

# **Parkview Christian Academy High School Course Guide**



**2022-2023**

## **Table of Contents**

<b>BIBLE</b>	<b>2</b>
<b>BIBLE ELECTIVES</b>	<b>3</b>
<b>CHILD DEVELOPMENT ELECTIVES</b>	<b>4</b>
<b>ENGLISH LANGUAGE ARTS</b>	<b>5</b>
<b>ENGLISH LANGUAGE ARTS ELECTIVES</b>	<b>6</b>
<b>FINE ARTS ELECTIVES</b>	<b>7</b>
<b>FOREIGN LANGUAGE</b>	<b>8</b>
<b>MATHEMATICS</b>	<b>9</b>
<b>PHYSICAL EDUCATION</b>	<b>12</b>
<b>PHYSICAL EDUCATION ELECTIVES</b>	<b>13</b>
<b>SCIENCE</b>	<b>14</b>
<b>SOCIAL SCIENCES</b>	<b>16</b>
<b>SOCIAL SCIENCES ELECTIVES</b>	<b>17</b>
<b>TECHNOLOGY ELECTIVES</b>	<b>18</b>

# BIBLE

**Note:** Students must pass one Bible credit for each year they are enrolled at Parkview.

## BIBLE 9/10

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Credits: 1

Grade(s): 9, 10

Recommended Prerequisites: None

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Bible 9/10 is offered as a two-year alternating class. **Students must pass both years of Bible 9/10 as a graduation requirement.** During year one, the Gospel of John is studied, focusing on Jesus's birth, life on earth, and resurrection. Students will also read and study Chuck Swindoll's book, "The Strong Family", which encourages them to apply biblical principles in authenticity. Year two focuses on the study of several of Paul's epistles - 1&2 Corinthians, 1&2 Timothy, 1&2 Thessalonians, Philippians, Titus, and Philemon.

## THEOLOGY I

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Credits: 1

Grade(s): 11, 12

Recommended Prerequisites: Bible 9/10

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**Students must pass Theology I as a graduation requirement.** Theology I seeks to train students to interact with biblical truth. The first year of theology focuses on how the Bible was put together and why we can trust it, who is man and what is sin, the church's role and how to be good stewards of it, and end times studies. Note: Theology I and Theology II may be taken in any order.

## THEOLOGY II

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Credits: 1

Grade(s): 11, 12

Recommended Prerequisites: Bible 9/10

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**Students must pass Theology II as a graduation requirement.** Theology II seeks to train students to interact with biblical truth. The second year of theology focuses on who God is and how we can know Him. These topics deal with the Trinity as defined by scripture as Father, Son, and Holy Spirit, and how the metanarrative defines how we can come to saving faith in our Lord Jesus Christ. Note: Theology I and Theology II may be taken in any order.

# BIBLE ELECTIVES

## **APOLOGETICS**

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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This course includes a survey and evaluation of various Christian approaches to apologetics and an examination of various worldviews, with an emphasis on the development of a Christian worldview. The emphasis will teach that Christianity is a cohesive worldview and not a haphazard collection of morals.

## **CHURCH HISTORY**

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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In this course, students will study the preparation of the ancient world for the coming of Christianity, the founding and development of the Christian church, the history from the Apostolic Age to the Reformation, the specific importance of the Reformation era, the spread of the Protestant church, and the transplanting and growth of the church worldwide. This course will offer further observation for character studies and motivating factors.

# CHILD DEVELOPMENT ELECTIVES

## CHILD DEVELOPMENT SEMINAR

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Credits: 0.5

Grade(s): 10, 11, 12

Recommended Prerequisite: Approval by administration and administering teacher required

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This course will be divided into a seminar section. The seminar days will include students learning about a child's physical, social, emotional, and cognitive development from birth through school-age. Students will apply this information through observation, reflection, and creation of developmentally appropriate activities. This should be paired with a Practicum experience at either lower or upper campus as well before the end of a student's high school studies.

