



PCHS COURSE CATALOG

2016-2017



APRIL 20, 2016

PORTLAND CHRISTIAN SCHOOL

8509 Westport Road

Louisville, KY 40242

COMMUNITY SERVICE REQUIREMENT

Students in grades 9-12 are required to earn 10 hours of community service for each year at PCS. A letter must be submitted to the school prior to May 16 from the organization stating the hours served. Hours may be earned with more than one organization. Hours will be calculated June 15-May 30 of the following year. These hours may be earned through religious or secular organizations. Hours serving your family or close family members will not count toward this requirement. No more than 1/2 of a student's service hours may be earned at school events.

Matthew 25:40

The King will reply, "I tell you the truth, whatever you did for one of the least of these brothers of mine, you did for me"

The following are some locations that students can do community service at. PCS does not endorse or promote these institutions and encourage parents to explore each location:

A Woman's Choice & Necole's Place
Choices for Women - Southern
Indiana
Girls on the Run for Louisville
Fellowship of Christian Athletes
Kosair Children's Hospital
Boy's & Girl's Club of Kentuckiana
Volunteers of America
Interfaith Community Council
Edge Outreach
Family Scholar House
Goodwill Industries
Klothe-A-Kid
Portland Promise Center
Exit 0
Habitat for Humanity
Louisville Metro Animal Services
Louisville Science Center
Louisville Zoo
Scarlet Hope

Teen's Keeping Kids Safe (TKKS)
Wayside Christian Mission
The Healing Place
Jefferson Memorial Forest
St. Joseph's Children's Home
Metro Parks
Norton Hospital
WAY-FM Radio
Christian Lake Retreat Center
Volunteers of America
Floyd Memorial Hospital
Clark Memorial Hospital
Brooklawn Children's Home

PORTLAND CHRISTIAN SCHOOL
GRADING AND GPA SCALE
7-12

*Proverbs 1:7a:
The fear of the Lord is the beginning of knowledge.*

Letter Grade	%	GPA – Regular	GPA – Honors	GPA – AP
A+	99-100	4.33	4.83	5.33
A	95-98	4.00	4.50	5.00
A-	93-94	3.66	4.16	4.66
B+	91-92	3.33	3.83	4.33
B	87-90	3.00	3.50	4.00
B-	85-86	2.66	3.16	3.66
C+	83-84	2.33	2.83	3.33
C	79-82	2.00	2.50	3.00
C-	77-78	1.66	2.16	2.66
D+	75-76	1.33	1.83	2.33
D	72-74	1.00	1.50	2.00
D-	70-71	0.66	1.16	1.66
F1-F5	69-0	0	0	0

Honors and AP Courses:

Students that are enrolled in Honors and AP courses will be expected to do more class work and more independent work. These courses use the same grading scale as regular courses; however they do get a bonus in their GPA. For example, a student that gets a "B" in an AP course will be given GPA credit for an "A". This is done so that students are not penalized for taking more challenging courses.

Please see the AP and Honors Course section for more information about these classes.

PORTLAND CHRISTIAN SCHOOL
REQUIREMENTS FOR GRADUATION

<u>SUBJECT</u>	<u>Minimum Credits required</u>	<u>Pre-College Curriculum Credits Required</u>	<u>COURSES</u>
Bible	4 or one for each year at PCS	4 or one for each year at PCS	Bible 9 Bible 10 Bible 11 Bible 12
English	4	4	English I, II, III, IV or AP English
Social Studies	4	4	Government/Geography World History U. S. History Worldview Analysis
Mathematics*	3	3	Algebra I Geometry Algebra II Senior Math (or higher level)
Science	3	3	Earth Science Biology Chemistry
Health	.5	.5	Health
Physical Education	.5	.5	PE
Visual and Performing Arts	1	1	General Art I or II General Music Choir Drama Stage-crafting Specialized or Independent Study Art Photography
Foreign Language	0	2 (of the same language)	French I, II and III Spanish I, II and III
Total Credits	24	26	(Including electives)

*Students must take one math course for each year in high school.

PORTLAND CHRISTIAN SCHOOL **DIPLOMAS**

Colossians 3:17

And whatever you do, whether in word or deed, do it all in the name of the Lord Jesus, giving thanks to God the Father through him.

