

Class Descriptions

2018-2019 Academic Year

LAF Co-op classes will be held at Grace Fellowship Church in Shrewsbury on Thursdays from 9:00am-3:20pm. We will have offerings for students in grades PreK-12. We will have three sessions, two 10 weeks and one 8 weeks long. Please see below for exact dates:

Fall Session: Sept 13 to Nov 15 (Make-up: Nov 29)

Winter Session: Jan 3 to Mar 7 (Make-up dates: Mar 14 and Mar 21)

Spring Session: Mar 28 to May 16 (Make-up: May 23)

The church has been very gracious to provide us space for a full day of classes each week during our 28 weeks in session next year. While they do not expect that cancellations by Grace Fellowship will occur, they have reserved the right to cancel our classes on a particular day if a ministry event comes up that would require use of the entire facility. They will provide a two week notice if a cancellation is needed in order to meet the overall facility needs of the church. If this happens, we will use a make-up day to reschedule the classes missed.

There is an annual **enrollment fee of \$35 for the first student and another \$15 for each additional student**, i.e. enrollment fee total for two students is \$50, for 3 students is \$65, etc.. The fee will cover the cost of website maintenance, liability insurance and other administrative expenses. **The enrollment fee is due by Thursday, May 16, 2018 in cash or money order and is non-refundable** even if you decide to withdraw students from classes. We hope to have registration available for current families by early April.

The cleaning fee for 2018-2019 will be \$50 to be paid in full by September 13th.

Please see individual class descriptions for a list of class and materials fees required for each course. These fees vary based on instructor and materials involved.

NOTE: Classes are year-long (must take all 3 sessions) unless otherwise noted.

Please see the page below for our list of class descriptions.

Middle School (6th-8th Grades)

9:00-9:50 am - 1st Period

Asian History (7th - 12th Grades)

We will focus primarily on the narrative of China from ancient times to the 20th century. Units will include: Chinese Dynasties: This unit introduces students to the first 2,500 years of Chinese history and offers students an in-depth view of Chinese civilization from the nascent years of the Shang Dynasty through the golden age of the Tang Dynasty. The Great Wall: This unit will investigate the building of the Great Wall during the Ming Dynasty, and will utilize the story of the wall as a tool for introducing students to one period in the rich history of China. The Mongols: This unit introduces students to the various societies, individuals, and dynamics that played a part in the saga of the Mongol Empire. Students study the empire's expansion and decline, its achievements and deficiencies, and its bright and dark characteristics. In the process, students learn to explore, assess, and appreciate the impact of the Mongol Empire on world history. Chinese Republic: This unit takes students through Chinese history from the end of the Qing Dynasty, through the Republican Era, and up to the Communist Era, and presents historical events against the backdrop of an ever-changing world. 20th Century China: The Cultural Revolution in China (1966-1976) was a decade of enormous change and upheaval with a lasting impact on the country, its citizens, and the world. China's Cultural Revolution teaches students about the social, cultural, educational, political, and economic changes through hands-on activities requiring critical thinking skills. Curriculum for this class created by Stanford University.

Instructor: Randi Marchant

Enrollment: Minimum 6 students and Maximum 20 students

Class Time: 9:00-9:50am (1st period)

Materials fee: \$10

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Computer – Coding, Robotics & More (6th - 8th Grades):

This course is intended to explore the basic concepts of computer programming for students with no prior exposure to programming. We will use 'scratch', 'RobotLab Kit' and other aides to introduce the basic concepts of computer science (data types, functions, methods, logic, etc.), while discussing the practical applications of what we learn. This will be a fun, hands-on class. Students will need a laptop to complete lessons and follow along in class.

NOTE: Students are required to bring a computer to class.

Instructor: Jeff Ruff

Enrollment: Minimum 8 students and Maximum 16 students

Class Time: 9:00-9:50am (1st period)

Materials Fee: TBD

Cost: \$8 per student, per class
(\$80 for a 10 week session and \$64 for an 8 week session)

Make a Movie (6th - 12th Grades):

In this year-long class students will work together through the entire process of creating an original movie. During the process of developing the final project, we will gain an understanding of the various roles involved, terminology used in the industry, and learn filming skills. We will be working through the filmmaking workflow which includes pre-production, production, and post-production. We will begin the year with script writing, progress into storyboarding, work through the filming and editing process and finally share in the joy of being a filmmaker. Note that outside work is required for this class.