## CHILD DEVELOPMENT PRACTICUM

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Credits: 1-3

Grade(s): 11, 12

Recommended Prerequisite: Approval by administration and administering teacher required

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Elementary Practicum: The practicum days will include students spending their time in a designated preschool or kindergarten room at Lower Campus. Students will be under the direction of a supervising teacher on practicum days.

Secondary Practicum: The practicum will involve a Secondary Teaching Assistantship as described below.

## SECONDARY TEACHING ASSISTANTSHIP

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Credits: 0.5-1

Grade(s): 11, 12

Recommended Prerequisite: Approval by administration and administering teacher required.

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In this course, students will have the opportunity to work closely with a younger classroom and under the supervision of a classroom teacher. Students will be assisting the classroom teacher in daily tasks, guiding students through practice exercises, and helping with student projects.

# ENGLISH

## ENGLISH 9/10

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Credits: 1

Grade(s): 9 & 10

Recommended Prerequisite: None

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English 9/10 is offered as a two-year alternating class. **Students must pass two years of English 9/10 as a graduation requirement.** Both years of this course cover all areas of language arts: reading, writing, listening, speaking, and viewing. Students will read and further comprehension skills through short stories, novels, non-fiction works, poetry, and drama. Composition skills will be refined through journal work, creative pieces, literary response and analysis, as well as argument and expository writing. Emphasis will be placed on speaking, listening, and viewing through presentations, speeches, and other performances. Other areas of focus include parts of speech, punctuation, capitalization, word choice, word parts, and vocabulary study.

## ENGLISH 11/12 - BRITISH LITERATURE

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Credits: 1

Grade(s): 11, 12

Recommended Prerequisite: English 9/10

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**Students must pass British Literature as a graduation requirement.** This course allows students to explore British history and literature from the Middle Ages up through the present day. Emphasis is placed on the ways literature and art reflect a culture's beliefs and values through the ages. Students can expect to read epics and other poetry, legends, diaries and journal entries, as well as drama and fiction. This course also includes novel and full-length play studies. Grammar, vocabulary, and composition will continue to be a focus, and they will be tied closely to the reading selections. Note: The two years of English 11/12 can be taken in any order.

## ENGLISH 11/12 - AMERICAN LITERATURE

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Credits: 1

Grade(s): 11, 12

Recommended Prerequisite: English 9/10

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**Students must pass American Literature as a graduation requirement.** This course allows students to explore American history and literature from the time of the Native Americans up through present day. Emphasis is placed on the ways literature and art reflect a culture's beliefs and values through the ages. Students can expect to read legends, primary sources, poetry, as well as drama and fiction. This course also includes novel and full-length play studies. Grammar, vocabulary, and composition will continue to be a focus, and they will be tied closely to the reading selections. Note: The two years of English 11/12 can be taken in any order.

# ENGLISH LANGUAGE ARTS ELECTIVES

## CREATIVE WRITING

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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In this course, students will learn to perfect the art of narrative writing, poetry, and play writing. The course will display the extensiveness of literary expression by using class time for both quick, individual brainstorms and creative class projects. Students will learn and attempt different types of writing, while also gathering helpful techniques along the way. This course will encourage students to stretch their creativity as they learn more about the art of creative writing.

## JOURNALISM

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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This course teaches students the valuable history of journalism and the importance of responsible reporting. In this course, students will focus on various types of articles and journalistic writing, interviewing techniques, newspaper design, and photography. This class will occasionally have the opportunity to work with the Yearbook class to provide captions and timely articles for the school yearbook.

## INDEPENDENT READING

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: Students should be a self-disciplined, motivated (active) reader, note-taker, and comfortable communicator (written and spoken) about the books they are reading.

