

# CALVARY CHRISTIAN ACADEMY

13500 Philmont Avenue Philadelphia, PA 19116 | 215-969-2404 | [cca.ccphilly.org](http://cca.ccphilly.org)



DISCIPLESHIP TRUTH EXCELLENCE

EPHESIANS 4:12-13

"For the equipping of the saints, for the work of ministry, for the edifying of the body of Christ, till we all come to the unity of the faith and of the knowledge of the Son of God."

Ephesians 4:12 -13

**2025-2026**

JR./SR. HIGH SCHOOL  
COURSE SELECTION GUIDE



# Calvary Christian Academy

*Educating Disciples of Christ Ephesians 4:12-13*



Dear Parents:

The purpose of this booklet is to provide you with information that will aid you in taking an active role in your child's academic program. This booklet contains the list of courses we intend to offer during the 2025-2026 school year. Please spend time discussing course options with your son or daughter before making your selections in the course selection portal. Your discussion should take into account the following:

- Prayerful consideration of your child's gifts, abilities, interests, and God's calling on his/her life.
- Post high school academic goals.
- Proper understanding of graduation requirements of CCA.
- Evaluating the progress made toward graduating. Understanding what is required in order to gain admission into the college, university, trade, or career the Lord may be leading your child to.

We trust that this booklet is helpful in providing you with the information necessary to aid you in properly making decisions regarding your child's high school education at Calvary Christian Academy. Please feel free to call the High School Office if you have any questions.

In Christ,

Albert T. Schiavo  
Principal

---

13500 Philmont Avenue | Philadelphia, PA 19116  
Elementary 215-969-1579 | Jr./Sr. High 215-969-2404  
Fax 215-969-9732 | [cca.ccphilly.org](http://cca.ccphilly.org)



## TABLE OF CONTENTS

History .....	7
Mission Statement .....	7
Diversity and Marriage Statement .....	7
Statement of Non-discrimination.....	7
CCA's Philosophy of Education.....	8
Course Selection Information.....	9
How to Register for Classes – Course Selection Portal Instructions .....	10
Dual Enrollment Information .....	11
Glossary of Terms .....	12
Grade Point Average (GPA) Scale .....	13
Graduation Requirements .....	13
JUNIOR HIGH COURSE DESCRIPTIONS.....	14
Junior High Bible Department .....	14
Junior High English Department.....	15
Junior High Science Department .....	17
Junior High Math Department .....	18
Junior High Social Studies Department .....	20
Junior High Foreign Language Department.....	21
Junior High Physical Education Department .....	22
Junior High Electives.....	23
SENIOR HIGH COURSE DESCRIPTIONS.....	25
Senior High Bible Department.....	25
Senior High English Department .....	26
Senior High Science Department.....	31
Senior High Math Department .....	37
Math Progression Chart .....	37
Senior High Social Studies Department.....	42
Senior High Foreign Language Department .....	45
Senior High French .....	45
Senior High Spanish .....	46
Fine Arts Electives.....	47
Drama Electives .....	49
Culinary Arts Electives .....	50
World Language Electives.....	51
Health & Physical Education Electives.....	52
Business, Computers & Information Technology Electives.....	53
Publication & Design Electives .....	55



# Calvary Christian Academy

## History

Calvary Christian Academy was founded in September of 1995 as an educational ministry of Calvary Chapel Philadelphia. The primary goal was to work with Christian families to educate and disciple godly young men and women. The school initially began as a PK through 8<sup>th</sup> grade school and soon after added 9<sup>th</sup> through 12<sup>th</sup> grades in 1997. In 1998, CCA graduated its first class and since that time has seen students enroll in over 100 different colleges and universities including University of Pennsylvania, Pennsylvania State University, Calvary Chapel Bible College, Liberty University, West Point Military Academy, Johns Hopkins University, Cedarville University, Temple University, University of Pittsburgh, and Grove City College. CCA received full accreditation from the Middle States Association of Colleges and Schools and the Association of Christian Teachers and Schools in 2012. Our academic programs are designed to meet the learning needs of the honors student, college prep student and the student working at a more basic level. Special education services are provided in accordance to our special education program and handbook. School electives and after school programs provide opportunities for CCA's students to hone the gifts the Lord has given them in areas of the fine arts, athletics, computer science, and the culinary arts. In 2015, Calvary Christian Academy celebrated 20 years of serving Christ's kids.

## Mission Statement

Our mission is to share in the ministry of Calvary Chapel by offering Christian education from a Biblical worldview, while partnering with parents who have the God-given responsibility to educate their children. We desire to raise up disciples for Christ by promoting academic, social, and spiritual excellence. Equipping students to become a transforming influence on the world for Christ is at the core of a CCA education.

Ephesians 4: 12-13

## Diversity and Marriage Statement

Calvary Christian Academy believes that an individual's first responsibility is to the God of the Bible and that a person's whole life should reflect His framework in a context of peace and selfless love. CCA asserts that a genuine love for and interaction with diverse peoples is a biblical mandate. Moreover, Calvary Christian Academy recognizes that we are all one in the body of Christ. Our standard for diversity is found in the Bible. Individual differences in lifestyle that deny, ignore or reject biblical standards represent diversity in rebellion to God's standards and hence, are unacceptable for the families of CCA. CCA holds to the beliefs as stated in the King James Version of the Bible and asserts that marriage is the union between one man and one woman, and that from the beginning of the creation God made humans in two distinct sexes, male and female.

## Statement of Non-discrimination

It is the commitment of CCA to provide Christian education by and for God's elect, holy and beloved, according to the faith of God's elect, and the acknowledging of the truth that is after godliness, and in that context and for that purpose does not discriminate on the basis of race, color, sex or ethnic background. This policy of non-discrimination is exercised during student admission, hiring of faculty and staff, and all school-administered programs.

### CCA's Philosophy of Education

CCA's Philosophy of Education is based upon a biblical worldview that has been developed out of a literal interpretation of the Bible, as presented in the King James Version. It is impossible to disconnect our learning and development from the power and purposes of our Creator God. At the very core of CCA's worldview and philosophy of education is God's Word. It is the foundation of CCA's philosophical framework. From the origin of man to ethics and morality, we believe all logic and reasoning is based upon the tenets of Scripture. It is upon this premise that Calvary Chapel of Philadelphia built and developed Calvary Christian Academy. The governing bodies of both the school and the church are in full agreement with CCA's Philosophy of Education.

CCA's Philosophy of Education is based upon our biblical worldview and not upon the philosophy of man. All truth is God's truth. God's Word is truth according to the Scripture (John 17:17, KJV) and according to the conviction of the Holy Spirit. As such CCA's Philosophy of Education is defined by the master teacher himself, Jesus Christ. Teaching should be personal and individual. All methods, instructional practices, activities, and assessments should be geared toward allowing learners to better understand the knowledge of God and be better prepared to serve the Lord through successfully navigating and interacting with the world around them. We are set apart for God by understanding His truth; therefore, God must be at the core of all the principles, facts and truths we teach.

CCA develops the curriculum and programs of the school based upon a biblical worldview, which assures the knowledge gained will be based upon God's truth and not just the correlations made by respected men and women of science, history, mathematics, and language. While these respected individuals have made vast contributions to our understanding of the world around us, our understanding is not complete until we filter it through God's Word. Our knowledge of God and His Word should cause us to fear no vain philosophy or body of knowledge. We have real truth in our hearts and in Scripture and with such knowledge and truth we should be able to disprove the fake and vain philosophies of the world. The better we know the creation, the better we know the creator. With a strong biblical worldview the disciplines of math, science, history and language are but a mere platform for believers to express the goodness of God, the truth of His Word and to praise Him for His many blessings. Psalm 19:1 states, "The heavens declare the glory of God; the skies proclaim the work of his hands" (NIV).



## Course Selection Information

The Course Selection Portal opens soon after the end of the 3<sup>rd</sup> Marking Period.

Make sure to check CCA's School Calendar for the date that the Scheduling Portal opens and closes.

Teachers recommend core classes. Class levels are based upon the student's earned year-to-date grade at the end of the 3<sup>rd</sup> Marking Period, class prerequisite grades, and the student's work ethic as it is expressed in class and through their assignments. A student's desire to do better must be reflected during the regular school year. Course placement is based upon evidence, not intention.

Parents may request a change of course or change of class level. If a student is bordering the threshold for the prerequisite grade, the teacher may allow the student until the end of the school year to show evidence of improvement. If the student is not close to the prerequisite grade, the teacher will not be able to approve the request.

Electives are chosen by students but are affected by core course assignments. A core class may be assigned during the same period as a student's first elective choice. Core courses will take priority.

Students are not guaranteed a chosen elective. Students may have to choose an elective based upon what is offered during the open periods in their schedules after core courses have been scheduled. This is done through the Drop/Add process.

The Drop/Add process is offered for the first five days of school. After that point, course changes are only made if recommended by a teacher who feels that a student is improperly placed in a certain class or class level.

Dual Enrollment classes may be used to replace CCA classes if a plan is in place by the end of Drop/Add (the first five days of school. After the drop/add period of time, students may NOT use a Dual Enrollment class to replace or drop out of a CCA class. All Dual Enrollment classes intended to be on a CCA transcript must first be approved by Dr. Eckert. Please do not enroll or pay for a class before receiving approval. Not all Dual Enrollment classes will be approved for a CCA transcript.

A minimum of 28 credits are required to earn a CCA High School Diploma. Votech and Transfer students have some leeway and may qualify for a CCA High School Diploma if they have met PA state standards for graduation and have come close to meeting CCA's requirement of 28 credits.

Descriptions for each course can be found in our Course Selection Guide.

CCA's Course Selection Guide is located on CCA's website under Forms.

## How to Register for Classes – Course Selection Portal Instructions

The Course Selection Portal opens soon after the end of the 3<sup>rd</sup> Marking Period. Make sure to check CCA's School Calendar for the date that the Scheduling Portal opens and closes.

**You MUST go through the INTERNET portal at: [Powerschool.ccphilly.org](https://Powerschool.ccphilly.org)**

Students and parents CANNOT register for classes through the PowerSchool App.  
The App does not offer the scheduling feature.

Through the Internet, log into your Powerschool account through [Powerschool.ccphilly.org](https://Powerschool.ccphilly.org)

On the start page, click Class Registration from the navigation menu. The Class Registration page appears.

Note: A Road icon appears if a teacher has recommended the course. Click to view the recommending teacher. A Note icon appears if the course contains prerequisite notes. Click to view.

\*If a course recommendation appears, that is the only course a student may register for in that section. You must select this course even if you choose to request a change of course.

Click the Pencil icon to select courses from each area as instructed. The Course Request pop-up window appears.

Work within the Navigation Menu to select your class.

Click Okay. The Course Request pop-up window closes. A green checkmark appears in the area for which you selected courses.

Note: An exclamation mark appears if courses need to be selected for an area.

Repeat the above steps for each course request.

Click Submit. The [Scheduling Year] Course Requests page appears.

All requests to change a course should be emailed to the TEACHER that made the initial recommendation AND Dr. Eckert at: [ceckert@ccphilly.org](mailto:ceckert@ccphilly.org). Please use Request to Change a Course in the subject line.

## Dual Enrollment Information

Dual Enrollment is the process of being enrolled in two separate, academically related institutions. At CCA, students can dual enroll by taking courses online, at a community college or through part time attendance at a vocational school.

CCA Administrative Approval is REQUIRED. CCA decides what classes are allowed on a CCA transcript. ***\*Do NOT register or pay for a course without receiving administrative approval as not all courses will be approved for a CCA transcript.***

There is NO tuition discount for students that supplement their CCA education by taking courses via Dual Enrollment.

CCA students may only transfer in up to two DE classes per semester and must be enrolled in at least three CCA classes.