Instructor: Holly Tymes
Enrollment: Minimum 5 students and Maximum 20 students
Class Time: 9:00-9:50am (1st period)
Cost: \$8.50 per student, per class
(\$85 for a 10 week session and \$68 for an 8 week session)

Science – Chemistry & Physics (5th -8th Grades):

Discover the foundational elements of the universe and the building blocks of creation! Using Exploring Creation with Chemistry and Physics as our guide, we will study how the universe functions through this exploration of matter and energy. Lessons will include atoms and molecules, pH levels, types of mixtures, mechanics, laws of motion, dynamics of motion, energy, waves, light, machines, magnets, and more. This class will keep kids interested and engaged as we explore topics and complete activities and projects and perform experiments every week!

Required text: *Exploring Creation with Chemistry and Physics* by Jeannie Fulbright; *Exploring Creation with Chemistry and Physics Junior Notebook* by Apologia Educational Ministries

Instructor: Julie Coggins
Enrollment: Minimum 10 students and Maximum 18 students
Class Time: 9:00-9:50am (1st period)
Materials fee: \$55
Cost: \$7 per student, per class
(\$70 for a 10 week session and \$56 for an 8 week session)

10:00-10:50 am - 2nd Period

Choir (1st -8th Grades):

Join us as we explore the joy of singing. We'll be covering some great music as the kids learn the basics of singing well. We'll even learn some songs with parts beginning with singing in rounds. Students will just need a folder to keep song lyrics and any music needed for the class.

Instructor: Pauline Williams

Enrollment: Minimum 8 students and Maximum 25 students
Class Time: 10:00-10:50am (2^d period)
Materials Fee: \$10 per student
Cost: \$6 per student, per class
(\$60 for a 10 week session and \$48 for an 8 week session)

Dance (5th- 9th Grades):

If you have a child who loves to dance or would even just like to give dance a try then this class with our amazing Ms. Warkenda is the class for them. Her heart-felt philosophy is that everyone is a dancer, it is just that some people haven't realized it yet. The students will work within the art of several different dance music and movement to build strength, confidence, and a love of dance. An introduction into various dance history and vocabulary is also presented in each session. Students should come prepared to dance and have a water bottle with them. An end of the unit presentation will be presented by the students at the end of each session to show what they have learned.

NOTE: THIS IS A SESSION-BY-SESSION CLASS (can be taken for 1, 2 or 3 sessions). It is still to be determined which dance form (jazz, modern, ballet, lyrical, etc) will be offered each session.

Instructor: Warkenda Williams-Casey
Enrollment: Minimum students and Maximum students
Class Time: 10:00-10:50am (2^d period)
Cost: \$7per student, per class
(\$70 for a 10 week session and \$56 for an 8 week session)

Latin - Latina Christina (5th-8th Grades):

This is a beginner Latin course following "Prima Latina." Students will learn Latin vocabulary, grammar, noun and pronoun forms, 1st and 2nd Declension, songs, history lessons and games. Students who have taken Prima Latina will be prepared for this course, however it is not a requirement. Concepts learned in Prima Latina will be reviewed during the first weeks of the course. New students are welcome.

Required text: Latina Christiana, Book 1 and CD

<https://www.christianbook.com/latina-christiana-student-book-1/cheryl-lowe/9781615385188/pd/385188?event=Homeschool|1004940>

<https://www.christianbook.com/latina-christiana-pronunciation-audio-1/9781615385157/pd/385157?event=Homeschool|1004940>

Lit N Comp (4th-6th Grades)

Every child becomes a reader when a good book is in their hands. In this class, we will explore a variety of genres and follow each book with a writing assignment that correlates with the novel. Some book choices will be Frindle, The Family Under the Bridge, The Boy in Striped Pajamas, Number the Stars, Hatchet, Wonder, and Shiloh. As always, if some of my students have already read these, there will be a back-up plan with other choices. Come grow your vocabulary, discuss challenging topics, and learn how the life experiences of each author is evident in his writing.

Instructor: Jan Null

Enrollment: Minimum 6 students and Maximum 18 students

Class Time: 10:00-10:50am (2nd period)

Cost: \$6.00 per student, per class

(\$60 for a 10 week session and \$48 for an 8 week session)

Make a Movie (6th - 12th Grades):

In this year-long class students will work together through the entire process of creating an original movie. During the process of developing the final project, we will gain an understanding of the various roles involved, terminology used in the industry, and learn filming skills. We will be working through the filmmaking workflow which includes pre-production, production, and post-production. We will begin the year with script writing, progress into storyboarding, work through the filming and editing process and finally share in the joy of being a filmmaker. Note that outside work is required for this class.