The following diplomas will be given at graduation:

High Honor Diploma – Any graduate who has:

- Completed 26 credits (including minimum required credits)
- Completed the Pre-College Curriculum
- Completed 4 higher-level courses (these courses are marked in the course catalog)
- Earned a cumulative GPA of 3.0 or higher

Honor Diploma – Any graduate who has:

- Completed 26 credits (including the minimum required credits)
- Completed the Pre-College Curriculum
- Earned a cumulative GPA of 2.6 or higher

Standard Diploma – Any graduate who has:

- Completed 24 credits including Bible for each year at PCS

Each student must have a minimum of 24 credits to graduate from PCS.

KENTUCKY EDUCATIONAL EXCELLENCE SCHOLARSHIP
(KEES)

KEES is a program established to help Kentucky high school students earn money for college. The better a student does in school the more money a student can earn. The money is awarded based on grades C+ or better and the highest ACT earned. The money earned will accumulate throughout a student's high school career and is awarded when the student graduates from high school. The money can be used at any Kentucky college, university or technical schools. You may not use KEES money at out of state schools unless the school participates in the Academic Common Market program. Please see your guidance counselor for more information. This scholarship is for Kentucky residents. The chart below will show your earning potential compared to GPA and ACT scores.

GPA	Amount Earned	ACT Score	Amount Earned
2.50	\$125	15	\$36
2.60	\$150	16	\$71
2.70	\$175	17	\$107
2.75	\$187	18	\$143
2.80	\$200	19	\$179
2.90	\$225	20	\$214
3.00	\$250	21	\$250
3.10	\$275	22	\$286
3.20	\$300	23	\$321
3.25	\$312	24	\$357
3.30	\$325	25	\$393
3.40	\$350	26	\$428
3.50	\$375	27	\$464
3.60	\$400	28+	\$500
3.70	\$425		
3.75	\$437		
3.80	\$450		
3.90	\$475		
4.00	\$500		

KENTUCKY EDUCATIONAL EXCELLENCE SCHOLARSHIP

Con't
(KEES)

AP Supplement Award Amounts

If you have been eligible for free or reduced-price lunch during any year of high school and have earned a qualifying score on an Advanced Placement (AP) exam taken during or after the 2008-2009 academic year, you can earn a supplemental award. For example, a KEES eligible student who receives a score of 3 on an AP exam and is eligible for free or reduced-price lunch would earn an additional \$200 for each year of college.

Advanced Placement

Exam Score	Supplemental Amount
3	\$200
4	\$250
5	\$300

AP COURSES

AP courses are taught by highly qualified high school teachers who use the *AP Course Descriptions* to guide them. The course description for each discipline outlines the course content, describes the curricular goals of the subject, and provides sample examination questions. While the course descriptions are a significant source of information about the course content on which the AP test will be based, AP teachers have the flexibility to determine how this content is presented.

The College Board approves the syllabus for each AP course and outlines the material to be covered so that students can be successful on the AP test at the end of the school year. Students that take the AP test will be given a score 1-5.

Colleges decide individually how many college credits to award for each score. Typically a 1 or 2 will not earn college credit. A 3 will usually earn 3 credits and a 4-5 could earn more than 3 credit hours. It is important to note that some colleges and universities do not accept AP scores. It is important to investigate the colleges and/or universities that you might be interested in for their policies.

The AP test will be given on specific dates (set by the college board) at PCS. The cost of each test is \$92. AP courses are one method of earning college credit by students while still in high school.

PCS currently offers the following AP courses:

ON-LINE

AP Art History
AP Biology
AP Calculus
AP English Language and Composition
AP Us Government and Politics*
AP World History
AP Art History
AP English Language and Composition
AP World History

IN HOUSE

AP English Literature and Composition
AP U.S. History
AP Human Geography
AP Psychology
AP Art

HONORS COURSES

Honors courses offered at PCS are a step above and beyond regular courses, in that, they require additional readings, class work and independent work, however there will not be a test at the end of the year to earn college credit.

The Following Courses are the Honors Courses offered at PCS:

- Honors English 9
- Honors English 10
- Honors English 11
- Honors Government
- Honors Geography
- Honors World History
- Honors Chemistry

NEW COURSE OPPORTUNITIES

PCS is working hard to open up more offerings to our students each year. Below you will find new course offerings for the 2016-2017 school year. Some of these courses are on-line and some will be in house with a PCS teacher.