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Students will choose books to read throughout the semester upon which they will take notes and create a write-up before a conference with the teacher upon completion of each book. All selections would need to be pre-approved (based on appropriate reading level for the student's ability and appropriateness), and throughout the semester students will be required to choose from a variety of genres to widen their reading experience (such as Christian or secular fiction, Christian or secular auto/biography, Christian or secular nonfiction). Whether the book chosen is explicitly Christian or not, students would consider the ideas presented from a biblical perspective. At the end of the semester, students will write a synthesis paper on (a) theme(s) they have identified in the books they have read.

# FINE ARTS ELECTIVES

## ART APPRECIATION

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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In this course, students will begin learning and applying the elements of art and principles of design to produce creative art projects that reflect an understanding of the previous concepts. Students will continue using and applying these concepts to further explore various art techniques and styles.

## HIGH SCHOOL CHORUS

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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This course will provide students with the opportunity to learn both Christian and secular music. This includes but is not limited to gospel songs, hymns, show-tunes, pop music, and other genres. Students will also be given the opportunity to learn how to read sheet music if they have not done so in the past. Throughout this course, students will learn to perfect proper singing techniques, independent singing, and singing within a group. Students should expect to sing in front of live audiences during programs, Chapels, and outside events. No audition or previous experience necessary.

## HIGH SCHOOL THEATER

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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In this course, students will be given the opportunity to learn and discuss all aspects of live theater. These aspects include, but are not limited to: script reading and performing, readers theater, pantomime, stage directions and set construction, voice projection and vocal dialects, puppets, melodrama, and theater history. Students should expect to perform in front of a live audience during various events.

## WORSHIP LEADERSHIP

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Credit: 0.5 per semester

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: Prior music experience preferred (not required)

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Worship Leadership is a full-year class, where our goal will be to build the kind of strong, humble worship team that will enhance and enable a congregation to praise God without obstruction or distraction. This is a class designed for students with musical experience (singing, instruments, etc.) as we will be responsible for facilitating the worship for chapel each week. Students enrolled in this class should expect to sing every day.



## **PIANO LAB**

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: No prior experience necessary

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This course is for students who wish to learn to play piano in a group setting. Little-to-no experience is required as the course starts with training in basic skills. Students will begin the school year in a classroom style setting to learn all of the basics of music including (but not limited to) note names, staff, treble clef, bass clef, time signature, whole note, half note, quarter note, eighth note, sixteenth note and their corresponding rests. Other concepts and symbols will be taught at this time as well. Once the students understand the basic concepts of music theory, they will move to actual keyboards. The first week of playing the keyboards will be spent playing without headphones as a group. All students must be able to play provided music and keep a steady beat; knowing which note names are assigned to which keys on the piano. Once all students are aware of the basic keyboard concepts they will use headphones and practice music from their piano lesson book. The teacher will circulate around the room, listening to students playing their lessons. When they have their music prepared and are ready to play they will unplug their headphones and perform. If the selection is played with 95% accuracy the student will then be assigned the next page in the lesson book. New concepts for the next song will be taught and the student will then begin practicing again.

# FOREIGN LANGUAGE

## SPANISH I

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Credits: 1

Grade(s): 9, 10, 11

Recommended Prerequisite: None

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**Students are required to pass Spanish I as a graduation requirement.** Students use extensive vocabulary and grammar to develop their skills at this level. Students work with the present, present progressive, near past and near future tenses, with a brief exposure to the preterite tense at the end of the year.

## SPANISH II

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Credits: 1

Grade(s): 10, 11, 12

Recommended Prerequisite: Spanish I with a C or better

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Students continue developing their foreign language skills with an extensive review of Spanish I and the continued use of practical vocabulary and grammar. Much attention is devoted to the comparison and contrast of the preterite and imperfect tenses, as well as the use of tenses learned in Spanish I.

## SPANISH III

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Credits: 1

Grade(s): 11, 12

Recommended Prerequisite: Spanish II with a B or better

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This course provides students with the opportunity to continue learning and developing the communicative language skills and consciousness of cultures associated with the language. Students will review important concepts from previous years, and will begin learning new forms of grammar used in contemporary Spanish.

