

# **Calvary Chapel Fluvanna Homeschool Co-op**

## **Course Descriptions**

### **2022-2023 Academic Year**

Welcome to the 2022-2023 Wednesday Homeschool Co-Op at Calvary Chapel Fluvanna. This document gives a summary of all the classes being offered for the next academic year. If you have any questions, please contact Gabi Dech at [gabidech@gmail.com](mailto:gabidech@gmail.com).

The course offerings are divided by subject with the exception of the preschool through early elementary class offerings. Class fees are also listed (including a one-time materials fee in many cases). Please use this guide to help you select the class(es) for your child(ren). While we will do our best to accommodate everyone's choices, please understand that some classes may fill up more quickly than others. When that happens, we will begin waiting lists and will add your child(ren)'s name(s) to those lists in the order that the requests were received.

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# Classes for Little Learners

## ●Around the World for Little Explorers (for students aged 4 to 6)

**Teacher:** Debbie Merrow

**Time:** 9:00 - 9:50 AM

**Maximum Class Size:** 10

We will gather together to learn about a different country every week. Together we will explore new places in God's beautiful world through stories, songs, movement, art, games, food and more.

### **Around the World for Little Explorers Course Fees:**

Tuition: \$20 per student /month or \$100 for first semester; \$80 for second semester/ \$180 per year

Materials: \$15

## ●Early Reading / Letter of the Week

(for students preK4-1st grade, but age exception requests will be considered on a case by case basis. Please email Mrs. Miller for those requests).

**Teacher:** Karen Miller

**Time:** 11:00 - 11:50 AM

**Maximum Class Size:** 12

Letter of the Week is a course designed to give your student a head-start on preparing for reading fluency! This class will be full of educational activities that focus on letter recognition, sounds, pre-writing practice, and all the necessary fine-motor skills that will be required for your student to be ready for elementary reading!

### **Early Reading/Letter of the Week Course Fees:**

Tuition: \$20 per student/month or \$100 for first semester; \$80 for second semester/ \$180 per year

Materials: \$40

## ●Character Counts for Preschoolers

(for students preK4-1st grade, but age exception requests will be considered on a case by case basis. Please email Mrs. Miller for those requests).

**Teacher:** Karen Miller

**Time:** 10:00 - 10:50 AM

**Maximum Class Size:** 12

Join us for "Character Counts" where young students can explore foundations of character through games, activities, crafts, snacks, read alouds, puppet shows, and more. We will focus on different character traits every 2-3 weeks (such as, but not limited to, honesty, respect, kindness, self-control, responsibility, initiative, contentment) as well as learn more about what God desires to teach us about character through the seasons. This class is a great chance for children to make friends, learn through creative/outdoor play, and develop a love of learning, all while being introduced to the homeschool co-op environment.

### **Character Counts Course Fees:**

Tuition: \$20 per student/month or \$100 for first semester; \$80 for second semester/ \$180 per year

Materials: \$40

## ●STrEaMers (for students in grades 1 to 4)

**Teacher:** Karen Miller

**Time:** 9:00 - 9:50 AM

**Maximum Class Size:** 15

S.T.E.A.M. stands for Science, Technology, Engineering, Art and Math. This class is a balance of both STEAM activities with a Reading / literary component. Consider this a book club with a spin. The students will listen to great literary picks with weekly or bi-weekly STEAM activities. The main goals of this course are: have fun, let them lead, let them make decisions, and encourage level-based learning. \*A fluent reading ability is not necessary. All books will be read in class by the teacher.

\*Material fees will cover all the usable components such as, tape, pipe cleaners, cardboard, coloring utensils, scissors, paper, popsicle sticks, rubber bands, pom-poms, books, etc.. There are no additional textbooks and no outside homework assignments (except possibly an end-of-the-year project). Donations of paper towel rolls, toilet paper rolls, and the like are always appreciated.

