

Family Academic and Christian Enrichment, Inc.

F.A.C.E. Co-op

2023-2024

Course Catalog

Nursery & Preschool

Ages 0-4

Maximum Students: 12

Class Fee: \$30 for all children ages 3-4 (& for any 2-year-olds who will be participating in the preschool program)

Class Description: Nursery is provided for children ages 0-2, and a structured preschool program that includes letter recognition, music, art, history, science, and games will be provided for children ages 3-4 (and any 2-year-olds who are ready to participate in the lessons and activities). Snacks will be provided for kids ages 2-4. All babies who have become mobile should be placed in the nursery. Please provide labeled snacks, drinks, and diapers for children 0-1 (and diapers for any others who are not yet potty-trained) and label your diaper bag.

Early Learners

K-2nd Grade

Maximum Students: 18

Class Fee: \$30

Class Description: Join us on an adventure as we jump into learning! Students will discover the joy of learning through fun, interactive, hands-on activities. Thematic units will provide the framework for students as they study literacy, art, music, games, math, science, and history. Along the way, students will be learning age-appropriate skills such as letters, sounds, phonics, handwriting, basic math concepts, and teamwork.

Required curriculum: None

Other materials required: Supplies will be provided

Homework: Optional homework may be sent home. Students may complete homework throughout the week to continue building on concepts introduced in class.

Elementary

Grades 3-5 unless otherwise noted

First Period

General Science with Experiments

Full Year, Period 1, Grades 3-5

Maximum Students: 15

Class Fee: \$25

Class Description: This class will be based on Bob Jones University (BJU) science curriculum, with co-op class time focusing on content learning with hands-on learning activities/experiments, related to the current lesson.

Homework: There will be optional work, but nothing that is required for the lesson week to week.

Required Curriculum: Nothing is required. Purchasing BJU Science 4 (4th edition) student text and student activity manual are optional if the family would like to continue learning the content at home throughout the week.

Other Materials Required: 1 ½" 3 Ring binder

Zoology 3: Land Animals of the Sixth Day

Full Year, Period 1, Grades 3-6

Maximum Students: 18

Class Fee: \$10

Class Description: "What separates people from apes? How can a Great Dane be related to a Chihuahua? Is there evidence that people and dinosaurs lived at the same time? What should you do if you encounter a bear? How can you tell if a snake is poisonous? Come find out answers to these questions and many, many more with Apologia's Exploring Creation with Zoology 3! As with all the Apologia elementary books, students will continue the practice of narration, keeping a notebook of what they have learned, and enjoy many hands-on projects and experiments throughout the course." - see more at: <http://www.apologia.com/zoology-3>

Homework: Daily reading and workbook pages

Required Curriculum: Apologia's Exploring Creation Zoology 3: Land Animals of the Sixth Day textbook (ISBN: 9781932012859); Exploring Creation with Zoology 3: Land Animals of the Sixth Day journaling notebook (ISBN: 9781935495130) You may choose if you would like the junior or regular journal depending on your child's age and abilities. The set sells for \$60 at Christianbook.com

Other Materials Required: pencil, colored pencils/crayons, scissors, and glue stick

Lego STEM Class

Full Year, Period 1, Grades 3-6

Maximum Students: 15

Class Fee: \$5

Class Description: Calling all LEGO creators! Come join us as we learn, create, build, and animate (Stop Motion) Students will be given STEM building challenges to encourage their critical thinking with some hands-on creative fun!

Homework: None

Required Curriculum: An app will be required for their electronic device

Other Materials Required: An electronic device with a camera (android or Apple will work), LEGO bricks for building

Exploring Creation with Chemistry and Physics

Full Year, Period 1, **Grades 5-7**

Maximum Students: 12

Class Fee: \$15

Class Description: This book teaches about the foundational elements of the universe and the building blocks of creation. Lessons will cover atoms and molecules, pH levels, mixtures, motion, energy, magnetism, and more. There will be daily reading and notebook work to do. We will do experiments/activities in class and also review what we learned that week.

Homework: Daily reading and notebook work

Required Curriculum: Apologia Exploring Creation with Chemistry and Physics student textbook (ISBN: 978-1-935495-98-7) and Exploring Creation with Chemistry and Physics Notebooking Journal-NOT THE JUNIOR (ISBN: 978-1-940110-05-9)

Other Materials Required: Pencil

Second Period

Elementary Literature Study

Full Year, Period 2, Grades 3-5

Maximum Students: 12

Class Fee: \$20.00

Class Description: In these four books explore a strange planet, the difficulties of a Christmas pageant, a boy's dog sledding adventure, and a Renaissance kingdom. Using Progeny Press study guides the class will be learning a variety of language art skills such as comprehension, vocabulary, and analysis, as well as exploring subjects related to the books.

Homework: Weekly reading and study guide assignments will need to be completed at home

Required Curriculum: All study guides will be provided

Purchasing the following books is required:

The Green Book by Jill Paton Walsh

The Best Christmas Pageant Ever by Barbara Robinson

Stone Fox by John Reynold Gariner

Crown and Jewel by Jeri Massi

Other Materials Required: A three-ring binder, pencils, glue stick, and scissors

Little House on the Prairie

Full Year, Period 2, Grades 3-5

Maximum Students: 15

Class Fee: \$0

Class Description: I love teaching this class! We will be following Laura and her family as they make their journey! We will be going over Bible concepts, simple living, making butter, and other crafts, along with subjects such as History, Science, Geography, Literature, and English.

Homework: Daily reading and answering questions with some writing assignments.

Required Curriculum: The students will need the books: Little House in the Big Woods, Little House on the Prairie, On the Banks of the Plum Creek, By the Shores of Silver Lake, and The Long Winter by Laura Ingalls Wilder. You can borrow them from the library or purchase them.

