sup>th</sup>

**Prerequisite:** Writing Placement Test

**Class Size:** Minimum 5/ Maximum 15 students

**Supplies:** BJU Press *American Literature*, Student Textbook Grade 11th 3<sup>rd</sup> Ed. ISBN: 978-1-60682-733-8; spiral notebook; writing utensil; \*\*access to computer and wi-fi for homework/paper writing

**Materials fee:** \$10

This course will be a survey of different genres of American literature, including short stories, poetry, novels, and nonfiction, from colonial times to modern day. We will read and analyze prominent literary works through discussion, projects and critical writing. Additionally, students will have regular vocabulary assignments, as well as grammar and mechanics refreshers as needed.

### MATH

#### ● Pre-Algebra-Dana Geerts

**Grade Level:** 8<sup>th</sup>-9<sup>th</sup>

**Prerequisite:** None

**Class Size:** Minimum 5/ Maximum 15 students

**Supplies:** Pre-Algebra Abeka (Revised) 4<sup>th</sup> Edition Student Text Book Abeka #31915501; Student Quiz/Test Book Abeka #31922801

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Give your 8<sup>th</sup> or 9<sup>th</sup> grader a solid foundation upon which to build high school mathematics skills with Abeka's *Pre-Algebra Work-text*. In this precursor to Algebra 1, lessons include in-depth explanations and examples give your child confidence to complete assigned problems and exercises and prepare for quiz and test assessments. Strategic review sections, terms in bold print, optional level-up sections that introduce related concepts, and reference sections at the back of the text are included resources. Mathematics skills covered include evaluating algebraic expressions, solving equations, identifying signed numbers, finding rational and irrational roots, graphing equations, geometry basics, and much more.

### ● Algebra I-Dana Geerts

**Grade Level:** 8<sup>th</sup>-10<sup>th</sup>

**Prerequisite:** Placement Test

**Class Size:** Minimum 5/ Maximum 15 students

**Supplies:** Abeka Algebra 1 (Updated Edition) Student Textbook Abeka# 15509807; Student Quiz/Test Book Abeka # 29491805

Twelve chapters cover real numbers, linear equations in one and two variables, linear inequalities, systems of equations, quadratic equations, rational expressions and equations, and more. New concepts are explained with examples and are followed by practice problem sets; review exercises are also integrated throughout. Word problems are emphasized, and many application problems related to the physical world are included.

### ● Algebra II-Dana Geerts

**Grade Level:** 9<sup>th</sup>-12<sup>th</sup>

**Prerequisites:** Algebra I and Placement Test

**Class Size:** Minimum 5/ Maximum 15 students

**Supplies:** Abeka Algebra 2 Student Textbook Abeka #19771806; Student Quiz/Test Book Abeka #19774201

Abeka's *Algebra 2* curriculum builds upon the concepts introduced in *Algebra 1*; students will study linear equations, linear inequalities, polynomials, probability, and statistics in greater depth; they'll also learn about exponential and logarithmic functions, matrices, and trigonometric equations and identities - introducing them to pre-calculus and trigonometry. Real-world applications in word problems emphasize the practicality of algebra while the Christian emphasis highlights the orderly design of the universe as seen through mathematical laws. Lessons explain the basic concept and integrate multiple step-by-step examples so students can see how problems should be worked; practice and review exercises provide hands-on opportunities to solve problems by applying new concepts and skills. Chapter and semester reviews are provided along with a final review that covers all chapters and a word problem review that covers most chapters.

### ● Geometry

**Grade Level:** 9<sup>th</sup>-12<sup>th</sup>

**Prerequisites:** Algebra I and Placement Test

**Class Size:** Minimum 3/ Maximum 12 students

**Supplies Needed:** Geometry 4th Edition BJU Press ISBN 978-1-60682-894-6; Student Tests ISBN 978-1-60682-896-0

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In Geometry, students will learn reasoning and proofs, triangles, parallel and perpendicular lines, quadrilaterals, circles, similarities, area, volume, intro to trigonometry, and practical applications. Each week, we will cover all the concepts, illustrations and examples in order to be successful in Geometry. At home, students will be required to do homework and turn in at the beginning of class.

### HISTORY

#### ● Cultural Geography-Trish Cowan

**Grade Level:** 9<sup>th</sup>-12<sup>th</sup>

**Prerequisite:** None

**Class Size:** Minimum 5/ Maximum 15 students

**Supplies:** BJU Press Cultural Geography 4<sup>th</sup> Edition Student Text ISBN 978-1-60682-499-3; Student Test book ISBN 978-1-60682-620-1

**Materials fee:** \$10

Cultural Geography helps 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. This course will focus on listening, reading comprehension, and the rearticulating what is learned in verbal and written form.

#### ● World History-Trish Cowan

**Grade Level:** 9<sup>th</sup>-12<sup>th</sup>

**Prerequisite:** None

**Class Size:** Minimum 5/ Maximum 15 students

**Supplies:** BJU Press World History Textbook 5<sup>th</sup> Ed. ISBN 978-1-62856-344-3; ; BJU Press Student Tests 978-1-62856-375-7

**Supply Fee:** \$10

*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. They will also do specific studies on Africa, the East, Asia, pre-colonization Americas, and empires in Africa, India, and Asia. 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.