### **STrEAMers Course Fees:**

Tuition: \$20 per student/month or \$100 for first semester; \$80 for second semester/ \$180 per year

Materials: \$40

# Math Classes

## ●Middle School Math (grades 6-8)

**Teacher:** Mark Brennan

**Time:** 11:30 AM to 12:45 PM on Mondays\*

1:00 - 1:50 PM on Wednesdays

**Maximum Class Size:** 20

**Prerequisite:** 6th grade-level math

*\*This class will meet two days per week, on Mondays and Wednesdays.* Students should expect to have 4-5 hours of homework per week.

This class will prepare students for PreAlgebra and Algebra. Subjects covered include the following:

- Numbers and number sense: fractions, exponents, absolute value, perfect squares and square roots, comparing and ordering rational numbers.
- Computation and estimation: solve practical problems with real numbers, and solve single-step and multistep practical problems using proportional reasoning.
- Measurement and geometry: practical problems involving volume and surface area of cylinders and rectangular prisms, practical problems involving corresponding sides and angles of similar triangles and quadrilaterals, applying translations and reflections of right triangles and rectangles in the coordinate plane.
- Probability and statistics: investigate theoretical and experimental probability of events; create and interpret histograms, stem-and-leaf plots, circle graphs, and line plots.
- Patterns, functions, and algebra: determine slope as a rate of change and y-intercept for linear functions ( $y = mx + b$ ), and make connections between additive and proportional relationships for linear functions; evaluate expressions for given replacement values of variables; solve two-step equations in one value including practical problems; solve one- and two-step inequalities, including practical problems, and graph solutions on a number line.

### **Middle School Math Course Fees:**

Tuition: \$50 per month/\$250 for first semester; \$200 for second semester/\$450 for the entire year.

Materials Fee: \$20

**Textbook:** There will be a textbook as yet to be determined.

## ● Algebra I (grades 8-12)

**Teacher:** Rebecca Schmitz

**Time:** 10:00 - 11:15 AM on Mondays\*  
10:00 - 10:50 AM on Wednesdays

**Maximum Class Size:** 30

**Prerequisite:** Students must have successfully completed eighth grade level math.

*\*This class will meet two days per week, on Mondays and Wednesdays.*

This class provides the foundation required for critical thinking and problem solving. Students will learn algebraic concepts through a variety of teaching strategies including manipulatives, examples, and problem sets. To ensure adequate teaching time to complete the entire algebra curriculum, this class will meet twice a week, Mondays and Wednesdays. All students who have successfully completed middle school math are welcome.

### **Algebra I Course Fees:**

Tuition: \$50 per month or \$250 for first semester and \$200 for second semester/\$450 for the entire year  
Materials Fee: \$35

## ● Algebra II (grades 10-12)

**Teacher:** Mark Brennan

**Time:** 10:00 - 11:15 AM on Mondays\*  
10:00 - 10:50 AM on Wednesdays

**Maximum Class Size:** 20

**Prerequisite:** Algebra I

*\*This class will meet two days per week, both Mondays and Wednesdays.* Students should expect to have 4-5 hours of homework per week.

Subjects covered include the following:

- Expressions and operations: add, subtract, multiply, divide and simplify rational and radical expressions, including exponents; factoring polynomials; and performing operations on complex numbers.
- Equations and inequalities: absolute value linear equations and inequalities, quadratic equations, equations containing rational and radical expressions; and systems of linear and quadratic equations.
- Functions: arithmetic and geometric sequences; absolute value, square root, cube root, rational, polynomial, exponential, and logarithmic function families.
- Statistics: collect and analyze data to determine curves of best fit to make predictions and solve practical problems; represent and solve problems involving inverse variation, joint variation, and a combination of direct and inverse variations; identify and describe properties of normal distribution; interpret and compare z-scores; apply properties of normal distributions to determine probabilities; compute and distinguish between permutations and combinations.
- Basic trigonometry: right triangles and trigonometric functions; application of right triangles; radian measure.