***{Students that enroll in Vocational School may receive a limited discount due to the specialized nature of the VoTech program.}***

Dual Enrollment is Optional. CCA does NOT make recommendations for Dual Enrollment courses or schools. Common schools that previous CCA students have utilized for Dual Enrollment are: local community colleges, Cairn University, Grand Canyon University, Liberty University, and Florida Virtual School.

How CCA applies credit for Dual Enrollment courses:

- Courses that run 7 to 10 weeks will earn (.5) a half of a credit.
- Courses that run 11 to 16+ weeks will earn (1.0) a full credit.
- No credit will be given for courses that are less than 7 weeks long.
- No credit will be given for Pass/Fail classes.

College classes will earn the Honors weighted GPA.

High School classes will earn the weight described by the course level (Honors, College Prep, or Essentials)

An Official Transcript from the Dual Enrollment school is REQUIRED for the class and grade to be posted to a CCA transcript.

Students must have a Dual Enrollment plan in place by the end of Drop/Add. After the first five days of school, students are no longer allowed to DROP and class and REPLACE it with a Dual Enrollment class.

Dual Enrollment Request Forms, signed by a parent, are REQUIRED before approval will be determined. **Forms are located on CCA's website and at the High School Office.**

## Glossary of Terms

Prerequisites are the required grades or courses needed for a student to sign up for a specific class.

College Prep level courses are designed to prepare a student for admission to most colleges and universities.

Honors level courses are higher-level courses designed to cover more material at a faster pace. Within a weighted grade point average (GPA), honors classes will earn the student a higher GPA weight than a College Prep level course. \*See GPA Scale

Essentials level courses are designed to move at the student's pace. Special accommodations are offered to support the student's ability to learn the essential information of the given course.

Advanced Placement (AP) level courses are courses designed and approved by College Board. CCA requires students in AP classes to pay for and take the College Board AP exam offered in May of each school year. Each college and university has its own policy for what AP exam score is required to earn college credit for a given class. Within a weighted grade point average, AP classes will earn the student a higher GPA weight per grade earned than that of an Honors level and College Prep level course. \*See GPA Scale

A CCA Advanced Placement course cost \$110 per exam.

A Dual Enrollment Advanced Placement Exam costs \$160 per exam.

Electives are courses that students get to choose outside of their core classes. Electives are required for graduation. All electives are full year electives.

Most Electives Should Not Be Repeated. Courses that are offered 3 times or more per week are valued at 1 credit. Courses that are offered on a 1-2 times per week are valued at .5 credit.

Chosen electives are not guaranteed. Core classes take priority in the scheduling process. Students may have to choose which elective they like best during a given, open period.

## Grade Point Average (GPA) Scale

Courses are weighted based on degree of difficulty, which reflects itself in class rank and honor roll according to the following criteria:

Percent	Letter Grade	Essentials	College Prep	Honors	AP
97-100	A+	3.50	4.00	4.50	5.00
93-96	A	3.46	3.95	4.45	4.94
90-92	A-	3.21	3.67	4.13	4.59
87-89	B+	2.92	3.33	3.75	4.16
83-86	B	2.63	3.00	3.38	3.75
80-82	B-	2.34	2.67	3.01	3.34
77-79	C+	2.04	2.33	2.62	2.91
73-76	C	1.75	2.00	2.25	2.50
70-72	C-	1.46	1.67	1.88	2.09
68-69	D+	1.17	1.33	1.50	1.66
65-67	D	0.88	1.00	1.13	1.25
0-64	F	0.00	0.00	0.00	0.00

## Graduation Requirements

Courses	Total Credits	Other Information
Bible	4 credits	
English	4 credits	
Social Studies	4 credits	
Mathematics	4 credits	
Science	4 credits	
Foreign Language	4 credits	Two consecutive years of the same language
Health & Physical Education	2 credits	Team sports do not count toward credit for PE
General Electives	5 credits	
<b>28 total credits required for graduation</b>		
*AP, Votech, & Transfer students may, with administrative approval, earn less than 28 credits. Student must still satisfy PA state graduation standards.		
**The following courses receive credit but are NOT calculated into a student's GPA: Bible, Mentor, Student Government, NHS, and Band & Choir classes that meet less than 3x a week.		

## JUNIOR HIGH COURSE DESCRIPTIONS

### Junior High Bible Department

#### **Bible**

#### **Grades 7 & 8**

Junior High School Bible is taught by Calvary Chapel's junior high youth pastors. Bible teachers/pastors instruct from the King James and English Standard versions of the Bible in a verse-by-verse fashion making sure to cover Biblical principles, historical context, and personal application. Bible class is scheduled 3 days a week with a chapel offered every other Friday. 7th Grade curriculum covers the book of Acts. 8th grade curriculum covers 1 Corinthians and the inspiration and structure of the Bible.

## Junior High English Department

### **English 7**

**Grade 7**

This course is designed to further the student's competence in grammar, writing skills, vocabulary, and literary comprehension. Students will study literary elements and themes in novels and short stories from varying genres. Also, during literature reading, some philosophies will be examined in the light of a Biblical worldview. Grammar study includes review and deeper study of the major parts of speech, sentence structure, types of sentences, and proper mechanics.

### **Junior High English 7 Essentials**

**Grade 7**

*Prerequisite: Administrative placement and/or teacher recommendation.*

This course is designed to focus on and develop practical writing skills, grammar, comprehension, and vocabulary at a slower and more individualized pace than the college prep English 7. Students will utilize the Institute for Excellence in Writing (IEW) for both writing and grammar. Students will examine examples of quality writing and then gradually build the skills to write independently. Using IEW's stylistic techniques, introduced in the IEW Fix It! Grammar program, students move from basic to a variety of sentence structures, improved vocabulary and more sophisticated writing. Different types of literature will be introduced in this course to develop an appreciation of all types of genres and to improve comprehension. Special services and accommodations to support the students' special needs are distinctive to this course.

### **English 7 Accelerated**

**Grade 7**

*Prerequisite: 93% or higher in prior year's English class, strong writing skills and recommendation from 6<sup>th</sup> grade teacher.*

In English Accelerated follows the same format and covers the same material as English 7, but at a more rapid rate with increased units of study. Additional topics will include, but not be limited to, more reading (both novel and short story), additional vocabulary, and increased writing assignments. Most grammar is review and mastery of grammar skills will be expected from the student. Expectations placed on students in this course include higher motivation and participation levels.

**English 8****Grade 8**

In English 8, students will continue to develop skills in literary comprehension, vocabulary, grammar, and writing. Students will study literary elements and themes in novels from varied genres. Also, during literature reading, some philosophies will be examined in the light of a Biblical worldview. Student study of the five-paragraph essay and research paper will increase writing skills. Grammar study is designed to review and build upon skills previously learned. The student will be expected to master grammar skills.

**Junior High English 8 Essentials****Grade 8**

*Prerequisite: Administrative placement and/or teacher recommendation.*

This course is designed to focus on and develop practical writing skills, grammar, comprehension, and vocabulary at a slower and more individualized pace than the college prep English 7. Students will utilize the Institute for Excellence in Writing (IEW) for both writing and grammar. Students will examine examples of quality writing and then gradually build the skills to write independently. Using IEW's stylistic techniques, introduced in the IEW Fix It! Grammar program, students move from basic to a variety of sentence structures, improved vocabulary, and more sophisticated writing. Different types of literature will be introduced in this course to develop an appreciation of all types of genres and to improve comprehension. Special services and accommodations to support the students' special needs.

**English 8 Accelerated****Grade 8**

*Prerequisite: 93% in English 7 or 90% in English 7 Accelerated. Teacher recommendation required.*

In English Accelerated 8 students cover the same material as English 8, but at a greater pace and depth. This course allows students to dig deeply into drama, short stories, and novels, looking at each piece of literature from a Christian perspective. Students will use examples from the text to explain the gravity of sin in the world and the powerful hand of God at work in the world. Students will articulate through their writing how the texts in class relate to their own personal lives and will be able to use what they have learned to bless those in the world around them. The heartfelt messages of the stories read in class will reignite students' imaginations and push them to step outside of their comfort zone to feel and think more. As an accelerated class, this group works at a faster pace, has more group discussion, and does more writing than a regular English class would do. Most grammar is a review from previous years, and focus is placed on mastering its use when writing.



## JUNIOR HIGH SCIENCE DEPARTMENT

### **Junior High Earth and Space**

**Grade 7**

Geology, Oceanography, Meteorology and Astronomy are the four areas (spheres) of study covered in this course. Teaching from the foundation of God's perfect plan in creation and redemption of mankind, we strive to show the deficiencies in the evolutionary models presented in the text and in the culture today. To accomplish this goal, the facts are supplemented by many interactive labs as we explore such topics as minerals, plate tectonics, weather, and the stars.

### **Junior High Physical Science**

**Grade 8**

Physical Science is the required eighth grade science curriculum designed to introduce the basic principles of chemistry and physics. We will investigate answers to questions about why things happen and how things work through careful study and experimentation. Students will learn about the composition and properties of matter. We will explore the periodic table, how it was arranged and how that arrangement can be applied today. We will discover forces that make things move or keep them from moving. We will also investigate forms of matter and energy and how they affect the world around us.

## Junior High Math Department

### **General Math 7**

**Grade 7**

*Prerequisite: Passing grade in prior year's math class.*

This course is designed to build upon concepts taught in the Big Ideas Math Series. In General Math 7, students will study rational numbers (their operations and their algebraic representations), geometric concepts, ratios/proportions, percents, and probability. Foundational concepts and computational skills are introduced early in the course to prepare students to apply those skills to real-world problems throughout the year. The course also prepares the students for Pre-Algebra by introducing topics such as algebraic expressions, equations, and inequalities. Students MUST possess a scientific calculator.

### **General Math 7 Essentials**

**Grade 7**

*Prerequisite: Administrative placement and/or teacher recommendation.*

This course is designed to cover material similar to the Mathematics 7 College Prep Course, but at a differing speed and depth. Moving at the student's pace along with special services and accommodations to support the student's special learning needs is distinctive of this course. The purpose of this course is to help develop the math skills necessary to succeed in today's world. Instruction is carefully sequenced, starting with understanding place value and numeration before moving into more complex skills. Students also learn basic concepts in Geometry and are introduced to Pre-Algebra concepts and will work with integers. Students MUST possess a scientific or graphing calculator.

### **Pre-Algebra**

**Grade 7**

*Prerequisite: 90%-94% in prior year's math class.*

This course is designed to build upon concepts taught in the Big Ideas Math Series. Students will refine fundamental Pre-Algebra skills such as operations of integers and rational numbers, equations, ratio/proportions, number theory, exponents, square roots, and basic geometry. This course also introduces more complex mathematical concepts such as coordinate geometry, linear equations, data analysis, and transformations. At the end of the year, Algebra 1 topics such as functions and systems of linear equations may also be explored. Students MUST possess a scientific calculator.

### **Pre-Algebra Accelerated**

**Grades 7 & 8**

*Prerequisite: 95% or higher in prior year's math class.*

This course is designed to serve as a bridge between elementary mathematics and Algebra. It works best for advanced 7th and 8th grade students taking Algebra 1 the following year. The curriculum is purposely written to be challenging and better prepare students for Algebra 1. The course will build a foundation of algebraic concepts through the use of technology, manipulatives, problem solving, and cooperative learning. Concepts include integers, rational numbers, equations, inequalities, algebraic expressions, linear equations, polynomials, factoring, number theory, ratio/proportions, geometry, statistics, and graphing. Problem solving, reasoning, estimation, and connections between math and everyday applications will be emphasized throughout Pre-Algebra. In comparison with the College Prep Pre-Algebra course, the pacing of this course is accelerated, and more challenging problems are investigated. Students MUST possess a scientific or graphing calculator.