ON-LINE COURSES

PCS has the great opportunity to partner with Seven-Star Academy for online courses. Sevenstar Academy is an accredited Christian school for middle and high school students. Sevenstar partners with schools and families worldwide in delivering high quality Christian education. Their staff desires to glorify Christ, teach students how to process information, and think critically in the context of a Biblical worldview. Courses are rigorous and exceed all national standards and recommendations. Students receive a well-rounded and personalized educational experience, becoming independent thinkers well prepared for college and beyond.

Students may list any of the courses below on their Course Planning Sheet. Course descriptions will be listed in the PCS catalog.

AP COURSES ON-LINE

The following courses may be taken at PCS through an online program (student must meet the class requirements or pre-requisites) at NO EXTRA COST.

For Seniors:

AP Art History
AP Biology
AP Calculus
AP English Language and Composition
AP US Government and Politics
AP World History

For Juniors:

AP Art History
AP English Language and Composition
AP World History

DUAL CREDIT

Dual credit is the opportunity for students to earn high school credit AND college credit through the same course. PCS will be partnering to offer Dual Credit through the following participating school: Boyce College, Cedarville University, Davis College, God's Bible School and College, Grand Canyon University, Indiana Wesleyan University, The King's College, and Taylor University. The usual cost of a dual credit course is \$644 per credit hour. The credit hour for each course will vary by institution and course, however, a typical course is 3 credit hours. Students and parents need to understand that college credit transfer will be determined by the college or university that the student plans to attend after high school. There are some specific requirements for students to take dual credit courses.

Please fill out the dual credit form and turn it in with your planning sheet if you are interested in dual credit. Mrs. Haynes will be in touch with you before the end of the school year to discuss your options further.

ON-LINE ELECTIVES FOR GRADES 9-12 (NO EXTRA COST)

Game Design

1/2 CREDIT

How can computer games advance the Kingdom of God? This course will introduce students to the basic skills necessary for game design and the biblical principles every gamer should know about designing and using computer games. They will study the various games in the industry and analyze their approach in terms design and development. The student will explore the processes and art of making game elements like story, levels, sound, user interfaces, and levels. This analysis will include an orientation to the gaming market and innovative techniques' impact on it. Finally, the student will merge all these elements into a functional prototype showing their understanding of the game design process.

Chinese I

1 CREDIT

Learn to speak a language that doesn't have an alphabet! This is a beginning level course that will introduce the student to a variety of areas of Mandarin Chinese (Simplified). In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on proven methods of foreign language instruction. Throughout the five units of material (Introduction to Chinese, Greetings, Calendar, Weather, and Time), students learn to express themselves using an ever increasing vocabulary as they explore the mandate to love their neighbor as they love themselves. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories and the need of the gospel. The course is aligned to the national Foreign Language standards.

Latin I

1 CREDIT

There is a reason "all roads lead to Rome." Maybe it is because the Romans built much of the ancient world's highway system. Maybe it is also because the Roman culture and Latin language laid the foundation for much of Western culture. In this course, students find out for themselves about the cultural context in which early Christianity grew and flourished. Studying Latin helps students improve their command of the English language. Latin I is the most comprehensive way to begin. The purpose of this course is to give students a foundation in Latin grammar and vocabulary. This course also acquaints students with Olympic gods and with the everyday life of the typical Roman. Students will recognize how a foundation of truth is reflected in our words, actions, and art. The course sets the students' feet on a journey as big as their imagination, with a passport to some of the world's most exciting places.

Prerequisites: None

Recommended Grade Levels: 9th - 12th

ACT Prep

1/2 CREDIT

Practice, lots of practice, is the key to doing well on the ACT. This ACT Prep course allows the student to prepare for the upcoming ACT exam in an interactive and interesting way. Students are able to review essential content, assess their own knowledge, measure their learning, play interactive drill games, and review flash cards in this online environment. As the student progresses, they will have opportunities to explore learning from a biblical perspective, discuss the content, share study tips, and ask questions of their classmates and teacher in the bi-weekly discussion forums. All of their work, self-assessments, and drill-and-practice work is tracked for them and organized for easy review according to both the level of mastery they have achieved and their own comfort level with the content. In addition to following the prepared study plan, students can access any of the content they have already studied for additional review. Need a study break? A variety of games are available in order to review the content in even more entertaining ways. This course offers the most current, interactive, and organized opportunity for any student to practice and prepare for the ACT.