### **Algebra II Course Fees:**

**Tuition:** \$50 per month or \$250 for first semester; \$200 for second semester/\$450 for the entire year.

**Materials Fee:** \$20

**Textbook:** There will be a textbook as yet to be determined.

● **Geometry (grades 9-12)**

**Teacher:** Rebecca Schmitz

**Time:** 11:30 AM - 12:45 PM on Mondays\*  
1:00 - 1:50 PM on Wednesdays

**Maximum Class Size:** 30

**Prerequisite:** Students must have successfully completed Algebra I.

*\*This class will meet two days per week, on Mondays and Wednesdays.*

In this class students will learn and practice logic and analytical skills through exercises in Geometry. Topics covered will include working with points, lines, planes, and other basic geometric figures; angles, arcs, and circles; right triangles, proofs, and reasoning. Concepts from this course show up on the ACT and the SAT. To ensure adequate teaching time to complete the entire geometry curriculum, this class will meet twice a week, Mondays and Wednesdays. All students who have successfully completed Algebra I are welcome.

**Geometry Course Fees:**

Tuition: \$50 per month or \$250 for first semester and \$200 for second semester (\$450 for the entire year)

Materials Fee: \$35

# Language Arts Classes

## ● Literature (grades 6-8)

**Teacher:** Dana Catlett  
**Time:** 2:00 - 2:50 PM  
**Maximum Class Size:** 10

We learn the most from books when we read them closely, thinking about what the book says and about the ideas being conveyed, and working out our own thoughts in response to those ideas. To that end, we'll "close read" some classic works, conversing with the book and with each other and responding to the book in writing. Writing assignments will be a combination of journaling, short answer responses to specific questions, and longer responses in essay form as we complete each book. We will read one book per month, and we will look at some poems and short stories if time permits.

Possible books:

*Captains Courageous*

*Old Yeller*

*The Hobbit*

*Anne of Green Gables*

*Across Five Aprils*

*Where the Red Fern Grows*

*The Lion, the Witch, and the Wardrobe*

### **Literature Course Fees:**

Tuition: \$30 per month or \$150 for first semester and \$120 for second semester (\$270 for the year).

Materials Fee: Students will be expected to provide their own copies of the books we will read.

## ● Literary Analysis and Composition (grades 9-12)

**Teacher:** Jenifer Flathers  
**Time:** 9:00 - 9:50 AM  
**Maximum Class Size:** 15

**Prerequisite:** Students should have the ability to write a simple paragraph.

This course will teach students how to read, infer, analyze, and write about literature. Additionally, it acknowledges the power of literature to influence readers for good or for ill. It will help students analyze an author's worldview and respond to it based on their own worldview. We will observe the literary devices and techniques used by good writers, and develop through step-by-step training, the ability to write a precise thesis and supporting literary analysis essay. We will practice these skills using a sampling of American literature, including 3 novels, some short stories, and poetry. We will discuss the readings in class, and written assignments will include short answer worksheets, outlines, quizzes, & paragraph writing, as well as short essays as we complete each novel.

**Homework:** Independent reading and writing will require approximately 1 hour per day in between classes. Along with using the *Windows to the World Student Workbook*, the books we will be reading are: *To Kill a Mockingbird*, *The Hiding Place*, and *Wherever the River Runs*.

(These titles will be purchased by Mrs. Flathers so that everyone uses the same publication. Parents only need to order the student textbook.)

**Credits Earned:** 1 English Credit (approximately 160 hours of reading and study for 32 weeks)

**Literary Analysis and Composition Course Fees and Materials:**

Tuition: \$30 /month or \$150 for first semester; \$120 for second semester (\$270 for the year)

Materials Fee: \$35 (This covers the cost of 3 books we will read, in addition to the textbook)

**Text(s):** Windows to the World – *An Introduction to Literary Analysis*, (**Student Book**)

Through [www.iew.com](http://www.iew.com) ISBN: 978-0-9801005-1-8 (\$29) or

[www.rainbowresource.com](http://www.rainbowresource.com) Item # 042561 (\$29)

**Class Supplies:** 3-ring binder, college-ruled paper, notebook divider tabs (5), ability to print from home.



# Science Classes

## ● Explore Creation Science (grades 3-6)

**Teacher:** Adrienne Vanderveer

**Time:** 8:00 - 8:50 AM

**Maximum Class Size:** 16

From dirt to dolphins, minerals to manatees and clouds to clams, young scientists will explore and deepen their knowledge of the world around them. Through guided experimentation, thought-provoking discussion, teacher and guest-led demonstrations and other skill-building activities, they will begin to familiarize themselves with age-appropriate scientific method and the spectacular designs of Creation. With the intention of a 4-yr.cycle for this class, students will be expected weekly to read (or be read to) assigned portions from one of our two texts *Apologia Exploring Creation with Earth Science* and *Apologia Exploring Creation w/Zoology 2: Swimming Creatures of the Fifth Day* (both can be purchased as used books) and to complete any hand-outs or other homework assignments prior to class (avg. 1½- 2 hours/week) Additional work will include a once/semester report, and associated field trips will be organized by the teacher.