Other Materials Required: Pencils, crayons, scissors, glue, a folder, and a binder with paper.

Math Made Fun

Full Year, Period 2, Grades 3-5

Maximum Students: 20

Class Fee: \$5

Class Description: During this class, the student will strengthen their math and logical thinking skills. Come join me for loads of fun in this game-based class. We will enjoy games like Checkers, Chess, Math War, Math Bingo, and Math Twister. This class will be a fun supplement to whatever math curriculum you are doing at home.

Homework: No homework is required.

Required Curriculum: None

Other Materials Required: Pencil and Paper.

Younger Hands-on Creative Projects

Full Year, Period 2, **Grades 5-7**

Maximum Students: 12

Class Fee: \$15

Class Description: Macrame, air dry clay, origami, hand embroidery, felting, nature mobile and so much more! Hands-on crafts & art is perfect for creative, mature kids that are great at following directions independently. A Godly lesson will be tied into each project! Note: If you have a tendency to miss co-op, this might not be a great fit as projects will sometimes be completed in several weeks.

Homework: occasionally in order to finish a project.

Required Curriculum: none

Other Materials: occasionally you will be asked to bring in an item.

Third Period

Heroes of the Faith

Full Year, Period 3, Grades 3-5

Maximum Students: 12

Class Fee: \$10

Class Description: In this course, the children will be learning about real-life Biblical heroes. A 30-minute Torchlighter video will be shown at the beginning of the class, followed by an engaging discussion and fun activities. The goal of the class is to teach the children more about Biblical truths and raise up another generation of Jesus followers.

Homework: None

Required Curriculum: none

Other Materials Required: Pencils, Crayons, or Colored Pencils

50 States - (Passport to America)

Full Year, Period 3, Grades 3-6

Maximum Students: 15

Class Fee: \$20

Class Description: Learn about each state's flag, motto, fun facts & more as you fill up your passport crisscrossing the country! We will explore some of the sites & stories that make this vast land remarkable! We will do activities pertaining to each state, explore different recipes & watch videos of the beautiful landmarks in each state.

Homework: Worksheets will be given each week from the teacher's guide pertaining to the state discussed.

Required Curriculum: Text IS NOT required to be purchased. It is optional. (The text being used will be "Passport to America" by Craig Froman, Masterbooks.com SKU:M193-9) (The passport books will be included in the class fee).

Other Materials Required: Students will need a 3-ring binder, pencils, and colored pencils.

Story of the World: Vol. 1 Ancient Times

Full Year, Period 3, Grades 3-8

Maximum Students: 12

Class Fee: \$20

Class Description: In class, the students will create a geography folder. They will also complete an activity or craft relating to the current lesson.

Homework: Students will complete weekly reading and some worksheets that will be given in class. Some YouTube videos will be given to watch at home. Each student will complete 2 projects at home to bring in and share with the class.

Required Curriculum: Story of the World: Volume 1: Ancient Times by Susan Wise Bauer (this is a softcover text). It covers the earliest nomads to the last of the Roman empire. You may purchase the new revised or the older edition. Either is fine. Only one is book needed per family. CBD stock # www339004 (10.64)

Other Materials Required: a 3 Ring binder, glue stick, pencil or pen, and scissors.

Middle School

Grades 6-8 unless otherwise noted

First Period

Zoology 3: Land Animals of the Sixth Day

Full Year, Period 1, **Grades 3-6**

Maximum Students: 18

Class Fee: \$10

Class Description: "What separates people from apes? How can a Great Dane be related to a Chihuahua? Is there evidence that people and dinosaurs lived at the same time? What should you do if you encounter a bear? How can you tell if a snake is poisonous? Come find out answers to these questions and many, many more with Apologia's Exploring Creation with Zoology 3! As with all the Apologia elementary books, students will continue the practice of narration, keeping a notebook of what they have learned, and enjoy many hands-on projects and experiments throughout the course."- see more at:
<http://www.apologia.com/zoology-3>

Homework: Daily reading and workbook pages

Required Curriculum: Apologia's Exploring Creation Zoology 3: Land Animals of the Sixth Day textbook (ISBN: 9781932012859); Exploring Creation with Zoology 3: Land Animals of the Sixth Day journaling notebook (ISBN: 9781935495130) You may choose if you would like the junior or regular journal depending on your child's age and abilities. The set sells for \$60 at Christianbook.com

Other Materials Required: pencil, colored pencils/crayons, scissors, and glue stick

Lego STEM Class

Full Year, Period 1, **Grades 3-6**

Maximum Students: 15

Class Fee: \$5

Class Description: Calling all LEGO creators! Come join us as we learn, create, build, and animate (Stop Motion) Students will be given STEM building challenges to encourage their critical thinking with some hands-on creative fun!

Homework: None

Required Curriculum: An app will be required for their electronic device

Other Materials Required: An electronic device with a camera (android or Apple will work), LEGO bricks for building

Exploring Creation with Chemistry and Physics

Full Year, Period 1, **Grades 5-7**

Maximum Students: 12

Class Fee: \$15

Class Description: This book teaches about the foundational elements of the universe and the building blocks of creation. Lessons will cover atoms and molecules, pH levels, mixtures, motion, energy, magnetism, and more. There will be daily reading and notebook work to do. We will do experiments/activities in class and also review what we learned that week.