## SPANISH IV

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Credits: 1

Grade(s): 12

Recommended Prerequisite: Spanish III with a B or better

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In this course, students will continue to develop and practice communicative language skills, while also gaining appreciation for the language and heritage of Spanish speakers. This course displays a substantial emphasis on the impact intercultural understanding has on one's personal faith and life choices. A component of this course will be in-class preparation for the Spanish AP test.

# MATHEMATICS

## ALGEBRA I

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Credit: 1

Grade(s): 9, 10

Recommended Prerequisite: None

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This course focuses on the structure of the real number system. The solutions of equations, inequalities, and systems of equations and inequalities are presented. Graphing, both as a means of displaying data and analyzing data in one and two dimensions, is an integral part of this course. Other topics include: exponents, function analysis and quadratics and their applications.

## ALGEBRA 1A

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Credit: 1

Grade(s): 9, 10

Recommended Prerequisite: None

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Algebra 1A is a course for students who would benefit from a slower paced Algebra 1 experience. Throughout the year only the first six chapters of the Algebra 1 curriculum are covered and the rest is covered in the following year in the Algebra 1B course. Only covering the first six chapters allows this class to go at a slower pace to make sure the students are fully taking in and learning all the topics covered. This course will cover topics such as performing operations in the real number system, simplifying expressions, and solving, graphing, and writing linear equations and inequalities.

## ALGEBRA 1B

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Credit: 1

Grade(s): 10, 11

Recommended Prerequisite: Algebra 1A

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Algebra 1B is a course for students who would benefit from a slower paced Algebra 1 experience. This is the 2nd half in this two course Algebra 1 sequence, preceded by Algebra 1A. Only covering the last six chapters allows this class to go at a slower pace to make sure the students are fully taking in and learning all the topics covered. This course will cover topics such as solving systems of equations and inequalities, simplifying radical expressions, solving quadratic equations in factored form, by using the Square Root Property, and graphically, identifying and performing operations on polynomials, solving problems in regards to ratios and proportionality, and an introduction to Geometry.

## **INTERMEDIATE ALGEBRA**

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Credits: 1

Grade(s): 10, 11

Recommended Prerequisite: Algebra 1 or Algebra 1A & 1B

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This course is designed for students who would benefit from a slower paced Algebra 2 class. The course covers Algebra 2 topics, but at a slower speed and in less depth than the Algebra 2 class. The slower pace allows the students to have a better understanding of the material before moving on to the next concepts. This course covers topics such as solving equations and inequalities, graphing functions, systems of equations, exponent rules, rational expressions, and quadratic equations.

## **ALGEBRA II**

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Credits: 1

Grade(s): 10, 11

Recommended Prerequisite: Algebra 1

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This course expands on concepts covered in Algebra 1 but develops a deeper understanding while introducing more advanced algebra topics. The Algebra 2 units include linear models, linear systems, functions and relations, modeling and solving quadratic equations, polynomial functions, radical functions, exponential and logarithmic functions, rational functions and conic sections. A graphing calculator (TI-84 or equivalent is recommended) is required.

## **GEOMETRY**

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Credits: 1

Grade(s): 10, 11, 12

Recommended Prerequisite: Intermediate Algebra or Algebra 2

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This course is a study of the fundamental concepts of geometry. Topics include parallel lines, polygons, congruent and similar figures, right triangles, circles, surface area, and volume. Emphasis is given to problem solving through the use of logic and deductive reasoning. Formal proofs will be an integral part of the course. Algebraic techniques are integrated into the solution of many geometric problems.

## **INFORMAL GEOMETRY**

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Credits: 1

Grade(s): 10, 11, 12

Recommended Prerequisite: Intermediate Algebra or Algebra 2

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Informal Geometry is a course for students who would benefit from a slower pace and more practical application of geometry topics. This course is NOT appropriate for students planning to pursue math or science topics in college.