**Pre-Algebra****Grade 8***Prerequisite: Successful completion of General Math 7*

This course is designed to build upon concepts taught in General Math 7. Students will refine fundamental Pre-Algebra skills such as operations of integers and rational numbers, equations, ratio/proportions, number theory, exponents, square roots, and basic geometry. This course also introduces more complex mathematical concepts such as coordinate geometry, linear equations, data analysis, and transformations. At the end of the year, Algebra 1 topics such as functions and systems of linear equations may also be explored. Students MUST possess a scientific calculator.

**Pre-Algebra Essentials****Grade 8***Prerequisite: Administrative placement and/or teacher recommendation.*

This course is designed to cover the same material as the Pre-Algebra College Prep course, but at a differing speed and depth. Moving at the student's pace along with special services and accommodations to support the students' special learning needs is distinctive of this course. Students MUST possess a scientific or graphing calculator.

**Algebra I****Grade 8***Prerequisite: Satisfactory completion of Pre-Algebra or Pre-Algebra Accelerated.*

This course will briefly review Pre-Algebra concepts including adding, subtracting, multiplying and dividing fractions, decimals and percents. Algebra will help prepare students to approach and solve problems following a logical succession of steps and skills taught will be the foundation for upper-level math and also demonstrate algebraic applications for practical uses. Topics will cover linear equations, functions, analytic geometry, manipulating exponents and polynomials, simplifying rational expressions, evaluating inequalities and absolute value, and simplifying radicals. Problems explored are intended to be thought-provoking and also skill-sharpening. Students must possess a scientific or graphing calculator.

**Algebra I Honors****Grade 8***Prerequisite: 95% in Pre-Algebra or 93% in Pre-Algebra Accelerated. Teacher recommendation required.*

This course is intended for students with an above-average aptitude in mathematics. In comparison with the Algebra I course, the pacing of the course is accelerated and more challenging and real world applications problems are presented and investigated. In addition to the topics covered in the Algebra I course, this course will discuss solving linear systems, simplifying radical expressions, solving quadratic equations and cover a number of important and interesting problems in a wide range of disciplines with an emphasis on classic word problems. Students must possess a scientific or graphing calculator.

## Junior High Social Studies Department

### **JH World History/Geography Survey**

**Grade 7**

The course is an overview of World History and Geography as it relates to culture, government, economics, and citizenship. The course encourages active inquiry while introducing civics, geography, and history concepts. Students develop critical thinking, problem solving, and communicating skills for engaged civic life. Through instruction, discussion, and exploration of primary sources, students will be able to understand where our study of world history and geography fits into a Biblical worldview.

### **JH American History Survey**

**Grade 8**

This course is an exploration of the history of our nation from the Founding of America through modern American history. Students develop their analytical and research skills through writing practice and assessment. Media technologies are used to engage students and enhance comprehension of overall themes and events. Students are challenged to use critical thinking skills by critiquing opposing viewpoints regarding social developments within the United States.

## Junior High Foreign Language Department

### **Junior High Latin**

**Grade 7**

This Latin course is a basic entry-level course. The students will learn Bible verses and vocabulary which will include: colors, numbers, days and months in Latin. The adventures of a Roman family will be followed as the students translate simple Latin stories. The basics of English grammar will be stressed through the reading and translating of the Latin stories.

### **Junior High French (S1) / Junior High Spanish (S2)**

**Grade 8**

This is an introductory, very basic and beginner foundational course to introduce students to the French language, the varied cultures of those who speak French, and the need of the Gospel to Francophiles world-wide. Completion of this course will help students make an informed choice of a foreign language for high school.

This Spanish course is designed to introduce students to the Spanish language and the Spanish speaking world, while helping them make an informed choice of a foreign language for high school. The students will learn basic vocabulary, conversation, grammar, and culture. The students will learn French for one semester and Spanish for the other semester.

### **Essentials Directed Study Hall (Full-Year Elective 0 credit)**

**Grades 7 & 8**

This class is assigned to students who, because of a diagnosed learning difference, decide to forego taking a foreign language. Students may only choose to take this course if they have a diagnosed learning difference in any area of the language arts. During this period, a teacher will work with each student individually to help them complete assigned homework and projects or study for quizzes and tests as well as encourage and model study skills.

## Junior High Physical Education Department

*The Physical Education Department is based on the realization and belief that our bodies are the temple of the Holy Spirit, whom we have received from God. We are not our own, we have been bought with a price; therefore, we should honor God with our body. (I Cor. 6:19-20)*

### **PE/Athletics/Health 7-8 Girls (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

This Junior High PE curriculum is designed from a biblical perspective that acknowledges how we have been created by God and have the individual responsibility to take care of our physical body as well as a responsibility to perform our role as a teammate to the best of our ability. We will learn and apply these tools through a variety of team sports and team games. Team games will be utilized to build teamwork and create a love for getting our bodies moving and minds strategizing. In team sports we will be breaking down and practicing the skills necessary to build individual confidence and overall team success.

The junior high health course is taught alongside our junior high PE/Athletics curriculum. We will discuss and interact with important information from a biblical perspective regarding the physical, social, and mental/emotional health of our students.

### **PE/Athletics/Health 7-8 Boys (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

This Junior High PE curriculum is designed from a biblical perspective that acknowledges how we have been created by God and have the individual responsibility to take care of our physical body as well as a responsibility to perform our role as a teammate to the best of our ability. We will learn and apply these tools through a variety of team sports and team games. Team games will be utilized to build teamwork and create a love for getting our bodies moving and minds strategizing. In team sports we will be breaking down and practicing the skills necessary to build individual confidence and overall team success.

Our junior high health course is taught alongside our junior high PE/Athletics curriculum. We will discuss and interact with important information from a biblical perspective regarding the physical, social, and mental/emotional health of our students.

## Junior High Electives

### **Junior High Art (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

Junior High art is a hands-on introduction to art making. We will create in a variety of styles and media, such as drawing, painting, printmaking, clay, cardboard sculpture, textile art, and more. Every other year is a different set of projects, so you may take art in 7th and 8th grade and not repeat projects.

### **Junior High Band (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

*Prerequisite: A basic ability to play a band instrument (woodwind, brass, percussion), read music and teacher approval.*

In this class, the student rehearses and performs popular jazz repertoire. Emphasis is on sight-reading, listening skills, improvising, ensemble playing and music theory. The student will perform at school concerts and outside festivals (Dorney Park and ACSI).

### **Junior High Jazz Band (Full-Year Elective 0.5 credit Does NOT affect GPA)**

**Grades 7 & 8**

*Prerequisite: An advanced ability to play a band instrument (woodwind, brass, or rhythm section – piano, bass, drums, guitar), read music and audition with teacher approval.*

In this class, the student rehearses and performs popular jazz repertoire. Emphasis is on sight-reading, listening skills, improvising, ensemble playing and music theory. The student will perform at school concerts and outside festivals (Dorney Park and ACSI).

### **Junior High Choir (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

This is a fun and challenging class for Junior High Choir students who enjoy singing. The choir will sing a variety of music from gospel to classical with an emphasis on vocal blend, pitch, breathing and dynamics. The Junior High Choir will be jointly singing with the Senior High Choir for CCA concerts. It's a big step up musically, and a great opportunity to worship through song.

### **Computer Science Discovery (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

Get ready to embark on a tech-tastic journey with CS Discoveries, the ultimate VIP pass to the world of computer science tailored for 7th-8th graders. In this STEM-infused course, you'll unleash your creativity and have a blast while becoming the mastermind behind websites, apps, games, and even cool physical computing gizmos. CS Discoveries goes beyond traditional coding classes; it's a comprehensive experience that equips you with the skills to code, design, problem-solve, and transform ideas into awesome digital realities. You will have the opportunity to explore the intersection of technology, data, and societal impact. Throughout the course, you'll not only unleash your creativity but also delve into the realms of artificial intelligence and machine learning. This course isn't just about learning; it's your ticket to becoming a tech ace. It's time to dive in, have some fun, and let your inner computer genius shine!

### **Junior High Culinary Arts (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

This course skillfully converts Junior High energy and charisma into tasty treats. During the school year, the students will obtain a finer appreciation for life in the kitchen. This includes food preparation, working well with others in a group and learning to clean up responsibly. Yes, you will even be able to trust them with a sharp knife. (Whew!) Upon completion of this course, your child will be transformed into a junior chef and can serve as a helpful hand in any family's kitchen. "You shall eat in plenty and be satisfied, and praise the name of the Lord your God, who has dealt wondrously with you."

\*The curriculum of Culinary Arts contains recipes that may include ingredients such as peanuts, milk, eggs and wheat. If your child has an allergy to any of the aforementioned ingredients or has a food allergy less common than the ones previously mentioned, please make sure he or she does not register for this class. CCA will not be responsible for the administration or oversight of food allergies as it relates to food consumed in this course.

\*Jr. High Culinary Arts is a 4th period class. Due to some recipes for class that require food prep and clean-up that may take slightly longer to finish, class may extend into the student's fifth period lunch. Students will be required to stay and finish the task that was started in class. If this is the case, students are allowed to bring their lunch back to class and eat while their group finishes the task. Please consider this as you select this course for your child.

**Junior High Drama (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

Have you got a flair for the theatrical? Has anyone ever called you a "Drama Queen"? Find out for sure if you have a God-given gift for telling stories on stage. In this class, you will study basic acting principles and techniques, such as pantomime, improvisation, vocal projection (you get to scream in class!) and movement. Theater games and projects will prepare you for presentations throughout the year, as well as our final production in May.

**Junior High STEM (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

Do you like to build things? Do you like to figure out how things work? Do you learn by doing? If so, STEM class is for you! STEM stands for science, technology, engineering and math. Students will learn how to integrate all these content areas to be prepared for the 21st century. This course is project-based and assignments are designed to develop critical thinking skills, improve communication, and apply problem-solving techniques to real-world problems. Students will practice the engineering design process which focuses on learning how to brainstorm, gather information, develop ideas, create models, test, evaluate, redesign, and share solutions. Some of the topics students will explore include design and modeling, simple machines, energy and the environment, flight and space, and robotics/circuitry among others.

**Junior High Storytelling (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

Spend time playing with words and literary devices, brainstorming and completing entertaining activities using imagery, creating posters and visual arts to celebrate communication, writing, and creativity in a written or displayed piece. We will write engaging pieces that combine our own thoughts, dreams, and experiences with various writing styles like blackout poetry, 6-word memoirs, letters, journals/diaries, free writing and much more. All work will seek to honor God so that Psalm 19:14 can be said of us.

**Junior High Yearbook (Full-Year Elective 1.0 credit)**

**Grades 7 & 8**

*Prerequisite: Basic writing, photography, and computer skills.*

This course is designed to guide students in the creation of the school yearbook. Students learn basic principles of yearbook production and develop skills that include writing captions and headlines; digital photography; desktop publishing and using appropriate technology tools for media production. Students brainstorm and work together to develop a theme, gather verses and quotes, and produce pages to create a quality yearbook that reflects the pictorial history of the activities for the present school year. Students in the yearbook class are the leaders and decision-makers of the yearbook staff of Calvary Christian Academy.



## SENIOR HIGH COURSE DESCRIPTIONS

### Senior High Bible Department



#### **Bible (Full-Year 1.0 credit Does NOT affect GPA)**

**Grades 9-12**

High School Bible is taught by Calvary Chapel pastors in a cyclical manner. Each Bible teacher/pastor is teaching the same book of the Bible at each grade level (grades 9-12). The High School curriculum will cover the books of Genesis, Mark (the Life of Christ), Revelation, and The Pauline Epistles. In this 4-year cycle, students in grades 9-12 will be exposed to each of the aforementioned books of the Bible before they graduate. Bible teachers instruct from the King James Version of the Bible in a verse-by-verse fashion making sure to cover Biblical principles, historical context and personal application. Bible class is scheduled 3 days a week and concludes with a worship chapel every Friday.