Homework: Daily reading and notebook work

Required Curriculum: Apologia Exploring Creation with Chemistry and Physics student textbook (ISBN: 978-1-935495-98-7) and Exploring Creation with Chemistry and Physics Notebooking Journal-NOT THE JUNIOR (ISBN: 978-1-940110-05-9)

Other Materials Required: Pencil

Masterbooks Applied Engineering: God's Design in Nature

Full Year, Period 1, **Grades 6-9**

Maximum Students: 12

Class Fee: \$15

Credits Earned: 1 Credit

Class Description: Explore the intersection of science and God's blueprints for life in this fascinating science course! In Applied Engineering, students will explore examples of God's incredible design in nature and discover how His design has inspired man-made designs for batteries, human organ repair, microlenses, automotive engineering, paint, and even credit card security! Through exciting books, engaging worksheets, and hands-on activities, students will explore the exciting field of biomimicry and the very frontiers of science where researchers are studying the design of God's world to create extraordinary breakthroughs that benefit our health, lives, and efficiency!

Homework: Students will be required to spend approximately 30-45 minutes per lesson, 4 days a week and participate in class discussions/activities.

Required Curriculum: Applied Engineering: Studies of God's Design in Nature Curriculum Pack ISBN # 9781683442042

Other Materials Required: 3 ring binder, lined paper, pencil

Photography 1 - An Introduction to Composition

Fall Semester, Period 1, **Grades 7-12**

Maximum Students: 12

Class Fee: \$12

Credits Earned: ¼

Class Description: This course will be an introduction to photography and will cover components of making quality images. Topics covered will include shadows, lighting, focal points, foreground, background, composition, displaying photos, and the use of a camera. This course will focus mainly on composition. We will cover file management and how to name, rename, copy, and move image files. Students will choose 1 image to get printed at a professional lab as a final project.

Homework: There will be approximately 1 hour of homework per week.

Required Curriculum: none

Other Materials Required: 1. Camera (you can use a smartphone, a point-and-shoot camera, or a DSLR camera), 2. SD card or memory card that fits the camera you have and is removable from the camera, 3. SD card reader (allows you to put it into a computer to view your images), 4. Use of a computer (this will be for moving picture files from the SD card to the computer and to the Google Drive where homework will be turned in - it will be taught how to do this in class)- bringing the computer to class will not be necessary, 5. Use of the internet, 6. Gmail account

Photography 2 - Advanced Photography

Spring Semester, Period 1, **Grades 7-12**

Maximum Students: 12

Class Fee: \$12

Credits Earned: ¼

Class Description: This course will take your photography to the next level. Topics covered will include: improving composition, shutter speed, aperture priority, manual mode - finding that balance between shutter speed and aperture priority, a little bit of editing, and improving your photography. Students will choose 1 image to get printed at a professional lab as a final project.

Homework: There will be approximately 1 hour of homework per week.

Requirement: you have to have taken a photography class before and must understand how to move picture files from your SD card, to the computer, and Google Drive homework. We will not cover this in class. Please ask if you have questions about this requirement.

Other Materials Required: 1. Camera (a camera that allows you to use shutter speed, aperture priority, and manual mode), 2. SD card or memory card that fits the camera you have and is removable from the camera, 3. SD card reader (allows you to put it into a computer to view your images), 4. Use of a computer (for photo storage, turning homework in, and editing - students will be asked to bring your computer to class for a couple of classes), 5. Use of the internet, 6. The ability to download a free editing software (I'll give you info on that later), 7. Gmail account

Career Exploration

Fall Semester, Period 1, **Grades 7-12**

Maximum Students: 20

Class Fee: \$5.00

Credits Earned: ½ credit

Class Description: Figuring out what we want to be when we grow up can be overwhelming. We may feel drawn to one career choice and then another. In this class, we will investigate our personalities and values and match that to some possible career choices. None of us know exactly what our future will be, so don't expect to have your entire future planned. We are seeking direction so we can be better prepared. Through guest speakers and research, we will learn of many different career possibilities that may be of interest.

Homework: students will have research and assignments to complete at home

Required Curriculum: none

Other Materials Required: access to the internet

Current Events

Spring Semester, Period 1, **Grades 7th-12th**

Maximum Students: 20

Class Fee: \$5.00

Credits Earned: ½ credit.

Class Description: This class will focus on world and local issues that affect students' everyday lives, such as economics, government, and conflict. We will use newspapers, online media, and newscasts to support class discussions. Students will have a better understanding of their global community and the different cultures across the world. We will broaden our knowledge of why information is important and how to discern fake news from real news. This class will help improve reading and writing skills, speaking and listening skills, and making connections.

Homework: students will have various homework assignments to complete throughout the week.

Required Curriculum: none

Other Materials Required: internet access, occasionally may need to purchase a newspaper

Older Hands-on Creative Projects

Full Year, Period 1, **Grades 7-12**

Maximum Students: 12

Class Fee: \$15

Credits Earned: Pass or Fail

Class Description: Macrame, air dry clay, origami, hand embroidery, felting, nature mobile and so much more! Hands-on crafts & art is perfect for creative, mature kids that are great at following directions independently. A Godly lesson will be tied into each project! Note: If you have a tendency to miss co-op, this might not be a great fit as projects will sometimes be completed in several weeks.

Homework: occasionally in order to finish a project.

Required Curriculum: none

Other Materials Required: occasionally you will be asked to bring in an item.

Apologia Physical Science

Full Year, Period 1, **Grades 8-10**

Maximum Students: 15

Class Fee: \$20.00

Credits Earned: 1

Class Description: This science course teaches atomic structure, the periodic table, chemical bonds, reactions, motions, forces, energy, waves, sound light, electricity, magnetism, Earth's structure, weathering, and atmosphere. All students that enroll in this class must have taken or be taking Algebra I.

Homework: Weekly reading and journal assignments. Tests will be taken at home. In class, we will conduct experiments and review concepts.