## **PRE-CALCULUS**

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Credits: 1

Grade(s): 11, 12

Recommended Prerequisite: Geometry, Algebra 2 with a C or better

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The purpose of this course is to prepare students for the study of more advanced math classes. Semester 1 will focus on Precalculus units. Students will study functions and their characteristics, higher-order polynomial functions, and exponential and logarithmic functions. Semester 2 will focus on trigonometry. Students will study the radian unit of measure, right triangle and non-right triangle trigonometry, and the six trigonometric functions and their inverses. Studies of the graphs of the six trig functions will be included. Students will conclude their semester with in depth studies of trigonometric equations and identities.

## **CALCULUS**

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Credits: 1

Grade(s): 12

Recommended Prerequisite: Pre-Calculus

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This course teaches students different concepts and skills of limits, derivatives, definite integrals, and the fundamental theorem of calculus. Students will practice approaching and making connections between calculus concepts and problems when represented graphically, numerically, analytically, and verbally. Students will learn how to use technology to aid in solving problems, experimenting, interpreting results, and supporting conclusions. This course prepares students to take an advanced placement exam for college credit.

## **HONORS STATISTICS**

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Credits: 1

Grade(s): 11, 12

Recommended Prerequisite: Pre-Calculus

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Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. Problem-solving activities provide an opportunity for students to demonstrate their skills in real-world situations. This course follows the standards for the College Board's AP Statistics curriculum. Students may register to take the AP Exam at the end of this course.

# PHYSICAL EDUCATION

## PHYSICAL EDUCATION

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Credits: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisites: None

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**Students must be enrolled in Physical Education each year they are in high school as a graduation requirement.** Physical Education classes are designed to teach practical skills in activities that will help students maintain fitness throughout their lives. We will explore a variety of sports and fitness activities that will help to improve overall health. Students will learn that regular exercise can be beneficial to a person's mental, physical, and social health.

## HEALTH

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Credits: 0.5

Grade(s): 10, 11, 12

Recommended Prerequisites: None

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**Students must pass health as a graduation requirement.** Health is the overall well-being of a person physically, mentally, spiritually, emotionally, and socially. In this class, students will learn about how to maintain good health in all areas of their life. This course will cover mental, spiritual and social health, nutrition, physical fitness, substance abuse, human development, disease prevention, and community health and safety. The students will also study God's Word and find out how it relates to these areas of health in their lives.

# PHYSICAL EDUCATION ELECTIVES

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## STRENGTH AND CONDITIONING

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Credits: 0.5

Grade(s): 10, 11, 12

Recommended Prerequisites: None

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This class is designed to help develop the strength of students through weight training. Students will be taught how to create their own workouts appropriate for their ability level and goals. Part of the class will take place in a classroom and in the Parkview gym. Class will involve some sports to develop athletes.

## CROSSFIT

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Credits: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisites: None

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This course covers the fundamental principles and movements of CrossFit. The program gives instruction on the CrossFit methodology through classroom instruction, technique breakdown, and coach-led workouts. All aspects of the course are supportive of all levels of athletic ability, from the absolute beginner to the more experienced. Areas of instruction include Olympic lifting, powerlifting, metabolic conditioning, gymnastics, mobility training, nutrition, and workout programming.

## FITNESS ASSESSMENT & EXERCISE PRESCRIPTION

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Credits: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisites: None

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This course introduces students to exercise prescription principles and exercise program design. Students learn to prescribe exercise for both general and special population groups. Exercise type, volume, progression, client motivation, goals, safety, and enjoyment are emphasized.

# SCIENCE

## PHYSICAL SCIENCE

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Credits: 1

Grade(s): 9, 10

Recommended Prerequisite: None

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Physical Science is an introduction to physics and chemistry. Physics topics include motion, forces, heat, light, states of matter, magnetism and electricity. The chemistry introduction is about classification of matter, bonding, elements, compounds and equations, mixtures, acids and bases.