Prerequisites: None

NEW AP COURSE IN HOUSE AT PCS

There is no charge to take the class, but there is a fee to take the AP test at the end of the year to possibly earn college credit. The cost of the AP test is \$92/per test.

AP Human Geography

Grades: 9-12

The AP Human Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.

AP Psychology

Grades: 11-12

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas.

AP Art

Grades: 11-12

The AP Program offers three studio art courses and portfolios: Two-Dimensional Design, Three-Dimensional Design, and Drawing. The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. Students submit portfolios for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios – 2-D Design, 3-D Design and Drawing – corresponding to the most common college foundation courses. Students may choose to submit any or all of the Drawing, Two-Dimensional Design, or Three-Dimensional design portfolios. AP Studio Art students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, and applied over the course of the year to produce visual compositions.

POSSIBLE NEW ELECTIVES IN HOUSE AT PCS

Film-Making

Robotics for High School

Honors Junior English

Honors Freshman English

Criminal Justice (offered this year, not in catalog)

Forensics (offered this year, not in catalog)

PCHS COURSE CATALOG

BIBLE

Bible 9 - Old Testament Survey

Required: 9

Credit – 1

Prerequisite: None

Bible 9 is the study of Jewish history starting at creation, continuing through the age of the patriarchs into the time of judges. Emphasis is placed on the culture, the holidays, origins of various ethnic groups and varieties of writings found in the Old Testament.

Bible 10 - Gospel of John

Required: 10

Credit – 1

Prerequisite: None

Bible 10 is the study of the life of Christ from the book of John.

Bible 11 - Acts, Romans, Ephesians

Required: 11

Credit – 1

Prerequisite: None

Bible 11 is the study of the Holy Spirit's work in establishing the early church, focusing on the writings of Luke and Paul.

Bible 12 - Daniel and Revelation

Required: 12

Credit – 1

Prerequisite: None

Bible 12 is an overview of world history—past, present and future from a biblical perspective.

Spiritual Leadership

Elective: 11 or 12

Credit – 1

Prerequisite: None

Topics that are designed to encourage and enhance a deeper Christian faith and walk will be discussed. Students will explore and develop the Holy Spirit in leading those around them.

Business and Technology

Accounting

Elective: 10, 11, 12

Credit - 1

Prerequisite: Must have a C average in Algebra I

Designed to provide the student with an understanding of the language of business and the need for orderly, accurate financial records in business and personal life. Successful completion of this course lays the groundwork for a career in accounting.

Computer I

Required: 9

Credit - .5

Prerequisite: None

This course will be an in depth review of Microsoft Word and Excel. The skills learned in this class will prepare the student for most courses and jobs that require a basic to intermediate knowledge of Microsoft Word and a basic knowledge of Excel.

Computer II

Elective: 10-12

Credit - .5 or 1

Prerequisite: Computer I or departmental approval

This course will cover advanced topics in Microsoft Excel and introduce the student to database management using Microsoft Access.

Computer Programming

Elective: 11, 12

Credit - .5 or 1

Prerequisite: Computer I and II or departmental approval

Students will study computer history, data processing and the programming process, options in software and hardware, career opportunities, computer care and introduction to programming in Visual Basic.

Business Dynamics

Elective: 11, 12

Credit: 1

Prerequisite: None

Designed to improve citizenship through the study of business and economic environment. We seek to develop the student, from a Christian viewpoint, to be:

1. Competent in managing personal financial affairs: banking, insurance saving and investments.
2. Skillful in selecting and using the goods and services that are available for business, industry and government.
3. Aware of the world of work and concerned about career opportunities, career preparation, and job success and satisfaction.
4. Sensitive to the role Christians should play in the furthering the Gospel of Christ, especially financially

Web Page Design

Elective: 11, 12

Credit - .5

Prerequisite: None

This course is for designing web pages and a technological helping hand for the teacher. The students will also learn e-mail, search engines, web research, netiquette and copyright laws.