Required Curriculum: Exploring Creation with Physical Science 3rd Edition Student Textbook ISBN:978-1946506511, Exploring Creation with Physical Science 3rd Edition Student Notebook ISBN-10: 1956506542, Exploring Creation with Physical Science 3rd Edition Solutions and Test ISBN-10: 1946506524

Other Materials Required: Pens and pencils

Second Period

Younger Hands-on Creative Projects

Full Year, Period 2, **Grades 5-7**

Maximum Students: 12

Class Fee: \$15

Class Description: Macrame, air dry clay, origami, hand embroidery, felting, nature mobile and so much more! Hands-on crafts & art is perfect for creative, mature kids that are great at following directions independently. A Godly lesson will be tied into each project! Note: If you have a tendency to miss co-op, this might not be a great fit as projects will sometimes be completed in several weeks.

Homework: occasionally in order to finish a project.

Required Curriculum: none

Other Materials: occasionally you will be asked to bring in an item.

Middle School Literature: Progeny Press

Full Year, Period 2, Grades 6-8

Maximum Students: 16

Class Fee: \$15

Class Description: Using Progeny Press study guides with a twist! Progeny Press is a Christian language arts program that studies a novel and provides comprehension questions, vocabulary analysis, literary analysis, and deeper thought-provoking questions. In-class meetings will consist of dissecting the novels through language arts skills, group work, rotational work, and activities related to language arts. Partner/group/individual work will be assigned.

Homework: Progeny Press study guides will be assigned for homework. Weekly homework will usually consist of reading 3-4 chapters of the current novel and completing 4-5 pages of the study guide. Projects will be assigned at the end of the novels.

Required Curriculum: 4 novels:

Number The Stars by Lowe's Lowry

The Cay by Theodore Taylor

Tuck Everlasting by Natalie Babbitt

The Sign of The Beaver by Elizabeth George Speare

The study guides will be provided

Other Materials Required: three-ring binder, pencils

Writing with Skill Level 1

Full Year, Period 2, Grades 6-9 (advanced 6th grade)

Maximum Students: 12

Class Fee: \$2

Credits Earned: 1 English Credit for high school

Class Description: (From the publisher's description) This course covers the basics of summarizing, outlining, sentence skills, writing narratives and descriptions, and researching and documenting sources. The text workbook uses literary models to help students gain the tools needed to write with clarity. All source materials are included in the workbook but assignments will be completed on separate paper organized in their 3-ring notebook.

Homework: There will be daily homework required for this class. This may take 30 minutes or more daily. Please do not sign up for this class unless you are committed to keeping up with the daily work assigned.

Required Curriculum: *Writing with Skill: Student Workbook Level 1* by Susan Wise Bauer 2011 ISBN: 1933339535 ISBN 13: 9781933339535; *Writing with Skill Instructor Text Level 1* this is needed for guiding your student on daily work when needed- a used copy can be purchased inexpensively.

Other Materials Required: 3-ring notebook with 6 dividers, lined paper, writing utensils

Music Appreciation

Full Year, Period 2, Grades 6-12

Maximum Students: 15

Class Fee: \$5

Credits Earned: 1 Music Elective credit for high-school

Class Description: (taken from the primary text being used) This course aims to deepen the student's appreciation for music by exploring some of the greatest pieces of Western classical music. Students will start the year by reviewing the instruments of the orchestra. Then students will dig into musical concepts like notation, rhythm, form, pitch, and melody through the genres of opera, ballet, symphonies, and much more. Students will listen to lots of music, attend a live performance, read about the lives of composers, and give a final presentation on their favorite composer!

Homework: Reading and listening assignments will be given each week.

Required Curriculum: ISBN 9781615387922 Music Appreciation I by Patrick Fata (Memoria Press). ISBN 0310208068 Spiritual Lives of the Great Composers by Patrick Kavanaugh (Zondervan)

Other Materials Required: 3 ring binder with lined paper and 4 dividers

The Art of Argument

Full Year, Period 2, Grades 7-12

Maximum Students: 20

Class Fee: \$5.00

Credits Earned: 1 Elective Credit (Grades 9-12)

Class Description: False types of arguments are everywhere. In this introduction to the art of argument, learn how to discern which arguments are valid and which are not and how to “argue” well with reason, clarity, relevance, and purpose. We will study 28 logical fallacies with the purpose of providing a lasting framework for filtering good and bad reasoning while learning how to write and speak effectively.

Homework: There will be weekly homework for this class. (Since there is a large age range for this class, those who are in high school will be required to do more than those in 7th-8th grade, and/or may be graded on a stricter level.)

Required Curriculum: The Art of Argument: An Introduction to the Informal Fallacies, Student Text
ISBN-13#: 9781600510182 (\$26.50 on Christian Book Distributors)

Other Materials Required: Pencil, paper, and an open mind

Third Period

50 States - (Passport to America)

Full Year, Period 3, Grades 3-6

Maximum Students: 15

Class Fee: \$20

Class Description: Learn about each state’s flag, motto, fun facts & more as you fill up your passport crisscrossing the country! We will explore some of the sites & stories that make this vast land remarkable! We will do activities pertaining to each state, explore different recipes & watch videos of the beautiful landmarks in each state.

Homework: Worksheets will be given each week from the teacher’s guide pertaining to the state discussed.

Required Curriculum: Text IS NOT required to be purchased. It is optional. (The text being used will be “Passport to America” by Craig Froman, Masterbooks.com SKU:M193-9) (The passport books will be included in the class fee).

Other Materials Required: Students will need a 3-ring binder, pencils, and colored pencils.

Story of the World: Vol. 1 Ancient Times

Full Year, Period 3, Grades 3-8

Maximum Students: 12

Class Fee: \$20

Class Description: In class, the students will create a geography folder. They will also complete an activity or craft relating to the current lesson.