Instructor: Holly Tymes

Enrollment: Minimum 5 students and Maximum 20 students

Class Time: 10:00-10:50am (2nd period)

Cost: \$8.50 per student, per class

(\$85 for a 10 week session and \$68 for an 8 week session)

Science - Biology (8th-12th Grades):

Students will explore life using Apologia's Exploring Creation with Biology (2nd ed). During this course students will study the sixteen modules in the book covering cells (structure and function), unicellular organisms, genetics, insects, plants, reptiles, mammals, and more. Students will participate in hands-on labs. There will be dissections (earthworm, grasshopper, crayfish, perch and frog) and labs with living organisms. Students will learn proper use of the microscope and slide preparation while having the opportunity to view live protozoa. Along with class discussions and labs the students will also participate in lab practicums and presentations. Student's will also receive links and videos that they can utilize during their home study to help solidify their understanding of the material being taught during class.

NOTE: This class spans across two periods. Students must take both the lecture and the lab, they are not separate entities. Please be sure you allot two class periods when planning your day to include this course.

Required text: *Apologia's Exploring Creation With Biology* (2nd Edition)

Instructor: Erin Dickson

Enrollment: Minimum 10 students and Maximum 18 students

Class Time: 10:00-11:50am (2nd and 3rd period)

Materials Fee: \$50 per student, per year

Cost: \$11 per student, per class (note that this covers 2 class periods)

(\$110 for a 10 week session and \$88 for an 8 week session)

Required supplies: 1/2" binder with 16 dividers and notebook paper, goggles, a pack of 10 pairs of dissecting gloves (any non-latex plastic glove sized to fit your student's hands), colored pencils, ruler, and calculator.

11:00-11:50 am - 3rd Period

Ancient Asia: On the Road with Marco Polo (3rd - 6th Grades):

We will focus primarily on the narrative of China from ancient times to the 20th century. Units will include: Chinese Dynasties: This unit introduces students to the first 2,500 years of Chinese history and offers students an in-depth view of Chinese civilization from the nascent years of the Shang Dynasty through the golden age of the Tang Dynasty. The Great Wall: This unit will investigate the building of the Great Wall during the Ming Dynasty, and will utilize the story of the wall as a tool for introducing students to one period in the rich history of China. The Mongols: This unit introduces students to the various societies, individuals, and dynamics that played a part in the saga of the Mongol Empire. Students study the empire's expansion and decline, its achievements and deficiencies, and its bright and dark characteristics. In the process, students learn to explore, assess, and appreciate the impact of the Mongol Empire on world history. Chinese Republic: This unit takes students through Chinese history from the end of the Qing Dynasty, through the Republican Era, and up to the Communist Era, and presents historical events against the backdrop of an ever-changing world. 20th Century China: The Cultural Revolution in China (1966-1976) was a decade of enormous change and upheaval with a lasting impact on the country, its citizens, and the world. China's Cultural Revolution teaches students about the social, cultural, educational, political, and economic changes through hands-on activities requiring critical thinking skills. Curriculum for this class created by Stanford University.

Instructor: Randi Marchant

Enrollment: Minimum 6 students and Maximum 16 students

Class Time: 11:00-11:50am (3rd period)

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Art – Drawing and Painting (6th-12th Grades):

The drawing and painting art class is designed to meet the needs of students 6th to 12th grade. Materials, art concepts and techniques are carefully selected according to the age and ability of the student. Students work in a variety of mediums including charcoal, pastel, graphite,

watercolor, and acrylics. Students are taught the use of proper shape and proportion along with compositional skills. Each student is encouraged to explore the use of color, style and individual expression. Students will advance and learn how to compose and begin a painting whether it be with watercolors or acrylics, mix colors, and discover the creative and technical versatility of painting. The program encourages individual expression while teaching new skills, ideas and techniques.

Instructor: Molly Adler

Enrollment: Minimum 8 students and Maximum 20 students

Class Time: 11:00 -11:50am (3rd period)

Materials Fee: \$30 per student, per year

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Intermediate Grammar (5th - 8th Grades):

Students who already have a basic understanding of grammar (see placement test), or have completed an introductory grammar course such as IEW's "The Nose Tree," will be a perfect fit for this class. Using IEW's "Fix-It Grammar: Robin Hood," each week a new grammar concept will be introduced and modeled for the student. Students will have a small amount of homework each week, which will be corrected and reviewed as a class. Students will cover the essentials of grammar and editing, while reading an engaging and interesting story. Students will have the opportunity to copy the story and illustrate (optional) their own handwritten copy of "Robin Hood."

Instructor: Christina Rodriguez

Enrollment: Minimum 8 students and Maximum 16 students

Class Time: 11:00-11:50am (3rd period)

Materials Fee: \$15 per student, per year (additional \$10 if parents would like the teacher to provide the student book)

Cost: \$8 per student, per class

(\$80 for a 10 week session and \$64 for an 8 week session)

Vocal Ensemble (7th - 12th Grades)

For students who enjoy singing! This vocal ensemble would sing pieces in parts. Some would be acapella and some with backgrounds. Some experience reading music and singing in parts would be helpful, but not required.