English

English 9

Required: 9

Credit – 1

Prerequisite: None

Grammar and Composition – Emphasizes language basics such as parts of speech, writing mechanics, verb conjugation, and correct usage through workbook drills and composition. Students will apply these skills by practicing paragraph development, essay answers, book reports, poems, journal responses, autobiography, and a short research paper. Vocabulary is stressed weekly.

Themes of Literature – Figurative language and literary devices are studied to prepare for a better understanding of literature. A Shakespeare play, book reviews, classical myths, and literature text units are studied.

English 10

Required: 10

Credit – 1

Prerequisite: None

Grammar and Composition – Is a continuation of writing skills improvement through workbook drills, writing essays, poetry, and short stories. Beginning public speaking activities culminate in a point-counterpoint speech. Vocabulary is stressed weekly. Students will also do a research project on career choices.

World Literature – Further development of ability to interpret content and to identify literary techniques within the world classics of British, American, French and German literature. Textbook units are also studied. Book tests on 4 independently read classics are required.

English 11

Required: 11

Credit – 1

Prerequisite: None

Grammar and Composition – Review of basics, but extends to develop personal writing style, focusing on sentence variety, clarity, unity, parallelism and verbals. Demonstration speeches are required. Vocabulary enrichment continues. Major writing assignments include essays, character sketches, short stories or poetry. Writing assignments culminate in research on an American author and thesis paper, complete with endnotes and bibliography.

American Literature – A sampler of American literature focusing on several periods from Colonial Era till today and emphasizes the contrast between Biblical

foundation of early American lit and world influences of transcendentalism, naturalism, realism, and social problems. American classics and poetry and book reviews over independently read classics are required.

English 12

Required: 12

Credit – 1

Prerequisite: None

Grammar and Composition – Polishing grammatical skills through workbook practice. There will be an emphasis on structure, diction, usage and style. An emphasis on public speaking will culminate in a debate. Practical writing assignments such as resume and report writing, as well as essays and creative writing are required.

British Literature – A chronological survey of British literature focusing on authors and historical backgrounds, language development, and sample works from the major literary periods. Book talks and reviews over independent novels are required.

There is a final research paper that will be completed in collaboration with Worldview Analysis (or Honors Worldview Analysis) and must be turned in **on time** to be a candidate for graduation.

AP English*

Elective: 12

Credit – 1

Prerequisite: B average in English 11 and teacher approval. Class size will be limited.

This AP course is a college level course that is taken in high school. College credit can be earned by taking the AP test at the end of the school year. College credit is based on the score and the requirements of the college or university of your choice. Topics that are covered include:

Composition and Speech – This class is designed for those who have mastered basic writing skills. This course will focus on style development, a variety of writing assignments and is designed to develop necessary college writing and speaking skills. Work culminates in a formal debate and final term paper. Vocabulary development continues.

British Literature – A class designed for students preparing to tackle the mounds of college reading assignments. Students will cover more literature in more depth from the Anglo-Saxon to modern period of literature. Development of the English language is featured. Independent reading is also required. Students will prepare for AP testing in the spring. Two Saturday preparation days may be necessary before testing.

There is a final research paper that will be completed in collaboration with Worldview Analysis (or Honors Worldview Analysis) and must be turned in **on time** to be a candidate for graduation.

Journalism

Elective: 10, 11, 12

Credit – .5

Prerequisite: B average in the last English class taken

Journalism will focus on the process for producing a yearbook and school newspaper. The yearbook portion will identify, practice, and master the skills necessary in conceptualizing, reporting and writing copy, planning photography, designing and preparing the school yearbook. The newspaper portion will develop writing news stories, editorial, sports and feature writing.

Students will produce a k-12 school yearbook, the *Totem* and a few issues of the school newspaper the, *Broadcaster*.

Days after graduation will be required to complete the yearbook and attendance will affect final grade.

Film as Literature

Elective: 11-12

Credit – .5

Prerequisite: None

This course is the study of films (mostly classics) and comparing them to the literary process and components.

Foreign Language

French I

Elective: 9, 10, 11

Credit – 1

Prerequisite: 10th graders must have a B average in English 9; 11th graders must have a C average in English 10.