## Senior High English Department

### **Literature & Composition**

**Grade 9**

Literature and composition class has students read poetry, drama, short stories, and novels, looking at each piece of literature from a Christian perspective. Students use examples from literature to explain the gravity of sin in the world and the powerful hand of God at work in the world. The texts will take readers from the bleak concentration camps of southern Poland, all the way to the colorful neighborhoods of urban America. Students will study love and death from the mind of Shakespeare, and we will read about an inspiring teacher who taught words and symbols to a seemingly hopeless pupil. Students will learn to write well-developed essays as a foundational skill necessary for future academic writing. Attention will be given to reading comprehension, critical reading, and development of grammar and vocabulary skills.

### **Literature & Composition Honors**

**Grade 9**

*Prerequisite: 93% in English 8 or 90% in English 8 Accelerated. Teacher recommendation required.*

Literature and composition honors class has students read poetry, drama, short stories, and novels, looking at each piece of literature from a Christian perspective. Students use examples from literature to explain the gravity of sin in the world and the powerful hand of God at work in the world. The texts will take readers from the bleak concentration camps of southern Poland, all the way to the colorful neighborhoods of urban America. Students will study love and death from the mind of Shakespeare, and we will read about an inspiring teacher who taught words and symbols to a seemingly hopeless pupil. Students will learn to write well-developed essays as a foundational skill necessary for future academic writing. Attention will be given to reading comprehension, critical reading, and development of grammar and vocabulary skills.

This honors class will move at a much faster pace, cover topics in greater depth, and require more independent reading by the students. There will be more of an emphasis on critical thinking and analyzing a text for answers that are not explicitly stated by the author. Students will dissect the literary tools that each author uses to best serve his or her purpose. Along with each novel, students will be reading nonfiction pairings that help them make further connections between the texts and the historical background of each piece. Throughout the year students will complete projects that rely on collaboration, research, and creativity, thus making the learning experience more authentic to the real world.

### **Literature & Composition Essentials**

**Grades 9 & 10**

*Prerequisite: Administrative placement and/or teacher recommendation.*

Literature and composition essentials involves the students reading poetry, drama, short stories, and novels, looking at each piece of literature from a Christian perspective. Students use examples from literature to explain the gravity of sin in the world and the powerful hand of God at work in the world. Other objectives include developing comprehension, vocabulary, and writing skills at a slower and more individualized pace than the college prep English. Students will utilize the Institute for Excellence in Writing (IEW) for both writing and grammar. Students will examine examples of quality writing and then gradually build the skills to write independently. Using IEW's stylistic techniques, introduced in the IEW Fix It! Grammar program, students move from basic to a variety of sentence structures, improved vocabulary, and more sophisticated writing. Special services and accommodations are used to support the students' special learning needs.

**World Literature****Grade 10**

This course seeks to draw the student in towards literature so that an effective thinker and writer might be drawn out. The reading of novels, short stories, plays, and nonfiction articles from different areas of the world will dominate this course. All literature is interpreted from a Christian perspective and will be used as a springboard for both writing creatively and critically. Attention will be given to close reading, critical thinking, cooperative group work, and real-world learning. Creative assessments will ensure that each student can communicate knowledge to the best of his or her ability. Students will make connections between literature and their own lives, exploring literature in a global context.

**World Literature Honors****Grade 10**

*Prerequisite: 93% in Lit & Comp or 90% in Lit & Comp Honors. Teacher recommendation required.*

This course will cover novels, short stories, plays, and nonfiction articles from different areas of the world in great depth, including related film analysis and real-world applications. All literature is interpreted from a Christian perspective and the course is designed for those who are motivated to write and analyze in greater detail – strengthening their essay and research skills. Requirements include participation in critical discussions, independent reading, peer-reviewed essay writing, and group projects. Students will make connections between literature and their own lives, exploring literature in a global context.

**World Literature Essentials****Grades 9 & 10**

*Prerequisite: Administrative placement and/or teacher recommendation.*

This course is designed to focus on World Literature. An anthology of world literature will be used to achieve an appreciation for foreign authors, cultures, and different genres of literature. Other objectives include developing comprehension, vocabulary, and writing skills at a slower and more individualized pace than the college prep English. Students will utilize the Institute for Excellence in Writing (IEW) for both writing and grammar. Students will examine examples of quality writing and then gradually build the skills to write independently. Using IEW's stylistic techniques, introduced in the IEW Fix It! Grammar program, students move from basic to a variety of sentence structures, improved vocabulary, and more sophisticated writing. Special services and accommodations are used to support the students' special learning needs.

**American Literature****Grade 11**

This course requires students to examine American literature, looking to discover what the works say about God, man, and nature. Juxtaposing the works' messages with the Word of God, students will discern truth and/or error in the literature. Elements of fiction will be discussed and used as a catalyst for literary analysis. Students will construct written essays and oral responses, practice different modes of writing, apply fundamental grammatical principles, and expand their vocabularies. Summer reading is required in preparation for this course.

*\*Course required by CCA to be taken at CCA. Students may not take an online course or college course to replace this class.*

**American Literature Honors****Grade 11**

*Prerequisite: 93% in World Literature or 90% in World Literature Honors. Teacher recommendation required.*

This course immerses students in the richness of American Literature through the study of complex works produced during the Early American, Revolutionary, Romantic, Realist, and Modern Periods. Analyzing, synthesizing, and evaluating the literature, students will not only grapple with the work itself but also discern its grasp on truth, as defined by the Word of God. Elements of fiction will be discussed and used as a catalyst for essay writing while rhetorical analysis will challenge students to consider the composition of effective writing. Students will also review fundamental grammatical principles, expand their vocabularies, and practice timed writing. Summer reading is required in preparation for this course.

**American Literature Essentials****Grades 11 & 12**

*Prerequisite: Administrative placement and/or teacher recommendation.*

This course is designed to focus on American Literature, which includes such authors as Mark Twain, Edgar Allan Poe, Ralph Waldo Emerson, and Walt Whitman. An anthology of American Literature will be used to achieve an appreciation for American authors, culture, and different genres of literature. Vocabulary is taken directly from the literature that is read to help in the comprehension of the text. Students will utilize the Institute for Excellence in Writing (IEW) for both writing and grammar. Students will examine examples of quality writing and then gradually build the skills to write independently. Using IEW's stylistic techniques, introduced in the IEW Fix It! Grammar program, students move from basic to a variety of sentence structures, improved vocabulary and more sophisticated writing. Special services and accommodations are used to support the students' special learning needs.

**British Literature****Grade 12**

This course is designed to give the students an appreciation for the achievements of British literature. The students will read novels and plays from a variety of literary genres. Historical backgrounds will be studied to give the students a better understanding of each literary period. The literature will be discussed and analyzed with a Biblical worldview and in light of Biblical truth. Through their discussions and comparisons to Biblical truth, the student will gain a greater reverence for God. The students will continue to develop their grammar and vocabulary skills through writing and class discussions. A research paper will also be assigned. Summer reading, along with a written assignment, is also required in preparation for this course.

*\*Course required by CCA to be taken at CCA. Students may not take an online course or college course to replace this class.*

**British Literature Honors****Grade 12**

*Prerequisite: 93% in American Literature or 90% in American Literature Honors. Teacher recommendation required.*

This course will prepare students for reading and writing success at the college-level. Classes are designed to foster mature writing skills, in-depth literary analysis, close-reading techniques, creative interpretations, and an appreciation for the complexity and achievement of British literature and culture. Vocabulary for the College Bound will be included in the weekly lessons. All literature will be studied from a Christian worldview. Student success will rely on extensive independent reading, research skills, and leadership in critical discussions. Students enrolled in this course should be prepared to write a 5-7 page research paper. Summer reading, along with a written assignment, is also required in preparation for this course.

**British Literature Essentials****Grades 11 & 12**

*Prerequisite: Administrative placement and/or teacher recommendation.*

This course is designed to give the students an appreciation for the achievements of British literature. The students will read novels and plays from a variety of literary genres. Historical backgrounds will be studied to give the students a better understanding of each literary period. The literature will be discussed and analyzed with a Biblical worldview and in light of Biblical truth. Students will utilize the Institute for Excellence in Writing (IEW) for both writing and grammar. Students will examine examples of quality writing and then gradually build the skills to write independently. Using IEW's stylistic techniques, introduced in the IEW Fix It! Grammar program, students move from basic to a variety of sentence structures, improved vocabulary, and more sophisticated writing. Special services and accommodations are used to support the students' special learning needs.

**AP Literature & Composition****Grade 12**

*Prerequisites: 95% in American Literature or 90% in American Literature Honors; strong attendance record; teacher recommendation.*

This course is designed to comply with the curricular requirements described in the AP English Course Description. AP English literature & Composition involves in-depth analysis of literature and an extensive study and practice of writing. Students will examine individual work's language, characters, plot and themes. They also will consider each work's structure, meaning, value, and relationship to contemporary and historical experience; scrutinize representative works from several genres; and concentrate on reading and writing about challenging works of recognized literary merit (AP English Literature & Composition Curriculum Guide). Students will engage in an abundance of written assignments and projects with special focus on the timed in-class essay in preparation for the AP exam. Summer reading is required in preparation for this course.

*NOTE: This course also requires students to take the AP Literature & Composition Exam given in May, at the cost of \$110 to the student. The \$110 exam fee must be paid before the end of September. If the fee is not paid the student will be placed in an honors Literature & Composition course of their choosing.*

## Senior High Science Department

A minimum of four science credits is required for graduation from Calvary Christian Academy. Students interested in science related careers are encouraged to follow the accelerated honors track and may even take two sciences in their senior year.

	Grade 9	Grade 10	Grade 11	Grade 12
Honors	Biology Honors	Chemistry Honors	Anatomy/Physiology Honors Physics Honors AP Chemistry AP Physics 1	Anatomy/Physiology Honors Physics Honors AP Chemistry AP Biology AP Physics 1
College Prep	Biology	Chemistry	Anatomy Physiology Astronomy Chemistry Physics Exercise Science	Anatomy Physiology Astronomy Physics Exercise Science Computer Science Principles and Programing

### **Biology**

### **Grade 9**

Biology is a 9th grade class, aligned to a college-prep curriculum. Most students taking biology intend to enter college after graduation. This course provides a general overview of major biological topics such as the biomolecular makeup of cells, the structure, function, growth and reproduction of microorganisms, plants and animals. The students will become familiar with topics such as microscopy, cell structure and division, Mendelian genetics, DNA, RNA and protein synthesis, the diversity of living systems, as well as evidence for creation versus evolution. The class includes several labs and dissections. The goal is for the student to develop an appreciation for the living world around them and a worshipful attitude toward the God who spoke it into existence.

### **Biology Honors**

### **Grade 9**

*Prerequisite: 93% in Physical Science or previous science class. Teacher recommendation required.*

This biology course is a rigorous study of God's living creation requiring a high degree of motivation and the ability to work independently. It stresses those areas of biology common to all living things such as cell biology, genetics, heredity, and biochemistry. The underlying principle is that all life was created with unity and diversity. Coursework includes hands-on laboratory investigations and possible dissection of preserved animal specimens.

**Chemistry****Grades 10 & 11***Prerequisite: Successful completion of Biology*

"By faith we understand that the worlds were framed by the Word of God, so that the things which are seen were not made of things which are visible" (Heb. 11:3). This course is designed to prepare the student principles and disciplines to be successful at the college level. By exploration and study of "the things which are seen", elements, compounds, and materials; the student will gain an understanding of the composition of matter and its interactions; "the things which are not seen". Topics studied will include an introduction to chemistry, matter and change, scientific measurement, atomic structure, electron configuration and the quantum names and formulas, chemical quantities, chemical reactions, stoichiometry, gas laws, and states of matter. The course will require strong mathematical skills, reading ability, and writing skills, and will include interesting hands-on laboratories and demonstrations to reinforce chemistry concepts while promoting the fact that chemistry is part of everyday life.