### **Explore Science Course Fees:**

**Tuition:** \$25/month or \$125 for first semester and \$100 for second semester (\$225 for the year)

**Materials Fee:** \$50

## ● High School Biology (grades 9-12)

**Teacher:** Terrie Wood

**Time:** 2:00 - 2:50 PM Class Session

3:00 - 3:50 PM Lab/Activity Session

**Maximum Class Size:** 15

Welcome to the science of life! We will be learning about our Father's creation using the major theme of "awe and wonder".

Included in our studies will be the awe and wonder of:

- The nature of science and the scientific method
- The chemistry of life
- What constitutes living things as opposed to non living things and their interactions and dependencies
- The organization of life
- The cell and its many functions and processes
- The history and application of Mendelian genetics and other interests in inheritance
- The classification of organisms
- Creation vs. evolution – a comparison and discussion including how populations change over time and what mechanisms may be involved
- Populations, communities and ecosystems

Due to the amount of subject matter, this course will meet for two fifty minute periods. The first 50 minute period will focus on the assigned reading concentrating on review and understanding, while taking notes and having discussion.

The second 50 minute period will be for application of the content from the lecture and discussion which may be a laboratory investigation, an inquiry based activity and sometimes a short trip around the grounds to see God's awe and wonder at work!!

**High School Biology Course Fees:**

**Tuition:** \$35/month or \$175 for first semester and \$140 for second semester (\$315 for the year)

**Materials/Lab Fee:** \$20

**Textbook:** There will be a textbook as yet to be determined.

# History Classes

## ● Early Modern U.S. and World History (grades 3-6)

**Teacher:** Adrienne Vanderveer

**Time:** 11:00 - 11:50 AM

**Maximum Class Size:** 16

“Once upon a time...” and “long, long ago...” is not merely the stuff of fairy tales and fables. Utilizing *Remember the Days* text from BiblioPlan, various enrichment activities and challenging discussion, young historians will cover U.S. and world events from the New World colonists to the California Gold Rush (1600-1850). They will be encouraged to recognize the inspirational people from this era in history, and they will be challenged to observe the events and outcomes through the lens of a Biblical worldview. \*\*Homework will include one chapter per week in text (purchased separately at special discount) plus Q&A and maps booklets, included with materials fee—2-3 hours/week).

### **Early Modern U.S. and World History Course Fees**

**Tuition:** \$25/month or \$125 for first semester and \$100 for second semester (\$225 for the year)

**Materials Fee:** \$50

## ● Virginia in American History (grades 6-8)

**Teacher:** Jenifer Flathers

**Time:** 10:00 - 10:50 AM

**Maximum Class Size:** 15

This class focuses on Virginia in the larger context of the American Enterprise. We will learn about Virginia’s history, geography, culture, and economy, as well as the significant role Virginia has played from our nation’s founding to the present. Our learning will consist of class readings and discussion, some independent reading, research and hands-on projects, and possibly some opportunities for field trips (on non co-op days.) Together we will learn about Native Virginians, early Virginia settlements, our Colonial Period, and America’s Virginian Founding Fathers, as well as Virginia’s involvement in the Civil War, Reconstruction, the Great Depression and the CCC, the Civil Rights Movement, and the Space Program of the 20th century. Join us and discover all about the great state we live in as well as our fascinating American history!

### **Virginia in American History Course Fees:**

**Tuition:** \$30 / month or \$150 for first semester and \$120 for second semester (\$270 for the year)

**Materials Fee:** No fee, but there may be potential costs associated with optional field trips

**Supplies:** Students should have a 3-ring binder, notebook paper, notebook divider tabs, and colored pencils for this class.