Instructor: Pauline Williams

Enrollment: Minimum 10 students and Maximum 30 students

Class Time: 11:00-11:50am (3rd period)

Materials fee: \$20 per session

Cost: \$6.50 per student, per class

(\$65 for a 10 week session and \$52 for an 8 week session)

Write Shop I (6th - 10th Grades)

In WriteShop 1, assignments give students a chance to practice various kinds of writing, including creative, expository, narrative, and persuasive. With each lesson, they'll learn new skills, apply them to their current writing project, and edit and revise the composition several times. By the end of the lesson—after brainstorming, writing, editing, and revising—they'll have a polished paper to be proud of! This class is geared toward 6-10 grade students, and offers them a strong foundation in basic writing skills.

Required textbook: *Writeshop 1 Student Workbook* ISBN: 9781935027331

Instructor: Brianne Good

Enrollment: Minimum 6 students and Maximum 20 students

Class Time: 11:00-11:50am (3rd period)

Materials fee: \$5

Cost: \$6.50 per student, per class

(\$65 for a 10 week session and \$52 for an 8 week session)

12:30-1:20 pm - 4th Period

Art – Drawing and Painting (6th-12th Grades):

The drawing and painting art class is designed to meet the needs of students 6th to 12th grade. Materials, art concepts and techniques are carefully selected according to the age and ability of the student. Students work in a variety of mediums including charcoal, pastel, graphite, watercolor, and acrylics. Students are taught the use of proper shape and proportion along with compositional skills. Each student is encouraged to explore the use of color, style and individual expression. Students will advance and learn how to compose and begin a painting whether it be with watercolors or acrylics, mix colors, and discover the creative and technical versatility of painting. The program encourages individual expression while teaching new skills, ideas and techniques.

Instructor: Molly Adler

Enrollment: Minimum 8 students and Maximum 20 students

Class Time: 12:30 -1:20pm (4th period)

Materials Fee: \$30 per student, per year

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Civics (6th - 8th Grades):

Do your middle school students think civics is boring and confusing? This is a class that will make them think again! It will be filled with fun, interesting information about the three branches of government; important documents; civil liberties and rights; and elections. Students will learn about the functions of the U.S. Government, how public policy is shaped---and how they can become involved in the process.

NOTE: It is recommended but not required that you register your student for all 3 sessions.

Instructor: BeckiJo Disney

Enrollment: Minimum 5 students and Maximum 15 students

Class Time: 12:30-1:20 pm (4th period)

Materials Fee: \$10

Cost: \$6.50 per student, per class

(\$65 for a 10 week session and \$52 for an 8 week session)

Computer – Intro to CADD (Computer-aided Drafting and Design) (6th-12th Grades):

In recent years, the engineering profession has adopted CADD as a required skill. More recently, with the advent of 3D printing, it has become even more important. This year-long course will introduce students to computer-aided drafting and design with emphasis on both two-dimensional (2D) and three-dimensional (3D) design and modeling. Computer software such as Trimble SketchUp (formerly Google SketchUp) and Autodesk's AutoCad will be utilized. SketchyPhysics, a plug-in software program for SketchUp, will allow students to create realistic simulations and animated models on the computer screen. A side benefit is that this course will enhance visualization skills and knowledge of both plane and solid geometry. Students will need access to a laptop, notebook, or tablet computer.

Instructor: David Zolin

Enrollment: Minimum 10 students and Maximum 20 students

Class Time: 12:30-1:20 pm (4th period)

Materials Fee: \$10 per student, per year

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Contemporary World History (7th - 12th Grades):

Slog, slog, slog. We have made it through the Civil War and reconstruction. It is late April, and we have one more month of school to cover all of World War I, World War II, the Cold War, and present day. We better sprint through all of it really quickly. Does this sound familiar to anyone? This class begins around the turn of the 20th century. No longer is the time after reconstruction merely a time to be sped through, we will take time to understand the importance and implication of these events. How did the Bolshevik revolution impact the Cold War? What is MAD? When did the Cold War end? What was the Arab Spring? Why was the US involved in Afghanistan? How did there come to be Sudan and South Sudan? What is the deal with the Koreas, and how could they march under the same Olympic flag from 2000-2006? While this course is geared toward high school students, I welcome 7 and 8 grade students as well. Students in grades 7 and 8 will have slightly lower level expectations. We will use portions of documentaries such as The Civil War by Ken Burns and podcasts such as Backstory.