Homework: Students will complete weekly reading and some worksheets that will be given in class. Some YouTube videos will be given to watch at home. Each student will complete 2 projects at home to bring in and share with the class.

Required Curriculum: Story of the World: Volume 1: Ancient Times by Susan Wise Bauer (this is a softcover text). It covers the earliest nomads to the last of the Roman empire. You may purchase the new revised or the older edition. Either is fine. Only one is book needed per family. CBD stock # www339004 (10.64)

Other Materials Required: a 3 Ring binder, glue stick, pencil or pen, and scissors.

All American History -Vol II

Full Year, Period 3, grades 6-9

Maximum Students: 12

Class Fee: \$15

Class Description: Learn about American history from the mid-1800s, with units on the Civil War and Reconstruction, the Gilded Age, World Wars I & II, The Great Depression, the Cold War, and more! Looking at the past through a distinctly Christian lens, All American History provides a full year's worth of history. We will be highlighting some specific events and people monthly.

Homework: Weekly reading, some memorization of dates and quotes

Required Curriculum: All American History Volume 2 - Student Reader, by Bright Ideas ISBN# 978-892427-69-4

Other Materials Required: 3 ring binder, pencils, lined paper

American Sign Language: Level 1

Full Year, Period 3, Grade 6-12

Maximum Students: 12

Class Fee: \$6.00

Class Description: This course is an introduction to American Sign Language. Students will be taught ASL vocabulary and grammatical structures. Students will also learn the ASL fingerspelling system, the use of gestural devices and how to appropriately use the signing space in ASL. Students will also learn about some of the aspects of the deaf culture.

Homework: Weekly assignments

Required Curriculum: Class fee will cover the required curriculum. I will be utilizing various resources and providing handouts to the students; to place in their American Sign Language: Level 1 three-ring binder.

Other Materials Required: 3-ring binder, pencil, access to email

North Star Geography

Full year, Period 3, **Grades 7-12**

Maximum Students: 20

Class Fee: \$15

Credits Earned: 1 credit

Class Description: (From the Publisher's description) Geography can encompass so much more than identifying places on a map! North Star Geography from Bright Ideas Press covers basic geography skills (maps, navigation) as well as physical geography (topography, biosphere, structure of the earth) and human geography (environmental stewardship, agriculture, culture, heritage & more)- all from a Christian perspective.

Homework: There will be daily homework required for this class

Required Curriculum: North Star Geography by Tyler H. Hogan. Bright Ideas Press, 285 pages

Other Materials Required: a folder or notebook for storing worksheets and quizzes

High School

Grades 9-12 unless otherwise noted

First Period

Masterbooks Applied Engineering: God's Design in Nature

Full Year, Period 1, **Grades 6-9**

Maximum Students: 12

Class Fee: \$15

Credits Earned: 1 Credit

Class Description: Explore the intersection of science and God's blueprints for life in this fascinating science course! In Applied Engineering, students will explore examples of God's incredible design in nature and discover how His design has inspired man-made designs for batteries, human organ repair, microlenses, automotive engineering, paint, and even credit card security! Through exciting books, engaging worksheets, and hands-on activities, students will explore the exciting field of biomimicry and the very frontiers of science where researchers are studying the design of God's world to create extraordinary breakthroughs that benefit our health, lives, and efficiency!

Homework: Students will be required to spend approximately 30-45 minutes per lesson, 4 days a week and participate in class discussions/activities.

Required Curriculum: Applied Engineering: Studies of God's Design in Nature Curriculum Pack ISBN # 9781683442042

Other Materials Required: 3 ring binder, lined paper, pencil

Photography 1 - An Introduction to Composition

Fall Semester, Period 1, Grades 7-12

Maximum Students: 12

Class Fee: \$12

Credits Earned: ¼

Class Description: This course will be an introduction to photography and will cover components of making quality images. Topics covered will include shadows, lighting, focal points, foreground, background, composition, displaying photos, and the use of a camera. This course will focus mainly on composition. We will cover file management and how to name, rename, copy, and move image files. Students will choose 1 image to get printed at a professional lab as a final project.

Homework: There will be approximately 1 hour of homework per week.

Required Curriculum: none

Other Materials Required: 1. Camera (you can use a smartphone, a point-and-shoot camera, or a DSLR camera), 2. SD card or memory card that fits the camera you have and is removable from the camera, 3. SD card reader (allows you to put it into a computer to view your images), 4. Use of a computer (this will be for moving picture files from the SD card to the computer and to the Google Drive where homework will be turned in - it will be taught how to do this in class)- bringing the computer to class will not be necessary, 5. Use of the internet, 6. Gmail account

Photography 2 - Advanced Photography

Spring Semester, Period 1, Grades 7-12

Maximum Students: 12

Class Fee: \$12

Credits Earned: ¼

Class Description: This course will take your photography to the next level. Topics covered will include: improving composition, shutter speed, aperture priority, manual mode - finding that balance between shutter speed and aperture priority, a little bit of editing, and improving your photography. Students will choose 1 image to get printed at a professional lab as a final project.

Homework: There will be approximately 1 hour of homework per week.

Requirement: you have to have taken a photography class before and must understand how to move picture files from your SD card to the computer, and Google Drive homework. We will not cover this in class. Please ask if you have questions about this requirement.

Other Materials Required: 1. Camera (a camera that allows you to use shutter speed, aperture priority, and manual mode), 2. SD card or memory card that fits the camera you have and is removable from the camera, 3. SD card reader (allows you to put it into a computer to view your images), 4. Use of a computer (for photo storage, turning homework in, and editing - students will be asked to bring your computer to class for a couple of classes), 5. Use of the internet, 6. The ability to download free editing software (I'll give you info on that later), 7. Gmail account

Career Exploration

Fall Semester, Period 1, Grades 7-12

Maximum Students: 20

Class Fee: \$5.00

Credits Earned: ½ credit

Class Description: Figuring out what we want to be when we grow up can be overwhelming. We may feel drawn to one career choice and then another. In this class, we will investigate our personalities and values and match that to some possible career choices. None of us know exactly what our future will be, so don't expect to have your entire future planned. We are seeking direction so we can be better prepared. Through guest speakers and research, we will learn of many different career possibilities that may be of interest.