**Textbook:** TBD

## ● U.S. Government (grades 10-12)

**Teacher:** Dave Blaha

**Time:** 11:00 - 11:50 AM

**Maximum Class Size:** 20

In this course we will explore the major aspects of U.S. federal, state, and local government. Included in the course are -

- \* Foundations of American government originating in Judeo-Christian tradition, the Enlightenment, and royal democratic government in England
- \* The construction of the U.S. Constitution and the Bill of Rights
- \* The birth of a Constitutional Republic
- \* Representative Democracy, Elections, and the Electoral College
- \* Structures and responsibilities of the Legislative, Judicial, and Executive branches of federal government
- \* Role of political parties
- \* Federalism and division of power
- \* Virginia State government structure
- \* Role of local government
- \* Civic responsibility

### **U.S. Government Course Fees:**

**Tuition:** \$20/month or \$100 for first semester and \$80 for second semester (\$180 for the year)\*

**\*Please make your payment to CCF**

**Materials:** No fee

# World Language Classes

## ● Middle School Spanish (beginner level) (grades 6-8)

**Teacher:** Karmen Basinger

**Time:** 9:00 - 9:50 AM

**Maximum Class Size:** 12

This class is intended to create a foundation for the Spanish language. Students will learn to count, introduce themselves, exchange personal information, ask important questions, and more. They will also gain a deeper understanding of Spanish speaking cultures. Karmen learned the Spanish language at 10 years old, when she and her family served as missionaries in Ecuador.

### **Beginner Spanish Course Fees:**

**Tuition:** \$20/month or \$100 for first semester and \$80 for second semester (\$180 for the year)

**Materials Fee:** None

## ● Introduction to World Languages (grades 8-12)

**Teacher:** Linda Fletcher

**Time:** 4:30 -5:30 PM (please note this class will run for an hour)

**Maximum Class Size:** 20

This class, although focused on world languages and linguistics, integrates history, geography, sociology and theology in order for students to have a comprehensive view of the peoples and languages present in today's world. Students will begin by exploring the nature of language and grapple with the mystery of its origin, and then learn about current world demographics and trends, including which languages are most popular and why. We will then work our way up the timeline of civilizations investigating the history, culture (including tenets of faith for the five major world religions), and languages of Mesopotamia, Egypt, Indus Valley, China, Hebrew, Arabic people, Rome, Greece, Korea, Japan, and Russia. Students will practice writing non-roman alphabets, and be trained to transliterate and recognize cognates across languages.

### **Introduction to Languages of the World Course Fees:**

**Tuition:** \$20/month or \$100 for first semester and \$80 for second semester (\$180 for the year)

**Materials Fee:** No fee

**Supplies:** Students need to bring something to write with and paper to this class.

# Bible Study Classes

## ● Bible and Memory (grades 8-12)

**Teacher:** Margaret Estes

**Time:** 2:00 - 2:50 PM

**Maximum Class Size:** 3 minimum

Prepare to memorize, study and discuss 1 Peter in a fun and interactive manner! Store up God's Word in your heart so you are ready to stand firm in the faith in these last days. We will be using Kay Arthur's Precept study book:

<https://www.christianbook.com/living-with-discernment-the-end-times/kay-arthur/9780736904469/pd/04468?event=Bible-Studies|1008077>

Together we will work on memorizing as much of 1 Peter as possible using chants, rhythms and tunes.

**Bible and Memory Course Fees:**

**Tuition:** \$10/month or \$50 for first semester and \$40 for second semester (\$90 total)

**Materials Fee:** \$10

# Art Classes

## ● Great Little Words of Art (for students in K through 2nd grade)

**Teacher:** Adrienne Vanderveer

**Time:** 10:00 - 10:50 AM

**Maximum Class Size:** 14

Your young artists will first settle in for a class read-aloud, which will promote focus on the story itself, but also on the styles, media and artistic principles utilized by the illustrator. We will make connections with other artists from the past and present and learn about the basic artistic elements of line, color, shape, texture, value, form and space. Finally, we will roll up our sleeves to engage in various kinds of two and three-dimensional projects, utilizing a variety of fun materials to deepen the connections between well-written words and creative self-expression. We will get messy!