Instructor: Brianne Good

Enrollment: Minimum 8 students, Maximum 20 students

Class Time: 12:30-1:20 pm (4th period)

Materials Fee: \$30

Cost: \$7 per student, per class
(\$70 for a 10 week session and \$56 for an 8 week session)

Intro to Strings (8th - 12th Grades):

Beginners/Students will be able to choose from violin, viola, cello or upright string bass. They will need to provide their own instrument, music stand and method book selected by the teacher. Students will learn to play their instrument in a classroom group environment with two performance opportunities throughout the year. Lessons will include some music history and theory. No musical experience necessary.

NOTE: Students will need to bring their own music stand and instrument to every class.

Instructor: Kim Finnigan

Enrollment: Minimum 5 students and Maximum 15 students

Class Time: 12:30-1:20 pm (5th period)

Materials Fee: \$10 per student

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Physical Education (3rd - 6th Grades):

This class will focus on skill development through games and activities that promote cooperation and teamwork.

NOTE: THIS IS A SESSION-BY-SESSION CLASS (can be taken for 1, 2 or 3 sessions).

Instructor: Diane Flanscha

Enrollment: Minimum 8 students and Maximum 15 students

Class Time: 12:30-1:20 pm (4th period)

Cost: \$6.50 per student, per class

(\$65 for a 10 week session and \$52 for an 8 week session)

Science – Chemistry & Physics (5th -8th Grades):

Discover the foundational elements of the universe and the building blocks of creation! Using Exploring Creation with Chemistry and Physics as our guide, we will study how the universe functions through this exploration of matter and energy. Lessons will include atoms and molecules, pH levels, types of mixtures, mechanics, laws of motion, dynamics of motion, energy, waves, light, machines, magnets, and more. This class will keep kids interested and engaged as we explore topics and complete activities and projects and perform experiments every week!

Required text: Exploring Creation with Chemistry and Physics by Jeannie Fulbright; Exploring Creation with Chemistry and Physics Junior Notebook by Apologia Educational Ministries

Instructor: Julie Coggins
Enrollment: Minimum 6 students and Maximum 18 students
Class Time: 12:30-1:20pm (4th period)
Materials fee: \$55
Cost: \$7 per student, per class
(\$70 for a 10 week session and \$56 for an 8 week session)

Science – Natural Science (8th-12th Grades):

During this lab course students will focus on a different natural science topic each session. This class will consist of a hands on lab each week along with lecture. Session 1 (fall): Botany- Students will investigate the growth, reproduction, anatomy, physiology, genetics and ecology of plants. Session 2 (Winter): Geology - Students will investigate rocks, rock cycle, minerals, plate tectonics, earthquakes, volcanoes, faults, folds, soil composition and much more. Session 3 (Spring): Entomology - Students will investigate anatomy, diversity and conservation, Sensory systems and behavior, Insect societies, relationship with plants, soil and other organisms, methods of collection, identification and preservation and much more.

NOTE: This class spans across two periods. Students must take both the lecture and the lab, they are not separate entities. Please be sure you allot two class periods when planning your day to include this course.

Required text: TBD

Instructor: Erin Dickson
Enrollment: Minimum 10 students and Maximum 20 students
Class Time: 12:30-1:20pm (4th and 5th period)
Materials Fee: \$50 per student, per year
Cost: \$11 per student, per class (note that this covers 2 class periods)
(\$110 for a 10 week session and \$88 for an 8 week session)
Required supplies: 1/2" binder with 16 dividers and notebook paper, goggles, a pack of 10 pairs of dissecting gloves (any non-latex plastic glove sized to fit your student's hands), colored pencils, ruler, and calculator.

Spelling, Handwriting & Simple Sentences (3rd-6th Grades):

Some subjects are made less painful in a classroom setting. This course is designed for the upper elementary student who struggles with spelling and writing. Each week, students will learn new spelling rules and practice the rules in class using a variety of tactile and sensory methods. The students will practice their spelling lists at home by alphabetizing their lists and using each word in a simple sentence. The students will also practice the conventions of proper penmanship throughout the class.

Instructor: Christina Rodriguez
Enrollment: Minimum 8 students, Maximum 16 students
Class Time: 12:30-1:20 pm (4th period)

Materials Fee: \$15
Cost: \$8 per student, per class
(\$80 for a 10 week session and \$64 for an 8 week session)

1:30-2:20 pm - 5th Period

Art – Crafty Creations (6th - 8th Grades):

Let's try something REALLY different! How about.....a watercolor jungle silhouette, Op Art, Zentangle and Zendoodle, a barn board snowman in time for Christmas, a hula hoop T shirt rug, or a feather project in colored pencil. These are just a few of the unique art creations we will design together. Add your own touch and create something wonderful.