Homework: students will have research and assignments to complete at home

Required Curriculum: none

Other Materials Required: access to the internet

Current Events

Spring Semester, Period 1, Grades 7th-12th

Maximum Students: 20

Class Fee: \$5.00

Credits Earned: ½ credit.

Class Description: This class will focus on world and local issues that affect students' everyday lives, such as economics, government, and conflict. We will use newspapers, online media, and newscasts to support class discussions. Students will have a better understanding of their global community and the different cultures across the world. We will broaden our knowledge of why information is important and how to discern fake news from real news. This class will help improve reading and writing skills, speaking and listening skills, and making connections.

Homework: students will have various homework assignments to complete throughout the week.

Required Curriculum: none

Other Materials Required: internet access, occasionally may need to purchase a newspaper

Older Hands-on Creative Projects

Full Year, Period 1, Grades 7-12

Maximum Students: 12

Class Fee: \$15

Credits Earned: Pass or Fail

Class Description: Macrame, air dry clay, origami, hand embroidery, felting, nature mobile and so much more! Hands-on crafts & art is perfect for creative, mature kids that are great at following directions independently. A Godly lesson will be tied into each project! Note: If you have a tendency to miss co-op, this might not be a great fit as projects will sometimes be completed in several weeks.

Homework: occasionally in order to finish a project.

Required Curriculum: none

Other Materials Required: occasionally you will be asked to bring in an item.

Apologia Physical Science

Full Year, Period 1, **Grades 8-10**

Maximum Students: 15

Class Fee: \$20.00

Credits Earned: 1

Class Description: This science course teaches atomic structure, the periodic table, chemical bonds, reactions, motions, forces, energy, waves, sound light, electricity, magnetism, Earth's structure, weathering, and atmosphere. All students that enroll in this class must have taken or be taking Algebra I.

Homework: Weekly reading and journal assignments. Tests will be taken at home. In class, we will conduct experiments and review concepts.

Required Curriculum: Exploring Creation with Physical Science 3rd Edition Student Textbook ISBN:978-1946506511, Exploring Creation with Physical Science 3rd Edition Student Notebook ISBN-10: 1956506542, Exploring Creation with Physical Science 3rd Edition Solutions and Test ISBN-10: 1946506524

Other Materials Required: Pens and pencils

Intro to Computer Science

Full Year, Period 1, Grades 10-12

Maximum Students: 12

Class Fee: \$20

Credits Earned: 1 science or elective credit

Class Description: In this class, students will gain a solid foundation in terminology and basic skill across multiple platforms. The class as a whole is designed to be a creative problem-solving class. Students will learn to solve problems and analyze data. We will utilize Scratch, Code C, VS code, Python, and HTML. Topics included but not limited to in addition to coding are bugs/debugging, algorithms, crashes/freezing, organizing information, building data structures, storage of information, and frameworks/libraries. Students will be challenged and evaluated based on growth and improvement therefore this class is fitting for all students regardless of experience.

Homework: Homework EVERY week will vary based on projects students choose to create and goals they set since there is a lot of exploratory learning, problem-solving, and creativity encouraged. Homework for this class should be completed across MULTIPLE DAYS due to the nature of the assignments.

Required Curriculum: none.

Other Materials Required: Laptop brought to class with Wifi capabilities. Spiral notebook. Pen/Pencil.

Second Period

Writing with Skill Level 1

Full Year, Period 2, Grades 6-9

Maximum Students: 12

Class Fee: \$2

Credits Earned: 1 English Credit for high school

Class Description: (From the publisher's description) This course covers the basics of summarizing, outlining, sentence skills, writing narratives and descriptions, and researching and documenting sources. The text workbook uses literary models to help students gain the tools needed to write with clarity. All source materials are included in the workbook but assignments will be completed on separate paper organized in their 3-ring notebook.

Homework: There will be daily homework required for this class. This may take 30 minutes or more daily. Please do not sign up for this class unless you are committed to keeping up with the daily work assigned.

Required Curriculum: *Writing with Skill: Student Workbook Level 1* by Susan Wise Bauer 2011 ISBN: 1933339535 ISBN 13: 9781933339535; *Writing with Skill Instructor Text Level 1* this is needed for guiding your student on daily work when needed- a used copy can be purchased inexpensively.

Other Materials Required: 3-ring notebook with 6 dividers, lined paper, writing utensils

Music Appreciation

Full Year, Period 2, Grades 6-12

Maximum Students: 15

Class Fee: \$5

Credits Earned: 1 Music Elective credit for high-school

Class Description: (taken from the primary text being used) This course aims to deepen the student's appreciation for music by exploring some of the greatest pieces of Western classical music. Students will start the year by reviewing the instruments of the orchestra. Then students will dig into musical concepts like notation, rhythm, form, pitch, and melody through the genres of opera, ballet, symphonies, and much more. Students will listen to lots of music, attend a live performance, read about the lives of composers, and give a final presentation on their favorite composer!

Homework: Reading and listening assignments will be given each week.