**Chemistry Honors****Grade 10***Prerequisite: 90% Biology Honors or 90% Biology College Prep and 85% in Algebra I. Teacher recommendation required.*

"By faith we understand that the worlds were framed by the Word of God, so that the things which are seen were not made of things which are visible" (Heb. 11:3). This course will prepare the student who is interested in a career in chemistry, biology, medicine, engineering and related disciplines to be successful at the college level. By exploration and study of "the things which are seen", elements, compounds, and materials; the student will gain an understanding of the composition of matter and its interactions; "the things which are not seen." Topics studied will include an introduction to chemistry, matter and change, scientific measurement, atomic structure, electron configuration and the quantum mechanical model, the periodic table, ionic and metallic bonding, covalent bonding, chemical names and formulas, chemical quantities, chemical reactions, stoichiometry, gas laws, states of matter, water and aqueous systems, solutions, thermo-chemistry, reaction rates and equilibrium; acids, bases, and salts; oxidation-reduction reactions, and electrochemistry. The course will require strong mathematical skills, reading ability, and writing skills, and will include interesting laboratories and demonstrations to reinforce most concepts.



**Anatomy Physiology****Grades 11 & 12***Prerequisites: Successful completion of Chemistry.*

is course is designed to provide students with an in-depth look into the interrelationship between the structure and function of the human body and how disease affects it. Students will study eleven systems in the body. The course will take a hand-on approach and involve a variety of labs, including muscle-nerve interactions, lung capacity, kidney function, digestion, blood typing and pressure, etc. It will also include several organ dissections and a multi-system observation of preserved animal specimens. The ultimate goal of this course will be to instill a worshipful attitude within the students as they appreciate how we are 'fearfully and wonderfully made' This course will significantly benefit students seeking a career in the healthcare field.

**Anatomy Physiology Honors****Grades 11 & 12***Prerequisites: 93% in Chemistry. Teacher recommendation required.*

Students will have a head start on one of the most crucial and prominent college-level courses required for a career in the health-related field. Human Anatomy and Physiology explores the structure and function of all eleven systems on the body, with additional attention to common pathology associated with each system. While honors students are expected to memorize a great deal of anatomical and medical terminology, the emphasis of the course will be on cultivating a more practical and analytical approach to genuinely understand how complex physiological processes in various systems work in concert to maintain homeostasis. The college-level text should facilitate a smooth transition for postsecondary education students. Lab activities such as microscopic examination of tissues, muscle-nerve interactions, organ dissections, lung volume, blood pressure measurement, blood typing, kidney function labs etc., will provide students with hands-on experience. The course will culminate with a preserved cat dissection, enabling students to observe systems analogous to the human body. For spiritual emphasis, the course will draw parallels between the human body and the Body of Christ, the Church, to inculcate a well-rounded perspective on the subject.

**Astronomy****Grades 11 & 12***Prerequisites: Successful completion of Algebra and previous science courses.*

This class will provide an overview of fundamental concepts in God's universe through a one-year Astronomy science course. It will cover its historical development to our most recent understanding of the solar system, galaxies and universe. Topics to be studied will include light, orbits and gravity, planets and moons, stars including our sun, stellar life cycles and black holes. Special topics will include celestial navigation, space exploration and relativity.

**Exercise Science****Grades 11 & 12***Prerequisite: Successful completion of Algebra and previous science courses. Helpful Prerequisite: Anatomy and Physiology*

Exercise Science is the study of the effects on the body's systems during an acute bout of exercise as well as the adaptations that occur as a result of a training program. This class is ideal for students interested in careers in kinesiology, sports medicine, physical fitness, strength and conditioning, physical education, athletic training, sports management, physical therapy and occupational therapy. Topics to be covered include the importance and function of all body systems as a result of physical training. Additional topics include training the general population vs performance athletes, biomechanics and motor control, nutrition and hydration for performance, training for sport, sport psychology, fitness assessments, careers, licensure and

certification, and other issues in sport and fitness. This class will be led through a biblical lens of movement of the body to glorify God, whether through sport, general health, or management of injuries and/or health conditions.

### **Physics**

**Grades 11 & 12**

*Prerequisite: 85% in previous science class; 85% in all previous math classes and concurrent enrollment in Algebra II or Pre-Calculus. Teacher recommendation required.*

“The heavens declare the glory of God; and the firmament shows His handiwork.” (Psalm 19:1)

Physics is the most basic of all sciences because it is about the study of the laws and principles governing the Creation such as motion, forces, energy, matter, heat, sound, electricity, magnetism, and light. The Physics student will study these topics through a conceptual approach. The student’s curiosity will be stirred with meaningful, real-life examples and hands-on exercises as each topic is explored. Each concept will be further developed through relevant demonstrations, problem-solving practice, and thought-provoking questions. The new ideas learned will be applied through laboratory work and discussion of critical-thinking questions. The study of physics will reinforce in the student’s mind the truth of the Psalmist’s proclamation and the awesomeness of the Creator, Who spoke into the darkness, saying “Let there be light” (Genesis 1:3); the single, most astounding statement ever spoken.

### **Physics Honors**

**Grades 11 & 12**

*Prerequisite: 90% in Honors Chemistry or 93% in Chemistry. Additionally, an 85% in Algebra II Honors and concurrent enrollment in Pre-Calculus or above. Teacher recommendation required.*

“The heavens declare the glory of God; and the firmament shows His handiwork.” (Psalm 19:1)

Physics is the most basic of all sciences because it is about the study of the laws and principles governing the Creation such as motion, forces, energy, matter, heat, sound, electricity, magnetism, and light. The Physics Honors student will study these topics through reading, writing, and problem solving; using an analytical/mathematical approach supported by hands-on activities and demonstrations, designed to develop the critical thinking skills necessary for careers in science and engineering. This class is designed as a STEM class where students are designing laboratory experiments, engineering devices and where math and technology is utilized to analyze motion. The study of physics will reinforce in the student’s minds the truth of the Psalmist’s proclamation and the awesomeness of the Creator, Who spoke into the darkness, saying “Let there be light” (Genesis 1:3); the single, most astounding statement ever spoken.

**AP Physics 1****Grade 12**

*Prerequisite: 90% in AP Chemistry or 93% in Physics Honors AND 93% in Pre-Calc AND concurrent enrollment in Honors Calculus or above. Strong Attendance Record and Teacher Recommendation required.*

“The heavens declare the glory of God; and the firmament shows His handiwork.” (Psalm 19:1) For since the creation of the world God’s invisible qualities—his eternal power and divine nature—have been clearly seen. (Romans 1: 20) Physics explores the patterns of Creation that God set in motion in the beginning and continually holds in motion today, giving us knowledge of God and our relationship with Him. AP Physics 1 is equivalent to a first-semester college course in algebra-based physics. The purpose of this course is to prepare students interested in studying engineering or medicine, and related disciplines such as mathematics or science in college. This class is designed as a STEM class where students are designing laboratory experiments, engineering devices and where math and technology is utilized to analyze motion. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It also introduces electric circuits. No prior course work in physics is necessary for students to enroll in AP Physics 1. Students should have completed geometry and Algebra II and concurrent enrollment in pre-Calculus or above. It is recommended that the student should have strong mathematical skills, analytical skills, and writing skills. Sixteen guided inquiry labs required by the AP curriculum will be performed. This course is specifically designed to prepare the student for the AP Physics 1 Exam in early May; therefore, it is fast-paced and requires a lot of self-study on the part of the student.

*NOTE: This course also requires students to take the AP Physics Exam given in May, at the cost of \$110 to the student. The \$110 exam fee must be paid before the end of September. If the fee is not paid the student will be placed in an honors science course of their choosing.*

**AP Biology****Grade 11 & 12**

*Prerequisite: 90% in AP Chemistry, or 93% in current Honors Science Course and 90% in Algebra II Honors or 93% in Algebra II. Priority will be given to 12th grade students as the class will be kept to a minimum of 20 students. Strong attendance record and Teacher recommendation required.*

This course is designed to be the equivalent of a two-semester college introductory biology course. The range and depth of topics covered the lab investigations, and the pace of the course are significantly more challenging than regular honors Biology courses. As a result, a significantly greater amount of time and effort in and out of the classroom is required of students in AP Biology. The culmination of the course will be the College Board AP Biology exam. Major themes include biochemistry, cell biology, energy transfer, heredity, evolution, structure to function of plants and animals, regulation, ecology, and science, technology, and society.

*NOTE: This course also requires students to take the AP Biology Exam given in May, at the cost of \$110 to the student. The \$110 exam fee must be paid before the end of September. If the fee is not paid the student will be placed in an honors science course of their choosing.*

**AP Chemistry****Grades 11 & 12**

*Prerequisite: 93% in Chemistry I Honors and 90% in Algebra II Honors or 93% in Algebra II. Teacher recommendation required.*

By faith we understand that the worlds were framed by the Word of God, so that the things which are seen were not made of things which are visible" (Heb. 11:3). This course will pick up where Chemistry I left off, with the purpose of preparing the student who is interested in a career in chemistry, biology, medicine, engineering, and related disciplines to be successful at the college level. By continuing the exploration and study of "the things which are seen", elements, compounds, and materials; the student will gain an understanding of the composition of matter and its interactions; "the things which are not visible". Topics studied will include review and more in-depth study of topics studied in Chemistry I, including: matter and measurement; atoms, molecules, and ions; chemical reactions and stoichiometry; reactions in aqueous solution; electronic structure of atoms; periodic properties of elements; basic concepts of chemical bonding; and molecular geometry and bonding theories. In addition, the study of the states of matter (gases, liquids and intermolecular forces, solids and modern materials and properties of solutions), chemical kinetics, chemical equilibrium (including acid-base equilibrium, buffers, and solubility equilibrium), chemical thermodynamics, and electrochemistry. As with Chemistry I, this course will require strong mathematical skills, reading ability, and writing skills. Sixteen guided inquiry labs required by the AP curriculum will be performed. This course is specifically designed to prepare the student for the AP Chemistry Exam in early May; therefore, it is fast-paced and requires a lot of self-study on the part of the student. As time permits after the exam date additional topics including: a survey of organic chemistry (the chemistry of carbon-based molecules, the basis for all living things), nuclear chemistry, environmental chemistry, chemistry of the non-metals, and transition metals and coordination chemistry may be studied.

*NOTE: This course also requires students to take the AP Chemistry Exam given in May, at the cost of \$110 to the student. The \$110 exam fee must be paid before the end of September. If the fee is not paid the student will be placed in an honors science course of their choosing.*

## Senior High Math Department

### Math Progression Chart

	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Honors	Pre-Algebra Accl	Algebra I Honors Pre-Algebra Accl	Geometry Honors Algebra I Honors	Algebra II Honors Geometry Honors	Pre-Calculus Hon Algebra II Honors	Pre-Calculus Honors Calculus Honors Calculus AP
College Prep	General Math 7 Pre-Algebra	Pre-Algebra Algebra I	Algebra I Geometry	Geometry Algebra II	Algebra II Pre-Calculus	Pre-Calculus Calculus Math in Our World
Essentials	General Math 7 Ess.	Pre-Algebra Ess.	Algebra IA Ess.	Algebra IB Ess.	Algebra IIA Ess.	Algebra IIB Ess.