This class is meant to be taught in a 3-year cycle with different projects. Sketchbook is included with materials fee.

**Great Little Words of Art Course Fees:**

**Tuition:** \$25/month or \$125 for first semester and \$100 for second semester (\$225 for the year)

**Materials Fee:** \$40

### ●Great Words of Art (grades 3-5)

**Teacher:** Adrienne Vanderveer

**Time:** 9:00 - 9:50 AM

**Maximum Class Size:** 14

Your young artists will first settle in for a class read-aloud, which will promote focus on the story itself, but also on the styles, media and artistic principles utilized by the illustrator. We will make connections with other artists from the past and present and learn about the basic artistic elements of line, color, shape, texture, value, form and space. Finally, we will roll up our sleeves to engage in various kinds of two and three-dimensional projects, utilizing a variety of fun materials to deepen the connections between well-written words and creative self-expression. We will get messy!

This class is meant to be taught in a 3-year cycle with different projects. Sketchbook is included with materials fee

#### **Great Words of Art Course Fees:**

**Tuition:** \$25/month or \$125 for first semester and \$100 for second semester (\$225 for the year)

**Materials Fee:** \$50

### ● Exploring the Bible Through Art (grades 6-8)

\*We are offering two sections of this class!\*

**Teacher:** Madeline Vollmer

**Times offered:** 11:00 - 11:50 AM

**Maximum Class Size:** 20

Students will explore arts and crafts through project-based activities, such as drawing, painting, and mixed media. The inspiration for the course content will come from the Bible, starting in Genesis and ending in Revelation.

#### **Exploring the Bible Through Art Course Fees:**

**Tuition:** \$25/month or \$125 for first semester and \$100 for second semester (\$225 for the year)

**Materials Fee:** \$30

### ● Advanced Drawing (grades 9-12)

**Teacher:** Madeline Vollmer

**Time:** 3:00 - 3:50

**Maximum Class Size:** 20

Students will learn the fundamentals of 2D design, learn new drawing techniques, and strengthen their drawing skills using various materials and processes.

#### **Advanced Drawing Course Fees:**

**Tuition:** \$25/month or \$125 for first semester and \$100 for second semester (\$225 for the year)

**Materials fee:** \$20

# Music Classes

## ● Exploring Music (Grades 6-12)

**Teacher:** Rebecca Schmitz

**Time:** 8:00 - 8:50 AM

**Maximum Class Size:** 30

Exploring Music - This class explores music history and theory concepts. Through reading, listening to music, and playing games, students will learn about the lives of composers and their music, as well as musical time periods, different instruments, and music theory concepts. All students, regardless of musical background, are welcome.

### **Exploring Music Course Fees:**

**Tuition:** \$25/month or \$125 for first semester and \$100 for second semester (\$225 for the year)

**Materials Fee:** \$35



# Physical Education Classes

## ●Physical Education (all ages)

**Teachers:** Matt Basinger and Stephen Brennan

**Times:** 10:00 - 10:50 AM (Grades 3-5)

11:00 - 11:50 AM (Grades 1-3)

1:00 - 1:50 PM (Grades 6-12)

3:00 - 3:50 PM (Grades 6-12)

**Teacher:** Stephen Brennan

**Teacher:** M. Basinger and S. Brennan

**Teacher:** Matt Basinger

**Teacher:** Matt Basinger

**Maximum Class Size:** 25

Students will engage in age-appropriate physical activities including, but not limited to, various active field games, running, hiking, basketball, pickleball, badminton, kickball, etc. Teachers will provide basic instruction in these sports as necessary. These courses will be outside as often as weather permits.

### **Physical Education Course Fees:**

Tuition: \$75 for the semester (please pay Matt Basinger's tuition to CCF; please pay Stephen Brennan's tuition to Stephen Brennan)

No Materials Fee

# Culinary Classes

## ●Culinary (Grades 7-12)

**Teacher:** Stefanie Melton

**Time:** 10:00 - 10:50 AM

**Maximum Class Size:** 10

Learn the basics of cooking and baking. Your child will learn how to safely and correctly use a variety of kitchen appliances and tools as well as make some delicious recipes that they can then come home and make for you!