Required Curriculum: ISBN 9781615387922 Music Appreciation I by Patrick Fata (Memoria Press).
ISBN 0310208068 Spiritual Lives of the Great Composers by Patrick Kavanaugh (Zondervan)

Other Materials Required: 3 ring binder with lined paper and 4 dividers

The Art of Argument

Full Year, Period 2, Grades 7-12

Maximum Students: 20

Class Fee: \$5.00

Credits Earned: 1 Elective Credit (Grades 9-12)

Class Description: False types of arguments are everywhere. In this introduction to the art of argument, learn how to discern which arguments are valid and which are not and how to "argue" well with reason, clarity, relevance, and purpose. We will study 28 logical fallacies with the purpose of providing a lasting framework for filtering good and bad reasoning while learning how to write and speak effectively.

Homework: There will be weekly homework for this class. (Since there is a large age range for this class, those who are in high school will be required to do more than those in 7th-8th grade, and/or may be graded on a stricter level.)

Required Curriculum: The Art of Argument: An Introduction to the Informal Fallacies, Student Text
ISBN-13#: 9781600510182 (\$26.50 on Christian Book Distributors)

Other Materials Required: Pencil, paper, and an open mind

Shakespeare Literature Study

Fall Semester, Period 2, Grades 9-12

Maximum Students: 15

Class Fee: \$7

Credits Earned: ½

Class Description: A comprehensive study of three of Shakespeare's greatest plays: Merchant of Venice, A Midsummer Night's Dream, and Romeo and Juliet. The class will be primarily discussion based with study and comprehension questions to answer at home. Students will be expected to complete the required weekly reading before class time so that they can contribute to class discussion. Students will learn to interpret Shakespeare, identify themes, and identify Shakespeare's continued influence on modern literature, movies, and culture.

Homework: Weekly discussion and comprehension questions to be answered at home. Weekly reading that MUST be completed before class time. End-of-semester presentation on a modern book, movie, or song influenced by Shakespeare.

Required Curriculum: No Fear Shakespeare Editions of the following plays:

Merchant of Venice

A Midsummer Night's Dream

Romeo and Juliet

Available at Amazon or Barnes and Noble for \$7 - \$10

Other Materials Required: Notebook for reading journal, 3-ring binder or folder for homework sheets

Modern Literature Study

Spring Semester, Period 2, Grades 9-12

Maximum Students: 15

Class Fee: \$10

Credits Earned: ½

Class Description: This is a comprehensive study of three books by living authors. The class will be primarily discussion based with study and comprehension questions to answer at home. Students will be expected to complete the required weekly reading before class time so that they can contribute to class discussion. Students will learn to identify themes, plot lines, character development, and influence from classic books. Students will increase their critical thinking, broaden their worldview and develop comprehensive reading skills.

A note to parents: The books for this class will contain mature and difficult subjects. During class time we will discuss these matters in light of our Christianity and yet the authors may present ideas that do not align with your family values. If you feel this would be difficult for your student please choose another class. Commonsensemedia.com is a good resource to learn more about the titles.

Homework: Weekly discussion and comprehension questions to be answered at home. Weekly reading that MUST be completed before class time. An end-of-semester presentation on an influential modern book or author.

Required Curriculum:

Three of the following books or titles similar to this (the teacher will communicate a final booklist closer to the start of class) -

Everything Sad is Untrue by Daniel Nayeri

As Long As The Lemon Trees Grow by Zoulfa Katouh

Amal Unbound by Aisha Saeed

A Crack in the Sea by H. M. Bouwman

Other Materials Required: Notebook for reading journal, 3-ring binder or folder for homework sheets

Research Paper

Fall Semester, Period 2, Grades 9-12

Maximum Students: 12

Class Fee: \$5

Credits Earned: ½ English Credit

Class Description: In this class, students will write a 7-10 page report or essay-style research paper. Students will be guided step-by-step through the process of choosing a good topic, finding quality resources, taking and organizing notes, and writing a rough and final draft in MLA format. Instruction will be included on taking good notes, avoiding plagiarism, citing correctly, and writing an original paper. The research paper will take the majority of the semester but the final few weeks before Christmas will be spent practicing short story writing by writing a short family narrative to document a favorite family story.

Homework: There will be daily homework as students work on each step of their paper.

Required Curriculum: MLA Research Paper Writing Guide (an ebook that needs to be downloaded and printed out from 7sistershomeschool.com before the first day of class. It is available for \$15.99 at this link: <https://www.7sistershomeschool.com/product/research-paper-writing-guide/> and

Introductory Guide to High School Short Story Writing: Family Narrative (an ebook that needs to be downloaded and printed out from 7sistershomeschool.com before the first day of class. It is available for \$9.99 at this link:

<https://www.7sistershomeschool.com/product/introductory-guide-to-high-school-short-story-writing-family-narrative/>

A code to get 33% off the price listed above will be sent to each family who signs up for this class. You can also keep your eye out for sales that they offer.

Other Materials Required: 3-ring notebook with dividers, notebook paper, index cards, pens, pencils, and highlighters

Communication and Speech I

Spring Semester, Period 2, Grade 9-12

Maximum Students: 12

Class Fee: \$5.00

Credits Earned: 1/2 English Credit

Class Description: This class will give students various tools, practice, and experience as they learn about the different types of communication and public speaking. The purpose of this class is to be able to speak clearly, effectively, and confidently; no matter who the audience is. Topics covered will include understanding the audience, content, organization, visual aids, speaker appearance, poise, voice, passion, eye contact, gestures, speed, different types of communication, and different types of speeches. Projects will include children's literature, Bible stories, poetry, humorous monologues, using visual aids in speeches, researching and presenting biographical reports, elevator pitches, sales pitches, infomercials, interviews, dealing with customer service reps, speaking in front of peers, and evaluating speeches. If needed, due to absences or weather cancellations, projects and speeches may be scheduled to be done via recordings, Zoom, or arranged times outside of co-op. Each student will be more confident and skilled at speaking in front of a group of people at the end of this class than they were at the beginning.