\*\*Introduction to Physical Science is available as an alternative for students whose math skills may not be sufficient for a college-preparatory course level.

## BIOLOGY

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Credits: 1

Grade(s): 9, 10, 11

Recommended Prerequisite: Physical Science

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Biology as the study of life will examine the unity and diversity of life. The following topics will be covered: taxonomy, biochemistry, cell biology, genetics, animal biology, botany, microbiology and the creation/evolution controversy.

\*\*Introduction to Biology is also available as an alternative for students who may struggle with a college preparatory course.

## CHEMISTRY

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Credits: 1

Grade(s): 10, 11, 12

Recommended Prerequisite: Biology

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Chemistry sees the creation as composed of atoms, and this foundation will be developed through the following units: nature of science, classification of matter, periodic table, compounds and equations, chemical bonding, thermochemistry, the mole concept, electron arrangement and atomic structure, mixtures, kinetics and equilibrium, acids and bases, redox chemistry and organic chemistry.

## PHYSICS

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Credits: 1

Grade(s): 11, 12

Recommended Prerequisite: Chemistry

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Physics, the study of energy transformations, is the foundational science which examines the nature of science, motion and forces, momentum, work and conservation of energy,



thermodynamics, phases of matter, waves, light, electric fields and current flow, electromagnetism and nuclear transformations.

## **ANATOMY & PHYSIOLOGY**

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Credits: 1

Grade(s): 11, 12

Recommended Prerequisite: Biology

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Anatomy and Physiology is the study of the structure and function of the human body. Students will learn about the major body structures, major body systems, how the body systems work together to provide homeostasis, body functions in the healthy and diseased states, muscle action, cranial nerve functioning, and bioethics. Learning will take place through lectures, videos, laboratory experiences and text-based and online activities.

# SOCIAL SCIENCES

## WORLD HISTORY

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Credits: 1

Grade(s): 9, 10

Recommended Prerequisite: None

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World History retells the story of mankind from creation to the present. Students examine ancient civilizations from the Greeks to the Roman Empire. Then they survey India, Asia, and Africa on their way to the Middle Ages, the Renaissance, and the Reformation, upon which modern history is founded. They are challenged to discover the forces, issues, people, and movements that have shaped our modern world. God's providence and biblical integration are given prominence as the students are taught to view the world through a Christian lens.

## U.S. GOVERNMENT

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Credits: 1

Grade(s): 12

Recommended Prerequisite: None

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**Students must pass U.S. Government as a graduation requirement. Students will also take the U.S. Constitution Test, which is a state requirement for graduation.** In U.S. Government, students will learn about essential features of American government, from its historical and scriptural foundations to detailed analysis of its inner workings. The course provides an overview of changes and developments in our government with an emphasis on the U.S. Constitution, current events, state and local governments as well as Christian worldview boxes that are designed to help students think scripturally and critically about governmental issues. Government class also includes instruction on and meets State of IL requirements for civics and practical economics.

## U.S. HISTORY

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Credits: 1

Grade(s): 10, 11

Recommended Prerequisite: None

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**Students must pass U.S. History as a graduation requirement.** U.S. History is a chronological study of the major events in the history of the United States, from the culture of the Native Americans to the current presidency. The course helps students see the past through the corrective lens of a biblical worldview. It leads students to evaluate people, events, and movements from biblical teaching, giving special attention to the rise and growth of secularism. The course also leads students to propose solutions to social problems based on biblical teaching.

# SOCIAL SCIENCES ELECTIVES

## DEBATE

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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In this course, students will be given the opportunity to practice the art of debating. This course will teach students how to express and defend ideas under direct challenge. Students will develop skills in tactfulness, resourcefulness, and improvisation. This course stresses the importance of gathering real evidence, rather than expressing assumptions and opinions. Students will learn major philosophical concepts and moral theories, and will apply them to the cases they will construct and argue. This course is devoted to providing the majority of class time to live debates.