### **Culinary Course Fees:**

**Tuition:** \$25/month or \$125 for first semester and \$100 for second semester (\$225 for the year)

**Materials Fee:** \$40

# Information Technology

## ●Information Technology: Two courses in one year

1. **CompTIA Information Technology Fundamentals (Ages 14 and older)**
2. **CompTIA Network Technology+ (NET+)**

**Teacher:** Michael Dech

**Time:** 4:00 - 4:50 PM\*

**Maximum Class Size:** 10

**\*Please note that during the second half of the academic year, this class session will likely need to meet from 4:00 to 5:20 PM.**

### **Information Technology Fundamentals Course Description:**

Students will participate in a comprehensive review of the CompTIA pre-professional certification courses Information Technology Fundamentals (ITF+). The course will discuss options for pursuing a career in IT and expose students to key terms, concepts and technologies they will need to know. Topics covered include the basics of: computer systems, IT infrastructure, software development, databases, networks and basic computer security. Taking the certification exam is not required but will be discussed if students are interested and want to attempt it. This course should be taken as a prerequisite to more in-depth IT courses that will be offered during the second half of the academic year.

### **Network Technology+ (NET+) Course Description:**

The CompTIA Network+ course validates the technical skills needed to securely establish, maintain and troubleshoot the essential networks that businesses rely on. It focuses on the essential IT skills and knowledge needed to perform tasks commonly performed by IT network professionals. The course consists of in-class discussion and some online learning activities done at home. Taking the certification exam is not required but will be discussed if students are interested and want to attempt it.

### **Information Technology Course Fees:**

**Tuition:** \$25/month or \$125 for first semester and \$100 for second semester (\$225 total)

**Materials Fee:** \$30 per course (\$60 total)

# Exploratory Wheel

The Exploratory Wheel will meet from 11:00 to 11:50 AM each week and will comprise several “mini” classes through the academic year. Some of these classes will run for a handful of sessions while others might take closer to a quarter of the academic year. The following offerings will be offered this coming academic year. If your child signs up for Exploratory but does not wish to participate in every single exploratory class, he or she is welcome to attend Study Hall while a class is in rotation that s/he wants to skip. S/he can then jump right back into the following exploratory when it commences. **The Exploratory Wheel classes are designed for students in grades 7 through 12.**

## ●Exploratory: Conflict Resolution

**Teachers:** Steve Feden and Jim Haseltine

**Time:** 11:00 - 11:50 AM

**Dates of Course:** September 7 through October 12, 2022 (6 sessions)

Using the student edition of Ken Sande's popular book, "The Peacemaker", our class will explore the area of conflict resolution. Discussion, role playing, and plenty of interaction, should make this class both enjoyable and practical. Since conflict is inevitable in relationships throughout life, possessing superior skills to resolve conflict can reap great rewards. Students should finish the class with some basic skills and understanding of a Biblical approach to pursuing peace in relationships.

### **Conflict Resolution Fees:**

**Tuition:** \$30 (made payable to CCF)

**Materials Fee:** \$13 for the book “The Peacemaker”, student edition (CCF will order this for you; please make your payment payable to “CCF”).

## ●Exploratory: Foundations in Personal Finance

**Teachers:** Sandy Chenail and Heather Saylor

**Time:** 11:00 - 11:50 AM

**Dates of Course:** October 19 - December 14, 2022 (8 sessions)

In this course we will explore personal finance and why it is so important to understand. Topics include budgeting, saving, credit and debt, insurance, taxes, real estate, investing and more! We will look at money from a biblical perspective and discuss being good stewards. We will be using parts of Dave Ramsey's Foundations in Personal Finance curriculum.