Homework: Weekly student book assignments, additional exercises/worksheets from the teacher, plus research and preparation work based on upcoming projects and speeches. Links will be sent as needed for on-line resources and videos to be watched and/or listened to outside of class.

Required Curriculum: Speech I Student Workbook (an ebook that needs to be downloaded from 7sistershomeschool.com); Link: www.7sistershomeschool.com/product/speech-student-workbook/ ; [Cost is \$5.99 per ebook]

A code to get 33% off the price listed above will be sent to each family who signs up for this class. You can also keep your eye out for sales that they offer.

ther Materials Required: Notebook/paper, folder or binder, writing utensils, highlighters, note/index cards, and other materials as may be required for projects (e.g. poster board, pictures, etc.)

Third Period

All American History -Vol II

Full Year, Period 3, **grades 6-9**

Maximum Students: 12

Class Fee: \$15

Class Description: Learn about American history from the mid-1800s, with units on the Civil War and Reconstruction, the Gilded Age, World Wars I & II, The Great Depression, the Cold War, and more! Looking at the past through a distinctly Christian lens, All American History provides a full year's worth of history. We will be highlighting some specific events and people monthly.

Homework: Weekly reading, some memorization of dates and quotes

Required Curriculum: All American History Volume 2 - Student Reader, by Bright Ideas ISBN# 978-892427-69-4

Other Materials Required: 3 ring binder, pencils, lined paper

American Sign Language: Level 1

Full Year, Period 3, Grade 6-12

Maximum Students: 12

Class Fee: \$6.00

Class Description: This course is an introduction to American Sign Language. Students will be taught ASL vocabulary and grammatical structures. Students will also learn the ASL fingerspelling system, the use of gestural devices and how to appropriately use the signing space in ASL. Students will also learn about some of the aspects of the deaf culture.

Homework: Weekly assignments

Required Curriculum: Class fee will cover the required curriculum. I will be utilizing various resources and providing handouts to the students; to place in their American Sign Language: Level 1 three-ring binder.

Other Materials Required: 3-ring binder, pencil, access to email

North Star Geography

Full year, Period 3, Grades 7-12

Maximum Students: 20

Class Fee: \$15

Credits Earned: 1 credit

Class Description: (From the Publisher's description) Geography can encompass so much more than identifying places on a map! North Star Geography from Bright Ideas Press covers basic geography skills (maps, navigation) as well as physical geography (topography, biosphere, structure of the earth) and human geography (environmental stewardship, agriculture, culture, heritage & more)- all from a Christian perspective.

Homework: There will be daily homework required for this class

Required Curriculum: North Star Geography by Tyler H. Hogan. Bright Ideas Press, 285 pages

Other Materials Required: a folder or notebook for storing worksheets and quizzes

Exploring Creation with Health and Nutrition

Full year, Period 3, Grades 9-12

Maximum Students: 12

Class Fee: \$6

Credits Earned: 1

Class Description: This curriculum explores the physical, social, mental, emotional, and spiritual concepts that are needed for a healthy lifestyle. It is designed to help students understand that their health is ultimately about stewardship: managing what they have the best they can. Students will study the human body systems, senses, genetics, and temperaments. Students will also learn macronutrients and micronutrients, including the importance of exercise and proper diet.

Homework: Daily

Required Curriculum: Apologia Exploring Creation with Health and Nutrition student textbook (\$59 on Apologia's website) and student notebook (\$44 on Apologia's website)

Other Materials Required: pencils, paper

Introduction to Psychology

Full Year, Period 3, Grades 9-12

Maximum Students: 15

Class Fee: \$15

Credits Earned: 1 Social Science Credit

Class Description: This class covers the basic topics of psychology, including the history of psychology from ancient to modern times, crisis intervention, genetics, personality, theories, and much more. At the completion of this course, students will be able to demonstrate a basic knowledge of the topics of psychology and will also learn some basic ways to help a friend during difficult times.

Homework: There will be required assigned reading, questions to answer about the reading, and an activity each week for the student to complete at home. These assignments are mandatory for the student to receive credit. Please only sign up for this class if your student is committed to completing the weekly assignments.

Required Curriculum: Introduction to Psychology from a Christian Perspective by 7Sisters Homeschool. This is a PDF textbook. The cost is \$34.99. You can purchase and download the text at:

<https://www.7sistershomeschool.com/product/introduction-to-psychology-from-a-christian-perspective/>

A code to get 33% off the price listed above will be sent to each family who signs up for this class. You can also keep your eye out for sales that they offer.

Other Materials Required: ½ inch 3 ring binder, writing utensils

Civics and the Constitution / History of America's Founding

Full Year, Period 3, Grades 9-12

Maximum Students: 12

Class Fee: \$7

Credits Earned: 1

Class Description: We will use the Institute on the Constitution's high school course that was for homeschoolers. There will be a lesson on DVD most weeks and a discussion. We will be examining and learning, from primary sources, the principles and ideas our Founders used to establish the American Republic. There will be a strong emphasis that our rights come from God, not the government - the Constitution simply secures these God-given rights. Students will gain the confidence to know and defend what they believe. They will learn the difference between socialism, communism, and capitalism and why we are a Constitutional Republic and not a democracy.

I plan to have a field trip in early Spring to Mount Vernon for their annual homeschool day.

Bonus- living historians may pop in a time or 2! 😊

Homework: Weekly reading and writing assignment.

Required Curriculum: Student book from Institute on the Constitution. Cost \$36.99 available here:

<https://theamericanview.com/collections/kits/products/u-s-constitution-course-homeschool-curriculum> and

the book The Law by Frederick Bastiat (available used on Ebay or new for only a few dollars)

Other Materials Required: Spiral notebook and pen.