An introduction to the French language and culture with an emphasis on all four skills: listening and comprehension, speaking, reading, and writing. Students will have an opportunity to experience French culture through singing, sampling French cuisine, and studying various customs.

Spanish I

Elective: 9, 10, 11

Credit – 1

Prerequisite: 10th graders must have a B average in English 9; 11th graders must have a C average in English 10.

An introduction to the Spanish language and culture with an emphasis on communication and usage by involving students in fun yet challenging activities using the 4 modalities of listening, comprehension, speaking, reading and writing. Students will have an opportunity to experience Spanish culture and practice their language skills through a variety of activities such as singing, sampling Spanish cuisine, and field trips.

French II

Elective: 11, 12

Credit – 1

Prerequisite: C or better in French I

French II is a continuation of French I grammar and culture.

Spanish II

Elective: 11, 12

Credit – 1

Prerequisite: C or better in Spanish I

Spanish II is a continuation of Spanish I grammar and culture.

French III*

Elective: 12

Credit – 1

Prerequisite: C or better in French II

French III is a continuation of French II grammar and culture.

Spanish III*

Elective: 12

Credit – 1

Prerequisite: C or better in Spanish II

Spanish III is a continuation of Spanish II grammar and culture.

Greek

Elective: 10-12

Credit – .5

Prerequisite: None

Greek will acquaint the student with the language of the New Testament. This course will not meet the foreign language requirement for the pre-college curriculum.

Health and Physical Education

Physical Education

Required: 9

Credit – .5

Prerequisite: None

This course is designed to learn basic skills for a variety of team sports as well as personal fitness activities.

Health

Required: 9

Credit – .5

Prerequisite: None

A study of the basic structure and function of the body its systems as well as nutrition, personal hygiene, mental and social problems, alcohol and other drug abuse, first aid and safety.

Family Science

Home Economics

Elective: 11, 12

Credit – .5

Prerequisite: None

This course is designed for students to learn the basic skills in food production including laboratory experiences and some basic sewing techniques.

Basic Home Repair

Elective: 11, 12

Credit – .5

Prerequisite: None

Introductory work consists of learning the names and proper uses of common tools. This is followed by several class periods doing bookwork and participating in various demonstration/participation labs. Areas covered are basic carpentry, electricity, plumbing and dry wall. The major project of the semester is to build a four-foot square typical wall section, complete with plumbing and electricity. Secondary projects, as time permits, are auto maintenance, furniture refinishing and bookcase building.

Family Life

Elective: 11, 12

Credit – .5 or 1

Prerequisite: None

This course covers a broad range of personal relationships within the family, values, parenthood, etiquette, housing and interior design, record keeping, use of credit, taxes, etc.

Mathematics

Algebra I

Required: 9

Elective: 8

Credit – 1

Prerequisite: None

Includes a study of the real number system; properties of numbers; solving equations and inequalities; formulas; positive and negative number; word problems; operations with polynomials; equations containing parentheses and equations containing fractions; the Cartesian Coordinate System; linear equations and their graphs; linear inequalities and their graphs; and systems of linear equations.

Geometry

Required: 10

Elective: 9

Credit – 1

Prerequisite: Algebra I

Includes a study of sets of points in one, two, and three dimensions; direct proofs and indirect proofs; logic; theorems pertaining to parallelism and triangles; properties of polygons; a study of the concepts of proportionality related to similar polygons; the properties of circles and spheres; constructions; the concept of loci; and formulas for areas of polygonal regions and formulas for volume. Elements of trigonometry, inequalities, and coordinate geometry will be studied as time permits.

Algebra II

Required: 11

Elective: 10

Credit – 1

Prerequisite: Algebra I

An extension of previous experience with real number system, solutions of linear and quadratic equations, systems of equations, inequalities, graphing polynomials and factoring, exponents, radicals, imaginary numbers, and rational expressions, equations and functions.

Advanced Math

Elective: 11, 12

Credit: 1

Prerequisite: Geometry, a B or better in Algebra II or departmental approval.

Students will study the six fundamental functions, radian measure, vectors, graphing, functions, inverse relations, complex numbers, polynomial functions and probability.