Instructor: Jan Null
Enrollment: Minimum 6 students and Maximum 20 students
Class Time: 1:30-2:20 pm (5th period)
Materials Fee: \$10 per student, per year
Cost: \$6 per student, per class
(\$60 for a 10 week session and \$48 for an 8 week session)

Charlotte Mason Handicrafts (6th - 12th Grades):

We know that the human hand is a wonderful and exquisite instrument to be used in a hundred movements exacting delicacy, direction and force; every such movement is a cause of joy as it leads to the pleasure of execution and the triumph of success. With this in mind CM Handicrafts aim is to teach skills. We will work on different handicrafts throughout the year which will include:Locker Hooking, Knot tying, Needle Felting,Rope Making, Nålbinding, Knitting, Origami, Tatting, Weaving, Top Whorl Spinning

Instructor: Randi Marchant
Enrollment: Minimum 5 students and Maximum 15 students
Class Time: 1:30-2:20pm (5th period)
Materials Fee: \$15 per student
Cost: \$7 per student, per class
(\$70 for a 10 week session and \$56 for an 8 week session)

Complete Writer (7th-12th Grades):

This expository writing course will provide a complete writing curriculum for your middle or high school student. Using Susan Weis Bauer's "Writing With Skill Level 1" students will learn outlining; writing biographical narratives and descriptions; literary essays; and will complete a final research paper. This is an academic class with the expectation of written homework. Student writings will be graded using the rubrics provided by the Writing with Skill textbook.

Required textbook: Writing with Skill, Level 1

<https://welltrainedmind.com/p/the-complete-writer-writing-with-skill-level-1-student->

[workbook/#product-description](#)

Instructor: Christina Rodriguez

Enrollment: Minimum 8 students and Maximum 12 students

Class Time: 1:30-2:20 pm (5th period)

Materials Fee: \$15 per student, per year

Cost: \$9 per student, per class

(\$90 for a 10 week session and \$72 for an 8 week session)

Computer – Intro to Python (6th - 8th Grades):

No previous programming experience necessary. In this computer science course, you will learn about computing principles, such as how to write and read computer code and how to run and debug code. You will learn about programming concepts in Python such as variables, operators, loops, conditionals, and functions.

NOTE: Students are required to bring a computer to class.

Instructor: Cheri Bogart

Enrollment: Minimum 10 students and Maximum 20 students

Class Time: 1:30-2:20 pm (5th period)

Materials fee: TBD

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Computer Skills (3rd - 12th Grades)

Keyboarding & Basic Skills (Fall Session)

This one session class will meet each student at their skill level. Students will spend half of every class period practicing proper Keyboarding skills. The second half of class would include time learning about using the Internet for research, how to download and insert images into documents, basic word processing skills. We will do an introduction to programming using an online tool called Scratch and learn how to integrate technology into your core class curriculum.

Website Design (Winter Session)

In this one session class students in grades 3-12 are invited to learn how to make their own webpage in a fun, safe, interactive way! Each student will be met at their skill level. We will start by learning some of the behind the scenes of web design and even learn how to do a little html coding. Students will learn about graphics and layouts and the importance of color on your web page. Through taking careful privacy measures, we will learn blog writing and how to properly interact online. By the end of class, each student will have their own website for whatever they choose.

Microsoft Office Skills (Spring Session)

This one session class will meet each student at their skill level. Does your child know how to create a book report, a graph or a newsletter, and a slide show on the computer? If not, this class would be a

great way to prepare them for many projects they may have in High School and beyond. This class will go in-depth with how to use all the tools in Microsoft Word, Excel and Power Point. Middle and high-school students will learn how to adjust page layouts, margins, font size and spacing as we learn how to create a works cited page in MLA format. For younger students, we will practice by creating a fun newsletter for our co-op and explore using columns, text boxes and images. Class projects will be geared towards your child's age as they become tech-savvy individuals!

NOTE: Students are required to bring a computer to class.

Instructor: Holly Tymes

Enrollment: Minimum 5 students and Maximum 15 students

Class Time: 1:30-2:20pm (5th period)

Cost: \$7.50 per student, per class

(\$75 for a 10 week session and \$60 for an 8 week session)

Hands-on History (4rd -6th Grades):

This will be an engaging, hands-on, literature-based history class for grades 4-6. We will be studying world and U.S. history of the modern time period. (1850-present) The class will have several components including: 1. some at-home reading; class discussion and teaching; 2. in- class, hands-on activities and projects each week that the students will work on and 3. a short read-aloud time of historical literature. The class will also cover geography, civics and church history components. Using the PA homeschool law: for the elementary level, this class will cover history, geography and civics. It also covers PA history.