## CHURCH HISTORY

---

Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

---

In this course, students will study the preparation of the ancient world for the coming of Christianity, the founding and development of the Christian church, the history from the Apostolic Age to the Reformation, the specific importance of the Reformation era, the spread of the Protestant church, and the transplanting and growth of the church worldwide. This course will offer further observation for character studies and motivating factors.

## APOLOGETICS

---

Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

---

This course includes a survey and evaluation of various Christian approaches to apologetics and an examination of various worldviews, with an emphasis on the development of a Christian worldview. The emphasis will teach that Christianity is a cohesive worldview and not a haphazard collection of morals.

# TECHNOLOGY ELECTIVES

## DIGITAL PHOTOGRAPHY & EDITING

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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This course encourages students to capture beautiful moments in time, and aids them in viewing God's world through a different lens. The course will teach students the ever-evolving technology of photography, while also giving them experiences with both creative and technical aspects. Students will use digital cameras to capture, compose, control, and correct digital photos. Students will explore apps such as PicMonkey, SnapSeed, Flickr, and Google Photos.

## ADVANCED DIGITAL PHOTOGRAPHY & EDITING

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: Digital Photography 1

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(due to the nature of the projects this class will be limited to 10 HS students)

\*Students in this class will be charged an additional fee of approximately \$80 for software subscription fee to PicMonkey.\*

\*\*Prerequisite: Digital Photography

Students will expand their knowledge of concepts covered in Digital Photography. More creativity will be encouraged as we expand our knowledge using more advanced editing techniques. Students must have a cell phone camera.

## INTRODUCTION TO TECHNOLOGY

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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**This course may be required for freshmen or transfer students.** Introduction to Technology is a computer applications course that includes the use of the following Google products: Email, Drive, Docs, Draw, Sheets, and Slides. Students will continue to practice word-processing skills, and improve their speed and accuracy throughout the semester. This course will introduce basic coding with object-oriented programming. Students will apply technology skills to conduct research and complete core curriculum projects.

## INTERMEDIATE TECHNOLOGY

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: Introduction to Technology OR Approval of instructor

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This class builds upon proficiencies students acquired from the Introductory Technology Applications course. The Intermediate Technology Application course includes the teaching and learning of technology skills and the use of computers and other related electronic tools. In the

Technology Applications class, the students will focus on creating, accessing, manipulating, utilizing, communicating, and publishing information during the learning process. Topics and projects are subject to change from semester to semester

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## **MINECRAFT FOR EDUCATION**

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Credit: 0.5

Grade(s): 9, 10, 11, 12

Recommended Prerequisite: None

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This course will aid in preparing students for the future workplace. Throughout the course, students will build important skills such as: collaboration, communication, critical thinking, and systems thinking. The open learning environment this course provides will give students the freedom to experiment, while encouraging creative self-expression and problem solving.

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## **COMPUTER AIDED DESIGN (3d Design)**

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Credit: 0.5

Grade(s): 10, 11, 12

Recommended Prerequisite: Introduction to Technology AND approval of instructor

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Students in this course will learn to use the SketchUp software program to produce 3D models of buildings, interiors, and construction details. This course will teach students to use 3D modeling as part of the design process, and will aid them in preparing finished presentations.

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## **STEM MAKER**

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Credit: 0.5

Grade(s): 10, 11, 12

Recommended Prerequisite: None

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This course provides hands-on, problem-based learning opportunities, which introduce the principles of developing, producing, using, and assessing products related to engineering and technology. Students will also improve their skills both individually and as a class, to develop in the workplace, and to prepare them for the future. The activities in this course are focused on content related to both engineering and technology as a body of knowledge. This course will use resources and actions to: (1) apply engineering design, (2) produce artifacts and systems, (3) properly operate devices, tools, and systems, and (4) assess impacts on society and the environment. Projects will include, but are not limited to, bridge design, soldering and circuit board projects, and Lego Mindstorms. This class is limited to 10 students.