#### **Algebra I**

**Grades 8 & 9**

*Prerequisite: Satisfactory completion of Pre-Algebra or Pre-Algebra Accelerated.*

This course will briefly review Pre-Algebra concepts including adding, subtracting, multiplying and dividing fractions, decimals and percents. Algebra will help prepare students to approach and solve problems following a logical succession of steps and skills taught will be the foundation for upper-level math and also demonstrate algebraic applications for practical uses. Topics will cover linear equations, functions, analytic geometry, manipulating exponents and polynomials, simplifying rational expressions, evaluating inequalities and absolute value, and simplifying radicals. Problems explored are intended to be thought-provoking and also skill-sharpening. Students must possess a scientific or graphing calculator.

#### **Algebra I Honors**

**Grades 8 & 9**

*Prerequisite: 95% in Pre-Algebra or 93% in Pre-Algebra Accelerated. Teacher recommendation required.*

This course is intended for students with an above-average aptitude in mathematics. In comparison with the Algebra I course; the pacing of the course is accelerated and more challenging and real world applications problems are presented and investigated. In addition to the topics covered in the Algebra I course, this course will discuss solving linear systems, simplifying radical expressions, solving quadratic equations and cover a number of important and interesting problems in a wide range of disciplines with an emphasis on classic word problems. Students must possess a scientific or graphing calculator.

#### **Algebra IA Essentials**

**Grade 9**

*Prerequisite: Administrative placement and/or teacher recommendation.*

Algebra is practical math that is applied to solving basic everyday problems. This particular course is designed for students who struggle to achieve success in a traditional college preparatory environment. In order to make this course applicable to these unique students, the fundamental concepts of Algebra are clearly explained and practically applied. Equation solving, polynomials, factoring, and problem solving are all presented at the students' pace with individual attention, care, and respect given to different learning styles. Practical life application of these skills is achieved through hands on learning, visual aids, and repetition. Through individual attention and encouragement, students will be able to make Algebra a personal and practical experience rather than an abstract concept. The course also provides a biblical rationale for the study of mathematics. Students MUST possess a scientific or graphing calculator.

**Geometry****Grades 9 & 10**

*Prerequisite: Successful completion of Algebra I.*

May be taken simultaneously with Algebra II.

Of course, this class is filled with discussion of point, line, plane, area and volume, but the student will be amazed that triangles and circles contain so much information! The student will learn inductive and deductive reasoning during the course of the year. Normally a favorite of the student, the exploration of parallel lines and their resulting angles will develop visual skills and reinforce algebraic skills. A pronounced understanding of the Pythagorean Theorem will be developed during portions of this course. Construction using a protractor and compass is sprinkled throughout the year. Students must possess a scientific calculator. A pronounced understanding of the Pythagorean Theorem will be developed during portions of this course. Students must possess a scientific calculator.

**Geometry Honors****Grades 9 & 10**

*Prerequisite: 95% in Algebra I or 93% in Algebra I Honors. Teacher recommendation required.*

May be taken simultaneously with Algebra II.

While this class covers similar subject matter to the college prep course, the honors student will meet with more challenging problems. The honors student will tackle in-depth proofs, three-dimensional analysis and geometric probability. They will encounter a study of coordinate geometry and will be challenged to visually solve problems set on the Cartesian plane. Congruent and similar triangles as well as polygons will be closely examined. Students must possess a scientific calculator.

**Algebra IB Essentials****Grade 10**

*Prerequisite: Administrative placement and/or teacher recommendation.*

Algebra IB continues introducing basic algebraic skills in a logical order, including powers and polynomials, factoring polynomials, rational equations, relations, functions, and variations. It emphasizes practical methods of solving first- and second-degree equations and inequalities. Each chapter includes word problems and real-life applications using technology. This course is designed for students who struggle to achieve success in a traditional college preparatory environment. In order to make this course applicable to these unique students, the fundamental concepts of Algebra are clearly explained and practically applied. Equation solving, polynomials, factoring and graphing are all presented at the students' pace with individual attention, care, and respect given to different learning styles. Practical life application of these skills is achieved through hands on learning. Algebra personal and practical experience rather than an abstract concept. The course also provides a biblical rationale for the study of mathematics. Students MUST possess a scientific calculator. A folder or three-ring binder is recommended.

**Algebra II****Grades 10 & 11**

*Prerequisite: Successful completion of Algebra I.*

May be taken simultaneously with Geometry.

This is a college prep course that emphasizes strengthening of Algebra I skills while taking them to the next level of difficulty and integrating new concepts. Throughout the year we will discuss, among other things, linear systems, factoring, exponents, quadratics and conic sections, as time permits. We will work on note taking and problem-solving skills. Students are required to participate in class. Creative ways to learn and remember concepts are incorporated. Students must possess a scientific calculator. This course may be taken concurrently with geometry.

**Algebra II Honors****Grades 10 & 11**

*Prerequisites: 95% in Algebra I, 93% in Algebra I Honors, 97% in Geometry, or 93% in Geometry Honors. Teacher recommendation required.*

May be taken simultaneously with Geometry.

This is a fast-paced course that emphasizes strengthening of Algebra I skills while taking them to the next level of difficulty and integrating new concepts. Throughout the year we will discuss, among other things, linear systems, factoring, exponents, quadratics and conic sections. This course covers more material and moves at a faster pace than the college prep class. We will work on note taking and problem-solving skills. Students are required to participate in class. Creative ways to learn and remember concepts are incorporated. Students must possess a scientific calculator. This course may be taken concurrently with geometry.

**Algebra IIA Essentials****Grade 11**

*Prerequisite: Administrative placement and/or teacher recommendation.*

During the first half of the year we cover Geometry concepts including discussions on point, line, plane, area and volume as well as emphasis on triangles and circles. Also, as a continuation of Algebra I, this course is designed for students who struggle to achieve success in a traditional college preparatory environment. In order to make this course applicable to these unique students, the fundamental concepts of Algebra are clearly explained and practically applied. Equation solving, polynomials, factoring and graphing are all presented at the students' pace with individual attention, care, and respect given to different learning styles. Practical life application of these skills achieved through hands-on learning, visual aids, and repetition. Through individual attention and encouragement, students will be able to make Algebra personal and practical experience rather than an abstract concept. Students MUST possess a scientific calculator. A folder or a three-ring binder is recommended.

**Algebra IIB Essentials****Grade 12**

*Prerequisite: Administrative placement and/or teacher recommendation.*

This course is a continuation of Algebra IIA, designed for students who struggle to achieve success in a traditional college preparatory environment. This course helps the students to build an understanding of the concepts that provide a strong foundation for future courses and careers. Connecting geometry to the real world and to other subjects and math topics. Involving students in exploring and discovering math concepts. Emphasizes reasoning and logical thinking. Balances coordinate, synthetic, and transformational geometry. Connects geometry to algebra, data analysis, probability, trigonometry, and discrete mathematics. Incorporates two-column, paragraph, flow, and coordinate proof. Lastly, this course has a vast study of Personal Finance. Including an understanding about income taxes, reading pay stubs, finding apartments, budgeting. The students will leave high school with the essential financial skills they need for their future. Students MUST possess a scientific calculator. There will be extra paperwork, a folder is recommended.

**Pre-Calculus****Grades 11 & 12***11th Grade Prerequisites: Successful completion of Geometry and Algebra II.**12th Grade Prerequisites: Successful completion of Geometry and 75% in Algebra II.*

This college preparatory course begins with a review of key Algebra II topics and then proceeds to explore advanced algebraic and trigonometric topics which will prepare the student for calculus. It includes the in-depth study of how to analyze, perform operations on and graph different functions. Polynomial, power, exponential, logarithmic, rational and trigonometric functions will be studied. Concepts are developed both graphically and analytically. As time permits, the course will include a brief survey of matrices, sequences and series. Student participation is strongly encouraged. A TI-84 graphing calculator is required for the duration of the course to enable the student to gain a visual understanding of the concepts being taught and confirm acquired answers.

**Pre-Calculus Honors****Grade 11 & 12***Prerequisite: Satisfactory completion of Geometry Honors and 93% in Algebra II Honors. Teacher recommendation required.*

This fast-paced course reviews key Algebra II concepts and then proceeds to explore families of functions and their transformations, inverse functions, rational functions, polynomial functions, rational equations and inequalities, radical equations, logarithmic and exponential equations and functions. Concepts are developed both graphically and analytically. A significant portion of the year is spent on trigonometry: trigonometric functions, their graphs, trigonometric identities, inverse trigonometric functions, and trigonometric equations. As time permits, the course will include a brief survey of matrices, polar equations, sequences and series. Student participation is strongly encouraged in this class. By the end of this course, the student will have acquired the necessary mathematical skills to successfully study a course in calculus. A TI-84 graphing calculator is required for the duration of the course which enables students to gain a visual understanding of concepts being taught and to confirm acquired answers.

**Calculus****Grades 12***Prerequisite: 75% in Pre-Calculus Honors or 80% in Pre-Calculus. Teacher recommendation required.*

In this course students will have the opportunity to solidify their understanding of the mathematical concepts they previously learned and then be introduced to calculus topics. Calculus topics will include limits, continuity, rates of change, derivatives, extrema, concavity, optimization, related rates, definite and indefinite integrals. A TI-84 graphing calculator is required for the duration of the course enabling students to explore concepts both graphically and analytically. Students will construct their own graphs throughout the course to enhance and confirm their acquired calculus skills.

**Calculus Honors****Grade 12***Prerequisite: 93% in Pre-Calculus or Pre-Calculus Honors. Teacher recommendation required.*

This course will review Pre-Calculus concepts and then explore Differential Calculus for the first semester. Calculus topics will include limits, continuity, rates of change, tangent lines, derivatives, extrema, concavity, optimization, and related rates. The second semester will focus on Integral Calculus which will cover Riemann Sums, definite and indefinite integrals, area under and between curves and volumes of solids of revolution. A TI 84 Plus is required so that concepts can be explored both graphically and analytically. Students will continually graph to enhance and confirm the acquired Calculus skills.



**AP Calculus AB****Grade 12**

*Prerequisite: 95% in Pre-Calculus Honors. Strong attendance record and Teacher recommendation required.*

This course will quickly review Pre-Calculus concepts, mostly through a summer assignment, and then continue to cover the topics that are taught in a college level Calculus I course. Topics are taught at a quicker pace and in greater depth than Calculus Honors. Differential Calculus includes limits, continuity, rates of change, tangent lines, derivatives, extrema, concavity, optimization, and related rates. Integral Calculus explores Riemann Sums, definite and indefinite integrals, differential equation, slope fields, area under and between curves, and volumes of solids of revolutions. A TI 84 Plus or TI Nspire CAS is required so students may explore topics both graphically and analytically. The calculator will also be used to find numerical answers through calculations and graphing. The last month of the course is spent reviewing for the AP Calculus test. A Calculus Workbook, as well as previous AP tests, are integrated into the review, as well as a thorough knowledge of vocabulary and concepts that are studied through the use of flashcards. Students will be well prepared to succeed in the AP Calculus test.

*NOTE: This course also requires students to take the AP Calculus Exam given in May, at a cost of \$110 to the student. The \$110 exam fee must be paid by the end of September. If the fee is not paid the student will be placed into Calculus Honors.*

**Math in Our World****Grade 12**

*Prerequisites: Successful completion of Algebra II or any higher-level mathematics course.*

This course is designed for seniors for whom math is a struggle. Students will spend the year covering personal finance topics through the use of NGPF's Financial Algebra course in addition to other supplemental material. Personal finance topics covered include taxes, checking and savings, budgeting, and credit. Math topics covered include fractions, decimals, linear equations, graphing and systems of equations. Should time permit we will dive into data analysis using the Youcubed Explorations in Data Science curriculum. Students must possess a scientific calculator.

## Senior High Social Studies Department

### **World History/Geography I**

**Grade 9**

This course has been designed to provide students with an overview of geography, world history, and cultures from the beginning of Creation through the Middle Ages. After an introduction in geographic concepts and skills such as map reading and learning to think geographically, students will study the ancient societies of Egypt, the Middle East, India, China, the Americas, Africa, Greece, and Rome. The course will continue with further study of East and South Africa and conclude with the Middle Ages, including feudalism, the rise of the Roman Catholic Church, the growth of Islam, the Crusades, and the Byzantine Empire.