### **Foundations in Personal Finance Fees:**

**Materials fee:** \$25 (made payable to Heather Saylor)

**Tuition:** \$40 (made payable to Heather Saylor)

## ●Exploratory: Technical Drawing/Drafting (Grades 7-12)

**Teacher:** John Cooper

**Time:** 11:00 -11:50 AM

**Dates of Course:** January 4, 2022 -February 22, 2023 (8 sessions)

Mechanical drawings are used by the technical world to precisely describe objects, space, and land. Engineers, technologists, and architects use these accurate drawings to construct buildings, electronic circuits, and machinery exactly as the designer plans. Traditional drawings were prepared directly on paper using a t-square, triangles, and pencils. Most modern companies use computers to generate these precise drawings. Computer drawings can be converted directly into digital codes to control robots, CNC machines, and 3-D printings of designed objects.

This mini-course will explore the use of both traditional drafting and modern computer aided drafting for describing the shape of objects. Drawings will be prepared using traditional drafting tools for a few sessions, then switch to computer aided drawing software.

Outline:

1. Introduction to the use of drafting tools (tools provided)
2. Drawing 2-D pictures using metric rules.
3. Describing 3-D objects precisely on a 2-D surface (paper) - Orthographic Projection
4. Layout of Orthographic pictures using traditional drafting tools
5. Introduction to Computer Aided Drafting (students provide laptop - free software is downloaded from internet)
6. Preparing a orthographic projections using Computer Aided Drafting
7. Continue with practice of CAD
8. Demonstration of 3-D printing

**Technical Drawing Course Fees:**

**Tuition:** \$5

**Materials Fee:** No fee; traditional drawing tools will be provided by Mr. Cooper.

**Required Class Supplies:** A couple of No. 2 or 2H pencils (or mechanical with 0.5 mm lead), pink or an art gum eraser, small, plastic protractor and a laptop computer.

## ●Exploratory: Basic Home Maintenance

**Teacher:** Matt Basinger

**Time:** 11:00 - 11:50 AM

**Dates of Course:** March 1 through April 12, 2023 (6 sessions)

This is a 6-week class dedicated to teaching young students how to maintain a home. Tasks such as replacing air filters, water filters, and how to wire an outlet, and how to reset breakers in an electrical panel will be taught. The basics of plumbing, drywall repair and other topics will also be covered during this time. This practical exploratory will leave students with skills they can carry for the rest of their lives.

**Basic Home Maintenance Course Fees:**

**Tuition:** \$30 for the 6 session (please make your payment to CCF)

**Materials Fee:** \$15

## ●Exploratory: Basic Car Maintenance

**Teachers:** Josh Wilson and Phillip Hippert from Trinity Auto (Dave Blaha is the CCF Liaison)

**Time:** 11:00 - 11:50 AM

**Dates of Course:** April 19 through May 24, 2023 (6 sessions)

As students in this age group enter the population of drivers, it is always good to have some car maintenance skills under our belts. Josh and Phillip from Trinity Auto will show students how to change a tire and diagnose and possibly solve some other common car issues. Hands-on practice is part of this course. Don't be afraid to get your hands dirty!

### **Basic Car Maintenance Course Fees:**

**Tuition:** \$20 (made payable to CCF)

**Materials Fee:** None

**Required Class Supplies:** None

## Additional Services

### ●Young Learners' Free Period (preK4 to 5th grade, or up to 10 year olds)

**Teacher:** Tom Guthrie  
**Time:** 8:00 to 8:50 AM  
9:00-9:50 AM  
10:00-10:50 AM  
11:00-11:50 AM

**Maximum Class Sizes:** 10

Supervised play time for kids who don't have a class they are attending during a specific period. This will only be offered during the first 4 periods of the day (from 8am to 12noon). Children must be taking at least 2 other classes in order to utilize this period.

**Young Learner's Free Period Cost:** \$10 per period each month (\$45 per period each semester)\*

**\*Please make payments payable to CCF.**

### ●Study Hall (ages 11 and older)

**Teacher:** Jayna Marcelli  
**Time:** Every hour EXCEPT during lunch (noon to 12:50)

This is a supervised period for students to study and work on school work or homework. Study Hall is open to students who are signed up for a minimum of two co-op classes and may have a gap in their schedule. Students participating in the Exploratory Wheel but not taking each exploratory class can participate in study hall during the weeks needed.

**Study Hall Cost:** \$10 per month and can be paid in full at the beginning of the school year, per semester, or monthly.