Required text: The Story of the World, Volume 4: The Modern Age by Susan Wise Bauer.

Instructor: Julie Coggins

Enrollment: Minimum 10 students, Maximum 18 students

Class Time: 1:30-2:20 pm (5th period)

Materials Fee: \$30, includes curriculum licensing fees and all project materials for the year.

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Intro to Strings (3rd - 7th Grades):

Beginners/Students will be able to choose from violin, viola, cello or upright string bass. They will need to provide their own instrument, music stand and method book selected by the teacher. Students will learn to play their instrument in a classroom group environment with two performance opportunities throughout the year. Lessons will include some music history and theory. No musical experience necessary.

NOTE: Students will need to bring their own music stand and instrument to every class.

Required textbook: TBD

Instructor: Kim Finnigan

Enrollment: Minimum 5 students and Maximum 15 students
Class Time: 1:30-2:20 pm (5th period)
Materials Fee: \$10 per student
Cost: \$7 per student, per class
(\$70 for a 10 week session and \$56 for an 8 week session)

Through the Wardrobe: C.S. Lewis Literature (7th - 10th Grades):

Is it time for your teen to revisit C. S. Lewis' wonderful world of Narnia? Homeschooling high schoolers should revisit these great books in order to study the theological and philosophical concepts imbedded in the stories. We will begin by learning about Lewis in *Surprised By Joy*. As we read *The Chronicles of Narnia*, your teens will gain experience in inferential and critical thinking skills, build richness in their knowledge and understanding of their relationship with God, gain understanding of the basic philosophic concepts that drive our Western culture, understand C.S. Lewis' life and world. We will also read other Lewis books as time allows. This will be a discussion based literature class.

NOTE: It is recommended but not required that you register your student for all 3 sessions.

Instructor: BeckiJo Disney
Enrollment: Minimum 5 students, Maximum 15 students
Class Time: 1:30-2:20 pm (5th period)
Materials Fee: \$10
Cost: \$6.50 per student, per class
(\$65 for a 10 week session and \$52 for an 8 week session)

2:30-3:20 pm - 6th Period

Advanced Strings (7th - 12th Grades):

Prerequisite: Students must pass an audition requirement to participate in the advanced strings class. Prior experience is required. Students will be able to continue study on their chosen string orchestra instrument (violin, viola, cello, bass). They will learn repertoire throughout the school year with two performance opportunities throughout the year. This class will be available for grades 3-12.

NOTE: Students will need to bring their own music stand and instrument to every class.

Required textbook: TBD

Instructor: Kim Finnigan
Enrollment: Minimum 5 students and Maximum 15 students
Class Time: 2:30-3:20 pm (6th period)
Materials Fee: \$10
Cost: \$7 per student, per class
(\$70 for a 10 week session and \$56 for an 8 week session)

Classical Afternoon Basket (3th - 6th Grades):

This elementary level class is designed to allow homeschooled students to participate in classical Charlotte Mason "morning time" activities with a group of peers, only in the afternoon! Each week students will gather together to study classical topics such as composer study, art history, poetry, and weekly recitations. This class will also provide ideas for enrichment, for those who wish to expand on the themes at home. The teacher will draw from materials including Veritas Press, Memoria Press, classical music and traditional children's literature. This class can be enjoyed both by artsy types and those who are a bit intimidated by drawing, painting or playing an instrument. Appreciation of the arts is the objective of this course. This course can be applied toward fulfillment of a fine art credit for elementary grades.

Instructor: Christina Rodriguez

Enrollment: Minimum 8 students and Maximum 16 students

Class Time: 2:30-3:20 pm (6th period)

Materials fee: \$15

Cost: \$8 per student, per class

(\$80 for a 10 week session and \$64 for an 8 week session)

Computer – Intermediate CADD (Computer-aided Drafting and Design) (6th-12th Grades):

A continuation of the Computer-Aided Drafting and Design (CADD) – Intro course (see description), this year-long course will emphasize more advanced two-dimensional (2D) and three-dimensional (3D) design and modeling, including animated simulations and photo-realistic rendering. Applications to geometry, engineering, architecture, home-remodeling, interior design, carpentry, etc will be included. FREE computer software such as Google SketchUp8 will be utilized. MSPysics, a free plug-in software program for SketchUp, will allow students to create realistic simulations and animated models on the computer screen. TwilightRender, another free program, will allow students to create photo-realistic models. Tremendous side benefits of the CADD course include enhancing 3D visualization skills, the knowledge of both plane and solid geometry, problem-solving skills and strategic planning. Students will need access to a laptop or notebook computer. All software, plug-ins, tutorials, and videos will be provided by the instructor. This intermediate CADD course assumes completion of the introductory CADD course, and is suitable for middle and high school students.