Calculus*

Elective: 12

Credit – 1

Prerequisite: Advanced Math

Students will review relations and functions, limits, continuity, differentiability, derivatives, definite integrals, indefinite integration, partial differentiation, and application of differentiation and integrations. Multiple integrals will be covered as time permits.

Senior Math

Elective: 12 (Required if not taking Advanced Math or Calculus)

Credit: 1

Prerequisite: Algebra I, Algebra II, and Geometry

Students will continue to expand their knowledge of Algebra and Geometry while studying College Algebra, ACT testing strategies and Dave Ramsey's Financial Peace for high school students.

Science

Physical Science

Required: 9

Credit – 1

Prerequisite: None

Physical Science is the study of the earth as God's "very good" creation. Included are geology, astronomy, oceanography, meteorology, and mineralogy.

Biology I

Required: 10

Credit – 1

Prerequisite: None

This course will introduce students to the fundamentals of biology. The course includes a study of cells, the structure and function, biochemistry, heredity, genetics, microorganisms, multi-cellular plants, invertebrates and vertebrates. Considerable time is spent in comparing evolution and creation. Various labs are performed. All biology students are required to participate in the school science fair.

Chemistry

Required: 11

Credit – 1

Prerequisite: None

This course is an introduction to the fundamentals of chemistry with an emphasis on God's perfect design. The course includes a study of matter, atomic structure, periodic law, formulas, equations, mole concept, gas laws, solutions, acids, bases, salts, equilibrium, reaction energy, kinetics, and a brief overview of organic chemistry. The student will develop safe lab techniques in experimental work related to the course content.

Honors Chemistry

Elective: 11

Credit – 1

Prerequisite: B average in student's previous math course

This course will include a deeper study of Chemistry and will require more reading and independent work.

Biology II

Elective: 12

Credit – 1

Prerequisite: B average in Biology I

This course is a continuation of Biology I with more in-depth study. Various labs will be performed.

Chemistry II*

Elective: 12

Credit – 1

Prerequisite: C+ average in Chemistry I

Chemistry II offers students advanced level and experiences in concepts involving chemical changes of matter. Laboratory activities and investigations are presented in the spirit of inquiry and research.

Anatomy and Physiology*

Elective: 12

Credit – 1

Prerequisite: Departmental approval.

This is a course in human anatomy and physiology for those entering the medical profession or for those students who just want a better understanding of the human body. The student will perform lab work related to course content.

Physics*

Elective: 12

Credit – 1

Prerequisite: B- average in Algebra II or departmental approval. Student must also have earned a credit or be in the process of completing a credit in Trigonometry.

Physics is the science of energy. It includes the study of motion, heat, work, waves (sound, light, and et. al.), electricity, magnetism and atomic energy. Class work consists of theory and problem solving. Lab work includes various physics experiments and measurement techniques.

Social Science

Government

Required: 9

Credit – .5

Prerequisite: None

This class is a study of the foundations of American government and how it works at the federal, state, and local levels. It will also explore comparative economic and political systems.

World Geography

Required: 9

Credit – .5

Prerequisite: None

This class is a cultural and physical geographic study of world regions with an emphasis on map reading.

World History

Required: 10

Credit – 1

Prerequisite: None

This course is a survey of the history of the world with an emphasis on the various cultures. Units include Asia and the Middle East with a comparative study of Eastern religions; the middle Ages; the Renaissance; the emergence of the modern nations, Russia and Communism. Students will be asked to consider these various cultures and religions critically from the standpoint of their Christian beliefs. Geography skills are reinforced throughout the units.

American History

Required: 11

Credit – 1

Prerequisite: None

This course traces the history of our nation from Reconstruction to the present. Emphasis will be placed on evidence of God's hand and purposes revealed in historical events.

AP American History*

Elective: 11

Credit – 1

Prerequisite: B average in English 10 and teacher approval.

This AP course is a college level course that is taken in high school. College credit can be earned by taking the AP test at the end of the school year. College credit is based on the score and the requirements of the college or university of your choice.

Advanced Placement U. S. History traces the political institutions, social and cultural developments, diplomacy, and economic trends of the United States from the Pre-Columbian Era to the present day. According to the College Board, the organization that administers the program, it is "equivalent to an introductory college course in U. S. history." As such, emphasis will be on teaching students "the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U. S. history."