### **World History/Geography I Honors**

**Grade 9**

*Prerequisite: 95% or higher in 8<sup>th</sup> grade history. Teacher recommendation required.*

The Honors course will cover the same time period as the regular 9th grade World History & Geography I course. Students will be challenged to evaluate and defend their opinions relating to past historical events. Critical thinking skills, more in-depth study, and additional reading and writing are distinctive of the Honors course.

### **World History/Geography II**

**Grade 10**

The purpose of this course is to provide students with a rich foundation of the historical events and ideas that helped to shape the modern world. This will include an overview of world history, cultures, and geography, beginning with the European Renaissance and continuing to the present day. The course will involve a study of the Renaissance and Reformation, European exploration and expansion, Asian empires, the Enlightenment, the age of revolutions, the rise of nationalism, the world wars, the Cold War, and conclude with the current world situation.

### **World History/ Geography II Honors**

**Grade 10**

*Prerequisite: 93% in World History/Geography I or 90% World History/Geography I Honors. Teacher recommendation required.*

The Honors course will cover the same time period as the regular 10th grade World History & Geography II course. Students will be challenged to evaluate and defend their opinions relating to past historical events. Critical thinking skills, more in-depth study, and additional reading and writing are distinctive of the Honors course.

### **US History**

**Grade 11**

This course is a comprehensive survey of American History primarily from the beginning of the Reconstruction Era in America through the beginning of the 21st century. The focus of the course is to trace America's history by outlining its progression with regard to government/political structures and emphases, social issues, economic development, and foreign policy. Lessons will be primarily discussion and research driven and all topics will be evaluated through the lens of a Biblical worldview. An overarching goal of the course is to evaluate how the progression in these areas resulted in a distinct American culture.

**US History Honors****Grade 11**

*Prerequisite: 95% in World History/Geography II or 90% in World History/Geography II Honors. Teacher recommendation required.*

This course is a comprehensive survey of American History primarily from the beginning of the Reconstruction Era in America through the beginning of the 21st century. The focus of the course is to trace America's history by outlining its progression with regard to government/political structures and emphases, social issues, economic development, and foreign policy. Lessons will be primarily discussion and research driven and all topics will be evaluated through the lens of a Biblical worldview. An overarching goal of the course is to evaluate how the progression in these areas resulted in a distinct American culture.

The Honors course will cover the same time period as the college prep US History course. Students will be challenged to evaluate and defend their opinions relating to past historical events. Critical thinking skills, more in-depth study, and additional reading and writing assignments throughout the year are distinctive of the Honors course.

**Civics \*****Grade 12**

*Prerequisite: Passing 11th Grade US History.*

This course will provide a foundation for students to understand and view citizenship through two lenses. We will compare and contrast the U.S. Constitution, Case Law, History, and world views with the Word of God in the Bible. This course will include a Christian Stewardship component with a focus on economics and financial planning including product definitions (money market funds, mutual funds, retirement funds, etc.), prioritizing and budgeting. The goal of this component is to prepare students to manage their finances wisely for their family and for the Kingdom of God. Lessons will be discussion and project based with the goal of getting the students to think critically and act biblically. Class will include a field trip to the Capitol. Students will receive a grade and a full credit for Civics, grade will affect a student's GPA.

*\*Course required by CCA to be taken at CCA. Students may not take an online course or college course to replace this class.*

**Civics Honors \*****Grade 12**

*Prerequisite: 95% in US History, US History Honors, and Dual-Enrollment. 93% grade for AP European History.*

This course will provide a foundation for students to understand and view citizenship through two lenses. We will compare and contrast the U.S. Constitution, Case Law, History, and world views with the Word of God in the Bible. This course will include a Christian Stewardship component with a focus on economics and financial planning including product definitions (money market funds, mutual funds, retirement funds, etc.), prioritizing and budgeting. The goal of this component is to prepare students to manage their finances wisely for their family and for the Kingdom of God. Lessons will be discussion and project based with the goal of getting the students to think critically and act biblically. Honors level courses will progress at an accelerated pace and cover the same topics as the college prep course, but in a more in-depth manner. It will also include higher expectations in quality and quantity of work. Class will include a field trip to the Capitol.

Students will receive a grade and a full credit for Civics. Grade will affect a student's GPA.

*\*Course required by CCA to be taken at CCA. Students may not take an online course or college course to replace this class.*

**AP European History****Grades 10-12**

*Prerequisite: 93% in World History/Geography II Honors or 93% in US History Honors. Strong attendance record and Teacher recommendation required.*

AP European History is a college-level course that introduces students to the intellectual-cultural, political-diplomatic, and social-economic history of Europe from 1450 to the present. Performance on the AP European History Exam determines a student's eligibility for up to six hours of college credit (the equivalent of a two-semester course). In addition to providing a basic exposure to the factual narrative, the goals of the AP European History course are to develop:

- An understanding of the principle themes in modern European history;
- The ability to analyze historical evidence;
- The ability to express that understanding and analysis effectively in writing.

This course includes history both as content and as methodology. Emphasis is placed on intellectual and academic skills, including:

- Analysis of primary sources;
- Effective note taking;
- Clear and precise written expression;
- The ability to weigh evidence and reach conclusions.

*NOTE: This course also requires students to take the AP European History Exam given in May, at a cost of \$110 to the student. The \$110 exam fee must be paid by the end of September. If the fee is not paid the student will be placed into Calculus Honors.*

## Senior High Foreign Language Department

### Senior High French

#### **French I**

**Grades 9-11**

This course introduces the student to the French-speaking world and the French language to prepare the student for real-life communication. It will teach the student how to socialize in French, express feelings, and opinions, and thrive in a French-speaking country. Elementary proficiency in the skills of reading, writing, listening, and speaking is developed. Cultural topics as well as the integration of a biblical worldview is incorporated into this course.

#### **French II**

**Grades 9-12**

This course continues to grow the student's knowledge of the French-speaking world and the French language to prepare for and express real-life communication. Students go deeper in socialization, expression of feelings and opinions, and practical application of living in a French-speaking country. Advanced proficiency in the skills of reading, writing, listening, and speaking is developed. Cultural topics as well as the integration of a biblical worldview is incorporated into this course.

#### **French II Honors**

**Grades 10-12**

Prerequisite: 93% in French I.

This course continues to grow the student's knowledge of the French-speaking world and the French language in deeper ways to prepare for and express real-life communication. Students go deeper in socialization, expression of feelings and opinions, and practical application of living in a French-speaking country. Higher level advanced proficiency in the skills of reading, writing, listening, and speaking is required. This course covers much of the same content as French II College Prep but with a greater responsibility and accountability on the student in the areas of expression, writing, and listening. Higher level of difficulty/depth for assessments, assignments, in class discussions, etc. (indicated by "ADV") via differentiated curriculum. Biblical passage assessments require English and French written forms and French spoken. Consistent dialogue in class is required for each student as well as translating French passages of greater difficulty.



## Senior High Spanish

### **Spanish I**

**Grades 9-11**

The purpose of Spanish I is to communicate with people who speak the language and to understand their cultures. Students will read Spanish to be able to interpret intended meanings. Students will also express meaning by conveying their own messages and negotiate meaning through understanding and making themselves understood. Students will learn basic grammar in a meaningful context and connected to real communication needs.

In Spanish I students will read information about cultures that offer different perspectives, and they will be encouraged to think and to make observations about cultures and demonstrate an understanding of the relationship between the practices and perspectives of the culture studied. Spanish I students will be able to engage in conversation, provide and obtain information, express and exchange opinions.

### **Spanish II**

**Grades 9-12**

This course will help the student attain proficiency in the four skills of listening, reading, speaking, and writing (emphasis in Spanish grammar). The student will learn the language within the context of the contemporary Spanish-speaking world and its culture.

### **Spanish II Honors**

**Grades 9-12**

*Prerequisite: 95% in Spanish I.*

This Spanish course is intended for students who are seriously considering continuing on to Spanish III and IV and even college level Spanish. The course will cover the topics included in Spanish II more quickly and with much greater depth and rigor; additionally, speaking and listening skills and more conversation are required.



## Fine Arts Electives

### **Band (Full-Year Elective 1.0 credit)**

**Grades 9-12**

*Prerequisite: A basic ability to play a band instrument (woodwind, brass, percussion), read music and teacher approval.*

In this class, the student rehearses and performs symphonic and classical repertoire. Emphasis is on sight-reading, listening skills, ensemble playing and music theory. The student will perform at school concerts and outside festivals (4 per year). The senior high bands also take a four-day festival trip to various theme parks (cost is approximately \$350).

### **Jazz Band (Full-Year Elective 0.5 credit Does NOT affect GPA)**

**Grades 9-12**

*Prerequisite: An advanced ability to play a band instrument (woodwind, brass, or rhythm section – piano, bass, drums, guitar), read music and audition with teacher approval.*

In this class, the student rehearses and performs popular jazz repertoire. Emphasis is on sight-reading, listening skills, improvising, ensemble playing and music theory. The student will perform at school concerts and outside festivals (4 per year). The senior high bands also take a four-day trip to a theme park for a festival (cost is approximately \$350).

### **Choir (Full-Year Elective 1.0 credit)**

**Grades 9-12**

“Sing unto the LORD a new song”. All choir classes emphasize singing with one heart and one voice. Students will be placed according to their vocal range. We will learn to sing a variety of music from gospel to classical with an emphasis on vocal blend, pitch, breathing and dynamics. Rehearsals are structured but fun as we fellowship and worship through warm-ups and song. The choir will perform for the winter and spring concerts and other ministry events during the school year.

### **Art I (Full-Year Elective 1.0 credit)**

**Grades 9-12**

Art I is an introduction to making and thinking about art. It is very hands on, and all about creating! Students will learn how to draw and paint in a variety of media and styles. We will learn about art history and about what God thinks about art. Art I is for anyone who wants to make things and stretch their creative skills.

### **Art II (Full-Year Elective 1.0 credit)**

**Grades 10-12**

*Prerequisite: Art I with a grade of “85” or better.*

Art II builds on what was learned in Art I and focuses on various careers in art such as: illustration, fashion design, graphic design, art history, art therapy, etc., through hands-on projects. Art II builds on the drawing and painting skills learned in Art I, but we also experiment with new media like printmaking and sewing. It is all about creating and exploring all the different ways art is a part of our world!

### **Art III (Full-Year Elective 1.0 credit)**

**Grades 11-12**

*Prerequisite: Art II with a grade of “85” or better.*

Art III builds on what was learned in Art II through various hands-on multimedia projects and incorporates more and more independence and creative freedom! You will experiment with composition and storytelling through various projects and two-dimensional media. This class is great for creating portfolio pieces for art school applications or just growing your own creative practice and finding your voice as an artist!

**Art IV (Full-Year Elective 1.0 credit)****Grade 12**

*Prerequisite: Art III with a grade of "85" or better.*

Art IV focuses on building a portfolio for art school and on independent projects. If you have a passion for art, whether you want to go to art school or not, this class will stretch your creativity and independence, and allow you to refine your art skills and explore projects that really interest you!

**Sculpture (Full-Year Elective 1.0 credit)****Grades 9-12**

Sculpture is an introduction to making three-dimensional art and sculpture. We use wire, paper, fabric, cardboard, found objects, clay, and more to make large and small sculptures in all different styles and subject matters. It is a very hands-on class, and great for anyone who is interested in art, creativity, and making things but does not want to work on drawing or painting.