#### ● US History-Trish Cowan

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**Grade Level:** 9<sup>th</sup>-12<sup>th</sup>

**Prerequisite:** None

**Class Size:** Minimum 5/ Maximum 15 students

**Supplies:** BJU Press United States History Textbook ISBN 978-1-62856-207-1; BJU Press Student Tests 978-1-62856-226-2

**Supply Fee:** \$10

*United States History* teaches students about the development of the United States as a nation in order for them to become informed and empowered citizens. The course begins with early American settlement, then moves on through the formation and early years of the nation, the Constitution, and the many challenges that have threatened survival. Students will develop their critical thinking skills as they learn to use their knowledge of the nation's history to make informed decisions about issues on a local, state, and national level.

## SCIENCE

### ● **Physical Science-Achini Mahawanniarachchi**

**Grade Level:** 8<sup>th</sup>-10<sup>th</sup>

**Prerequisites:** None

**Class Size:** Minimum 5/ Maximum 10 students

**Supplies:** Apologia Physical Science Student Textbook 3<sup>rd</sup> Ed. ISBN 978-1-946506-51-1

**Supplies Fee:** \$50

This is a middle school physical science course with a lab component. It is designed to be the last science course students take before high school biology. Therefore, it will provide students with the necessary skills to succeed in high school science courses. The physical science course will cover atomic structure, periodic table, chemical bonds, reaction and energy, motion, forces, waves, and sounds, light, electricity and magnetism, Earth's structure, and weathering and atmosphere.

### ● **Biology + Lab-Achini Mahawanniarachchi**

**Grade Level:** 8<sup>th</sup>-11<sup>th</sup>

**Prerequisite:** None

**Class Size:** Minimum 4/ Maximum 10 students

**Supplies:** Apologia text *Exploring Creation with Biology*, 3<sup>rd</sup> Ed. ISBN 978-1-946506-45-0 by Dr. Jay L. Wile, which can be purchased used or new for \$45-\$60. Notebook is not necessary.

**Materials fee:** \$60 Workbook pages will be provided. Supplies provided will include laboratory specimens for dissection, dissection kits, microscope supplies, and any other supplies necessary that cannot be readily obtained at home.

This class is a high school level biology program. It is a for-credit course with a lab component designed to be the student's first high school science course. It will help prepare students for college biology by providing a detailed introduction and foundation of the methods and concepts of general biology. With an emphasis on biology vocabulary, this course provides the student with a strong background in the scientific method, the five-kingdom classification scheme, microscopy, biochemistry, cellular biology,

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molecular and Mendelian genetics, dissection, and ecosystems. It also provides a complete survey of the five kingdoms of God's creation.

More information on this course from the publisher can be obtained at:

<https://www.apologia.com/homeschool-high-school-biology/>

Teaching will be done through discussions and hands-on activities. Essential skills for learning science, such as how to read/analyze a science textbook for facts, how to take notes, and how to write a science lab report will be taught and improved upon throughout this course.

Homework: Approximately 3-4 hours of reading, note taking, and studying at home weekly, plus lab work and tests.

### ● **Chemistry with Lab-Achini Mahawanniarachchi**

**Grade Level:** 10<sup>th</sup>-12<sup>th</sup>

**Prerequisite:** High school level Biology and Algebra I

**Class size:** Minimum 4/ Maximum 10 students

**Supplies:** *Discovering Design with Chemistry* by Dr. Jay L. Wile, ISBN 978-0-9962784-6-1 which can be purchased used or new for \$45-\$60. Notebook is not necessary.

**Materials fee:** \$60

This class is a high school level chemistry program. It is a for-credit course with a lab component designed to be the student's first high school science course. It will help prepare students for college chemistry by providing a detailed introduction and foundation of the methods and concepts of general chemistry. With an emphasis on chemistry vocabulary, this course provides the student with a strong background in the scientific method, and other important basics of chemistry.

"This independent-study, college-preparatory 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."

More information on this course from the publisher can be obtained at:

<https://bereanbuilders.com/ecommerce/product/discovering-design-with-chemistry>

Teaching will be done through discussions and hands-on activities. Essential skills for learning science, such as how to read/analyze a science textbook for facts, how to take notes, and how to write a science lab report will be taught and improved upon throughout this course.

Homework: Approximately 3-4 hours of reading, note taking, and studying at home weekly, plus lab work and tests.

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### ELECTIVES

#### ● **College & Career Class (Fall Semester)-Shari Nelson**

**Grade Level:** 11<sup>th</sup>- 12<sup>th</sup> only

**Prerequisites:** None

**Class Size:** Minimum 3/ Maximum 12 students

**Supplies:** Laptop and Wi-fi access to complete work

**Materials fee:** \$40 (YouScience)

In order to prepare for a two-year, four-year or career post-high school, students will walk through 16 lessons that cover aptitudes and skills testing, transcript building, career research, college research, scholarship research, college applications, resumes, essays, entrance exams resources & much more! You will need a laptop for the research and assignments.

Students will work from a google classroom and be expected to complete research each week and complete assignments, post to discussion board, and reply to classmates. All research will be completed with the student's personal plan for college and/or career in mind.

#### ● **Speech (Spring Semester)-Shari Nelson**

**Grade Level:** 9<sup>th</sup>- 12<sup>th</sup>

**Prerequisites:** None

**Class Size:** Minimum 5/ Maximum 10 students

**Supplies:** Sound Speech: Public Speaking & Communications Studies, BJU Press:

ISBN: 978-1-57924-620-4

“I know that you believe that you understood what you think I said, but I am not sure you realize that what you heard is not what I meant” Robert McCloskey. The ability to speak effectively, no matter the audience, is a critical skill our students need in today’s culture. We will cover the importance of excellent communication and the audience, accurate research and information, impactful thought and language, and the 5 main types of speeches.