The class will include reading the text and other resources and practice in effective writing techniques. Besides acquiring skills useful for their future educational endeavors, the students will also prepare to take the AP Exam in the spring. Due to the level of content covered regular attendance is a must.

Sociology

Elective: 10, 11, 12

Credit – 1

Prerequisite: None

This class will study human societies with a Christian emphasis. Some topics will include: culture, methods of research, socialization, the life course, deviance and crime, race and ethnicity and family.

Psychology

Elective: 11, 12

Credit – 1

Prerequisite: None

This class will study mental health and the development of well being with a Christian emphasis. Some topics will include: the developing person, learning, emotions, personality, psychological disorders and social psychology.

Worldview Analysis

Required: 12

Credit – 1

Prerequisite: None

Worldview Analysis is a life-changing Christian worldview leadership curriculum that is produced by Summit Ministries. The course arms students with a solid foundation for their beliefs, and prepares students for the Secular Humanist, Marxist and New Age ideas they will be exposed to in colleges, universities, and the business world and through the media. There is a final research paper that will be completed in collaboration with English 12 (or AP English 12) and must be turned in **on time** to be a candidate for graduation.

Honors Worldview Analysis

Elective: 12

Credit – 1

Prerequisite: B- average in English 11 and teacher approval

Honors Worldview Analysis is a life-changing Christian worldview leadership curriculum that is produced by Summit Ministries. The course arms students with a solid foundation for their beliefs, and prepares students for the Secular Humanist, Marxist and New Age ideas they will be exposed to in colleges, universities, and the business world and through the media. This course will include more in-depth readings and discussions. Application through unit projects will also be included. There is a final research paper that will be completed in collaboration with English 12 (or AP English 12) and must be turned in **on time** to be a candidate for graduation.

Visual and Performing Arts

General Art I

Elective: 9-12

Credit – .5

Prerequisite: None

This course provides instruction in the basic arts areas with emphasis on design, drawing, painting, and sculpture. Additional experiences may be included. Visual art careers, art history, appreciation, evaluation and aesthetics will be incorporated in the studio instruction.

General Art II

Elective: 10-12

Credit – .5

Prerequisite: General Art I

General Art II is a continuation of study from General Art I.

General Music

Elective: 9-12

Credit – .5

Prerequisite: None

General Music studies varies music genres and music history.

Choir

Elective: 9-12

Credit – .5

Prerequisite: Audition and teacher approval. Class size will be limited.

Includes development of choral techniques through singing choral literature written for mixed voices and the development of basic tone production and choral techniques through singing three and four part choral literature. The course contributes to the development of the musicianship of the student through the use of supplementary materials related to general music education. The choice of music and instruction places a heavy emphasis on the use of music to bring glory to God and to propagate the message of the Gospel of Jesus Christ. Since this course is an elective, all performances are **MANDATORY**. Students should plan on several Sunday and Wednesday night performances. Efforts will be made to take a choir trip every three years during spring break with two or three day tours during the intervening years.

Enrollment in this class will require students to participate in an audition. Grades will be based on attendance to each performance and classroom participation.

Drama

Elective: 11, 12

Credit – .5

Prerequisite: C+ in English and teacher approval.

This is a two semester course designed to introduce students to the basic techniques of effective oral delivery with emphasis on diction, projection, and oral interpretation. Students will work toward the goal of presenting 2 plays and a chapel lesson during the year. Mandatory after school practices begin a month prior to a production. The week of production may require late nights. Enrollment requires instructor's approval. Class size will be limited.

Photography

Elective: 11, 12

Credit – .5

Prerequisite: None

Specialized Art I

Elective: 11, 12

Credit – .5

Prerequisite: General Art I & II or departmental approval

This class provides in-depth instruction in a combination of at least three areas selected from design, drawing, painting, printmaking sculpture, ceramics, textile design, and photography.

Stage Crafting

Elective: 11, 12

Credit – .5

Prerequisite: None

This class teaches the basics of set design and construction. The majority of class time is spent on building sets and props for the school year productions. Some stagehand work and time after school on some productions may be required. Class size will be limited.

Art-Independent Study*

Elective: 11, 12

Credit – 1 or .5

Prerequisite: General Art I and departmental approval.

This class provides in-depth supervised studio art to students with recognized talent in an art area.