**Ceramics (Full-Year Elective 1.0 credit)****Grades 9-12**

Ceramics is an introduction to creating functional objects (like mugs and bowls) and creative sculptures using clay. We will learn different methods of hand building and try out the potter's wheel. It is a very hands-on class, and great for anyone who is interested in art, creativity, and making things but does not want to work on drawing or painting.

**Ceramics II (Full-Year Elective 1.0 credit)****Grades 10-12**

*Prerequisite: grade of 85% or higher in Ceramics. Spots are limited. Teacher approval required.*

Ceramics II is a highly independent elective focused on refining your wheel throwing skills. You will make a set of basic functional objects, progress to more complex wares like tea pots, and even make some sculptures. If you loved the wheel in ceramics, this elective is for you. Space is limited to only 4 students per year.



## Drama Electives

### **Drama (Full-Year Elective 1.0 credit)**

**Grades 9-12**

Open to all interested in exploring Theater as an expression of worship and praise to our Lord, we will use our God-given gifts to work on performance presentations in the form of Poetry, Scene Studies, Monologues, One-Act Plays or Human Video, while learning and refining acting techniques. No prior experience is required, and no one is too experienced to learn. If, as Shakespeare wrote, “all the world is a stage and all the men and women merely players... and one man in his time plays many parts,” perhaps there is a role in High School Drama scripted for you by God, where you will be blessed and be a blessing to others.

## Culinary Arts Electives

### **Culinary Arts I (Full-Year Elective 1.0 credit)**

**Grades 9-12**

The purpose of this course is to cultivate a desire for the student to get acquainted with the art of cooking. During the school day, the student creates delectable recipes that produce sweet aromas which permeate the hallways and often attracts the unexpected visitor. Students will learn to create recipes working together as a group to achieve delectable sweet and savory foods. After taking this course, your child will amaze you with their skills in the kitchen. Not only that, but they will be able to prepare a dish that will tantalize your taste buds.

"Every man should eat and drink and enjoy the good of all his labor- it is the gift of God."

The curriculum of Culinary Arts contains recipes that may include ingredients such as peanuts, milk, eggs, and wheat. If your child has an allergy to any of the aforementioned ingredients or has a food allergy less common than the ones previously mentioned, please make sure he or she does not register for this class. CCA will not be responsible for the administration or oversight of food allergies as it relates to food consumed in this course.

### **Basics of Baking (Full-Year Elective 1.0 credit)**

**Grades 9-12**

The purpose of this course is for the student to get acquainted with the art and fundamentals of baking through the exploration of recipes and various techniques. During the school day, the students will work together in groups to create delectable recipes that will make the passersby feel as though they walked past their local bakery. Not only will we explore recipes, but we will also explore some of the science involved in turning dough and raw ingredients into delicious baked goods. After taking this course, your child will amaze you with their skills in the kitchen. Not only that, but they will be able to prepare a baked good that will tantalize your taste buds.

"Every man should eat and drink and enjoy the good of all his labor - it is a gift of God."

The curriculum of Basics of Baking contains recipes that may include ingredients such as peanuts, milk, eggs, and wheat. If your child has an allergy to any of the aforementioned ingredients or has a food allergy less common than the ones previously mentioned, please make sure he or she does not register for this class. CCA will not be responsible for the administration or oversight of food allergies as it relates to food consumption in this course.

## World Language Electives

### **Spanish III Honors (Full-Year Elective 1.0 credit)**

**Grades 10-12**

*Prerequisite: 95% in Spanish II. Teacher recommendation required.*

This course is conducted in English and Spanish and emphasizes the review of grammatical concepts. Stress is placed on speaking and listening skills and conversation fluency. A study of Spanish America's civilization and culture is also emphasized through the use of selected representative literary works by Latin American authors.

### **Spanish IV Honors (Full-Year Elective 1.0 credit)**

**Grades 10-12**

*Prerequisite: 90% in Spanish III Honors. Teacher recommendation required.*

This course is conducted primarily in Spanish and emphasizes the reading of Spanish stories and the review of grammatical concepts learned in previous study. More complex sentences are used and analyzed. Stress is placed on speaking and listening skills and conversational fluency.

## Health & Physical Education Electives

The Physical Fitness program requires that students be prepared to participate in their elected physical fitness classes. Failure to do so will result in the student being assigned to another elective.

### **PE/Athletics/Health 9-12 Boys (Full-Year Elective 1.0 credit)**

**Grades 9-12**

In High School PE we will be diving into a variety of units that fall under the following two topics: team sports and individual sports/fitness. It is designed from a biblical perspective that acknowledges the root of how we have been created by God and therefore have a responsibility to take care of ourselves physically and spiritually. We will alternate between team sport units and individual sports/fitness units as the year progresses. Some team sports will include football, ultimate frisbee, and volleyball. Some individual sports/fitness include weight training and pickleball.

This health course is taught alongside our PE/Athletics curriculum. It is designed from a biblical perspective to inform high school students on crucial and relevant topics of health and equip them with the tools to make beneficial choices for their health as a whole. Since we, as humans, are complex individuals, we will be looking at all four aspects of health while incorporating spiritual health into each one. This includes physical health, mental health, personal health and social health.

### **PE/Athletics/Health 9-12 Girls (Full-Year Elective 1.0 credit)**

**Grades 9-12**

In High School PE we will be diving into a variety of units that fall under the following two topics: team sports and individual sports/fitness. It is designed from a biblical perspective that acknowledges the root of how we have been created by God and therefore have a responsibility to take care of ourselves physically and spiritually. We will alternate between team sport units and individual sports/fitness units as the year progresses. Some team sports will include pickleball, ultimate frisbee, and volleyball. Some individual sports/fitness include weight training, jump roping/double dutch, and pilates.

This health course is taught alongside our PE/Athletics curriculum. It is designed from a biblical perspective to inform high school students on crucial and relevant topics of health and equip them with the tools to make beneficial choices for their health as a whole. Since we, as humans, are complex individuals, we will be looking at all four aspects of health while incorporating spiritual health into each one. This includes physical health, mental health, personal health and social health.

## Business, Computers & Information Technology Electives

### **2D Animation and Game Development (Full-Year Elective 1.0 credit)**

**Grade 10-12**

*Prerequisite: 80% or higher in Computer Science Principles and Programming*

Welcome to 2D Animation and Programming. This course will include drawing vector objects, animations, and coding with JavaScript and HTML 5. Students will use Adobe Animate application software. Students will learn to create frame-to-frame animation, shape, and a classic tween. Additionally, students will learn how to character rig for limb movement. students will work with 2d animation using Adobe Animate and HTML5. In this part of the class, students will continue to learn to create games using artwork they make, as well as coding with various programming structures.

### **Computer Graphics (Full-Year Elective 1.0 credit)**

**Grades 9-12**

*Prerequisite: Completion of Digital Arts and Photography*

The Computer Science Principles (CSP/Java) class is a comprehensive year-long introductory course for high school students, providing a rigorous exploration into the fundamentals of modern computing and STEM. It encompasses a wide array of foundational subjects including programming, algorithms, the internet, big data, digital privacy and security, and the societal implications of computing. The course is structured to enable students to delve into the realm of computer science through practical engagement in computational thinking practices. Through various activities, students will gain insights into the creative aspects of computing, problem-solving techniques, abstraction, and the collaborative nature inherent in the field.

### **Computer Science Principles and Programming (Full-Year Elective 1.0 credit)**

**Grades 9-12**

The Computer Science Principles (CSP/Java) class is a comprehensive year-long introductory course for high school students, providing a rigorous exploration into the fundamentals of modern computing and STEM. It encompasses a wide array of foundational subjects including programming, algorithms, the internet, big data, digital privacy and security, and the societal implications of computing. The course is structured to enable students to delve into the realm of computer science through practical engagement in computational thinking practices. Through various activities, students will gain insights into the creative aspects of computing, problem-solving techniques, abstraction, and the collaborative nature inherent in the field.

### **Digital Arts and Photography (Full-Year Elective 1.0 credit)**

**Grades 9-12**

In a multimedia saturated world, students should be equipped with visual communication skills. Along with graphic arts, this class will also give emphasis to photo composition and camera mechanics. Students will learn camera mechanics such as: iso, aperture, and shutter speed as well as various types of creative compositions. Additionally, students will learn to create digital art using both vector and raster programs. Specifically, students will become proficient in various digital tools. In addition to taking photos, students will design posters and other various multimedia designs. Students will have ample opportunity to express their creative side, as well as develop excellent computer skills. At the end of the class students will have a portfolio of the photos and graphic designs they have produced.

**Computer Graphics (Full-Year Elective 1.0 credit)****Grades 9-12***Prerequisite: Completion of Digital Arts and Photography*

The Computer Science Principles (CSP/Java) class is a comprehensive year-long introductory course for high school students, providing a rigorous exploration into the fundamentals of modern computing and STEM. It encompasses a wide array of foundational subjects including programming, algorithms, the internet, big data, digital privacy and security, and the societal implications of computing. The course is structured to enable students to delve into the realm of computer science through practical engagement in computational thinking practices. Through various activities, students will gain insights into the creative aspects of computing, problem-solving techniques, abstraction, and the collaborative nature inherent in the field.

**Video Editing (Full-Year Elective 1.0 credit)****Grade 12**

Lights, camera, action! Students in this class will learn how to compose video using different types of media. Students will learn to use a video camera and identify good composition in taping. Capturing memories with classmates will be used to create an end of year video that will include all classmates from their graduating class. This video will be distributed to every senior at the end of the year. In addition to this video, students will create other videos for personal and classroom use. Students will learn to create special effects, enhance digital media as well as normalize audio to perfect their end product.

**STEM (Full-Year Elective 1.0 credit)****Grades 9 - 12**

Do you like to build things? Do you like to figure out how things work? Do you learn by doing? If so, STEM class is for you! STEM stands for science, technology, engineering and math. Students will learn how to integrate all these content areas to be prepared for the 21st century. This course is project-based and assignments are designed to develop critical thinking skills, improve communication, and apply problem-solving techniques to real-world problems. Students will practice the engineering design process which focuses on learning how to brainstorm, gather information, develop ideas, create models, test, evaluate, redesign, and share solutions. Some of the topics students will explore include design and modeling, simple machines, energy and the environment, flight and space, and robotics/circuitry among others.

**Adventures in Math (Full-Year Elective 1.0 credit)****Grade 9-12**

The laid-back style of this class makes it both educational and fun. We will look at some interesting topics in math that only briefly get mentioned in traditional classes. Some topics include Mobius Strips and the Golden Ratio. In addition, students will look at the mathematicians who developed the concepts we study today, as well as the history of math itself. We will also watch some movies, look at the math that appears in some popular books, and enjoy logic and sudoku puzzles. Much of the work will be of an in-class, hands on project nature.

## Publication & Design Electives

### **Storytelling: Writing Outside the Lines (Full-Year Elective 1.0 credit)**

**Grades 9-12**

Spend time playing with words and literary devices, brainstorming and completing entertaining activities using imagery, creating posters and visual arts to celebrate communication, writing, and creativity in a written or displayed piece. We will write engaging pieces that combine our own thoughts, dreams, and experiences with various writing styles like blackout poetry, 6-word memoirs, letters, journals/diaries, free writing and much more. All work will seek to honor God so that Psalm 19:14 can be said of us.

### **Yearbook (Full-Year Elective 1.0 credit)**

**Grades 10-12**

*Prerequisite: Basic writing, photography and computer skills.*

This course is designed to guide students in the creation of the school yearbook. Students learn basic principles of yearbook production and develop skills that include writing captions and headlines; digital photography; desktop publishing and using appropriate technology tools for media production. Students brainstorm and work together to develop a theme, gather verses and quotes, and produce pages to create a quality yearbook that reflects the pictorial history of the activities for the present school year. Students in the yearbook class are the leaders and decision-makers of the yearbook staff of Calvary Christian Academy.