

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. The administrative team has done everything possible to keep costs to a minimum. 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.

High School (9th-12th Grade)

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)

Cost: \$8 per student, per class

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

Holocaust Studies (9th - 12th Grades):

After the discovery of the senseless slaughter, imprisonment, and torture of innocent people, the world stood together and declared, "Never Again!" From that time on, the world has devoted itself to ensuring that the crimes of Nazi Germany are never repeated. Stories are told, books are written, and the memory of a nation's horrors are not quickly forgotten. But what led to the genocide of the Jewish people? How was Hitler able to successfully carry out a widespread massacre with national support or silence? The Holocaust didn't happen overnight. Join us as we look beyond the crimes of genocide and into the reasons as to why it happened. "Never Again" starts with "Why." It starts with how a failed artist was able to consolidate power and become one of the most evil men in all of history. Some of the aspects discussed in this class will be graphic. We also will be visiting the Holocaust Museum in Washington, D.C., and watching the movie, Schindler's List.

Instructor: Zachary Vincent
Enrollment: Minimum 6 students and Maximum 15 students
Class Time: 9:00-9:50am (1st period)
Materials fee: \$15
Cost: \$6.50 per student, per class
(\$65 for a 10 week session and \$52 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)

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

Consumer Math (9th - 12th Grades):

Balance your checkbook. Do you want stocks or bonds? You can have 0% interest for 36 months, or 3.9% interest for 72 months, which do you want? Cash or card? Pay your taxes. Save for a house. Invest in your future. If this sounds overwhelming, this class is for you. We will cover the math needed to successfully live in the adult world. We will learn about investing, interest, credit, taxes, and much more. The math covered in this class is the math that adults use on a regular basis. We will finish off the year by planning an imaginary trip somewhere. The students will pick the place, what they do, and how they get there. There will be competition to see who went the farthest, who was away the longest, who used the most forms of transport, etc.

Textbooks: Why Didn't They Teach Me This in School?: 99 Personal Money Management Principles to Live By 978-1481027564 and Math for Real Life for Dummies 978-1118453308

Instructor: Brianne Good
Enrollment: Minimum 8 students and Maximum 20 students
Class Time: 10:00-10:50am (2nd period)
Materials fee: \$15
Cost: \$7 per student, per class
(\$7 for a 10 week session and \$56 for an 8 week session)

Computer – Python, Robotics & More (6th - 12th Grades):

This course is intended to introduce computer science concepts to students and explore how computer science impacts our daily lives. Lessons will involve using the programming language “python” to explore a variety of topics such as data structures, programming languages, logic, algorithms, Operating Systems, and other related concepts. We will use the RobotLab Box kit, raspberryPi and other resources to explore some of these concepts to provide demonstrations of math and logic in practical applications. We will also apply what we have learned into group and individual contributions that culminate in a practical project that demonstrates the skills acquired during the year. Students will need a laptop to complete lessons and follow along in class. Instructor: Jeff Ruff.

Instructor: Jeff Ruff

Enrollment: Minimum 8 students and Maximum 16 students

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

Materials fee: TBD

Cost: \$8 per student, per class

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

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

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)

Great Books (9th - 12th Grades)

What is a Great Book? How does a book even get to be in a category where the very term “Great Books” is capitalized? How can reading and discussing the so called Great Books possibly help students in the practical matters of their life? Why would homeschool parents force their high school students to read these “tedious” works of literature? All these questions and more will be answered in our year of reading and discussing together a few of the Great Books from the **modern time period (1850-present)**. This class will employ the Socratic Method, which is to say that the success of the class will rely **heavily** on the students being prepared for class ahead of time and being ready to discuss (**out loud**) what we are all reading together. Students will learn to identify themes and worldviews throughout literature. They will analyze and synthesize ideas and arguments. They will learn that ideas matter because ideas have consequences. They will become more active learners. If the class is completed as outlined in the syllabus, they will earn a full high school credit in Literature.

This class assumes that “All truth is God’s truth”, and that His truth may be found in all of His creation, including in the area of literature. The Word of God is relevant to history, literature and to our life. The student will grapple with his own worldview and will begin to understand that he needs to “own” his/her own worldview as a mature adult. Believe it or not, a study of the Great Books is a very useful tool in moving toward this goal!

Note: We will read and discuss about 7-8 Great Books over the course of the year. The list will include such works as Huckleberry Finn, Animal Farm, Origin of the Species, works by Leo Tolstoy and Dostoyevsky, possibly Moby Dick and a couple others. (subject to change) A full reading list including the exact editions required for class will be available to registered students by June 1, so that purchases may be made over the summer.

Instructor: Julie Coggins

Enrollment: Minimum 6 students and Maximum 12 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)

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)

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.

Required textbook: TBD

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)

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.

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

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 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)

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)

Civics – Constitutional Literacy (9th - 12th Grades):

In the United States, loyalty is not a matter of allegiance to a ruler, a flag, or even to our homeland. Loyalty is measured by faithfulness to the Constitution of the United States. The Constitution was formed by the Founding Fathers by the authority of the people, and it was expected that We the People would be vigilant to vote out of office those leaders who fail in their sworn duty to preserve, protect, and defend the Constitution. Yet for years, Americans have remained silent as the federal government takes more and more power for itself while encroaching on the freedoms of citizens. In this high-school-level course we will use the DVDs by Dr. Michael Farris, founder and chancellor of Patrick Henry College and chairman of the Home School Legal Defense Association. He brings the U.S. Constitution to life for modern Americans by examining these questions: What does the Constitution actually say? What does it mean? What were the Founders' intentions for this document? And how is it being interpreted to shape our laws and way of life today? We will watch the 20-minute videos, we will engage in discussions and use the workbook to enhance learning.

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: 2:30-3:20 pm (6th 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 – 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)

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: \$7 per 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)