Instructor: David Zolin

Enrollment: Minimum 10 students and Maximum 20 students

Class Time: 2:30-3:20 pm (5th period)

Materials Fee: \$10 per student, per year

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Cooking (6th - 8th Grades):

Crack an Egg Cooking Studio is an after school enrichment program offering children the opportunity to have fun in the "kitchen" classroom while learning. The basic overview is to teach children the fundamentals of cooking in a safe, hands on educational environment which encourages learning, teamwork, discovery and creativity. Classes center around holidays, seasonal foods, gardening and

different cultures. Additionally, some classes will crossover into science and history. The children will blend, measure, mix, sift, stir and bake their way through the class! ALL NEW RECIPES.

Instructor: Carolanne Kappus

Enrollment: Minimum 8 students and Maximum 12 students

Class Time: 2:30-3:20 pm (6th period)

Materials Fee: \$30 per student, per year

Cost: \$10 per student, per class

(\$100 for a 10 week session and \$80 for an 8 week session)

Lit N Comp (4th-6th Grades)

Every child becomes a reader when a good book is in their hands. In this class, we will explore a variety of genres and follow each book with a writing assignment that correlates with the novel. Some book choices will be Frindle, The Family Under the Bridge, The Boy in Striped Pajamas, Number the Stars, Hatchet, Wonder, and Shiloh. As always, if some of my students have already read these, there will be a back- up plan with other choices. Come grow your vocabulary, discuss challenging topics, and learn how the life experiences of each author is evident in his writing.

Instructor: Jan Null

Enrollment: Minimum 6 students and Maximum 18 students

Class Time: 2:30-3:20 pm (6th period)

Cost: \$6.00 per student, per class

(\$60 for a 10 week session and \$48 for an 8 week session)

Physical Education (3rd - 6th Grades):

This class will focus on skill development through games and activities that promote cooperation and teamwork.

NOTE: THIS IS A SESSION-BY-SESSION CLASS (class can be taken for 1, 2 or 3 sessions).

Instructor: Diane Flanscha

Enrollment: Minimum 8 students and Maximum 15 students

Class Time: 2:30-3:20 pm (6th period)

Cost: \$6.50 per student, per class

(\$65 for a 10 week session and \$52 for an 8 week session)

Photography/Yearbook Project (8th - 12th Grades):

During this 28 week class students will work to create a yearbook for the LAF co-op. During class students will learn about basic camera skills, composition and editing. Using the information learned during the course your child will create at least one page layout for the yearbook using their own images.

NOTE: A camera and subscription to Picmonkey for either a laptop or home computer is needed. It

is beneficial to own a laptop, but not necessary.

Instructor: Erin Dickson

Enrollment: Minimum 10 students and Maximum 20 students

Class Time: 2:30-3:20 pm (6th period)

Materials fee: \$10

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

Science – Environmental Science (7th - 12th Grades):

Stewardship /n/ : the job of supervising or taking care of something. We are in a position of stewardship for the Earth. In order to perform our task well, we must be informed. Focus on the earth systems and resources, the living world, population, land and water use, energy resources and consumption, pollution, and global change will allow us some insight into this planet we live on. While this class is geared toward high school students, the content and concepts are appropriate for middle school students as well. Students have the option to add on a bit of coursework to prepare for the AP Environmental Science Exam in May. THIS COURSE IS NOT AN AP COURSE, but it will help prepare students to be successful on the exam.

Required textbook: Holt Environmental Science ISBN #0030520193 (available as a pdf download).

Additional AP materials: Cracking the AP Environmental Science Exam 2017 ISBN: 1101919922

Instructor: Brianne Good

Enrollment: Minimum 8 students and Maximum 20 students

Class Time: 2:30-3:40 pm (6th period)

Materials Fee: \$20

Cost: \$7per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

WriteShop I (6th - 10th Grades):

In WriteShop 1, assignments give students a chance to practice various kinds of writing, including creative, expository, narrative, and persuasive. With each lesson, they'll learn new skills, apply them to their current writing project, and edit and revise the composition several times. By the end of the lesson—after brainstorming, writing, editing, and revising—they'll have a polished paper to be proud of! This class is geared toward 6-10 grade students, and offers them a strong foundation in basic writing skills.

Required textbook: *Writeshop 1 Student Workbook* ISBN: 9781935027331

Instructor: Randi Marchant

Enrollment: Minimum 6 students and Maximum 20 students

Class Time: 2:30-3:20 pm (6th period)

Cost: \$7 per student, per class

(\$70 for a 10 week session and \$56 for an 8 week session)

