



Cultivating strong minds and a passionate faith

High School Program & Course Description Guide

Mount Airy Christian Academy

16700 Old Frederick Road, Mount Airy, MD 21771

Office: 410.489.4321 Fax: 410.489.4492 www.macamd.org

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Mount Airy Christian Academy High School

Diploma Programs

Mount Airy Christian Academy desires for every high school student to develop to their fullest potential academically. We encourage students to look beyond the minimum requirements for graduation and prepare for college or advanced education. One way we do this is to offer three diploma programs: General, College Preparatory, and Advanced College Preparatory.

Three Types of Diplomas

General Diploma

To receive the General Diploma:

- minimum of 26 total credits including Algebra I and Chemistry
- minimum 80 Service Learning hours
- complete a week-long internship in the junior and senior years
- minimum of 2.0 GPA

College Preparatory Diploma

To receive the College Preparatory Diploma:

- minimum of 27 credits including Algebra II and Chemistry
- minimum 100 Service Learning hours
- complete a week-long internship in the junior and senior years
- minimum of 2.75 GPA

Advanced College Preparatory Diploma

To receive the Advanced College Preparatory Diploma:

- minimum of 28 credits including Pre-Calculus and Chemistry
- minimum 120 Service Learning hours
- complete a week-long internship in the junior and senior years
- minimum of 3.50 GPA

Cumulative Diploma Honors – Recognized at Graduation

cum laude = 3.5 GPA*

magna cum laude = 3.7 GPA*

summa cum laude = 3.9 GPA*

*Based on a weighted grading scale, not rounded (ex: 85-88 = B; 89-91 = B+; 92-94 = A-; 95-100 = A)

MACA General Diploma – Requirements for Graduation

<u>COURSES</u>	<u>CREDITS</u>	<u>REQUIRED COURSES</u>
Bible	4	(Hermeneutics & Christology)
English	4	
Social Studies	3	(World History, US History, American Government)
Math	4	(Algebra I, Geometry) 1 credit each year
Science	3	(Biology + at least one other lab science)
Foreign Language	2	
Physical Education	1	(Achievable through MACA sports)
Health	½	
Technology Education	1	(Computer Science I)
Fine Arts	1	
Communication	½	
Electives	2	(can be additional core courses)
TOTAL	Minimum of 26 credits required for graduation	

Students must earn a minimum of 26 credits, participate in the MACA internship in their junior and senior years, earn a minimum of 80 Service Learning hours, graduate with at least a 2.0 overall GPA and successfully complete their Senior Bible Thesis Presentation to be awarded a General Diploma.

These requirements meet or exceed the standards established by the Maryland State Department of Education.

Mount Airy Christian Academy High School Course Prerequisites & Recommended Course of Study

Course Prerequisites

Some of the courses within the curriculum require that students successfully complete the preceding course with at least a "C" average. This is to assure success in the next level of learning. Therefore, to enter the next level course, a student must have a "C" final average grade or receive approval from the advanced course teacher.

<u>Advanced Course</u>	<u>Prerequisite Course(s)</u>
Computer II	Computer I
Web Design and Development	Computer I and Teacher Approval
IT Assistant	Computer I <u>and</u> Teacher Approval
Spanish IV	Spanish III
Spanish III	Spanish II
Spanish II	Spanish I
Algebra I	Pre-Algebra
Geometry, Algebra II	Algebra I
Pre-Calculus	Algebra II
Calculus	Pre-Calculus
Physics - H	Algebra I & II; enrolled in Pre-Calculus and/or teacher approval (85 or higher)
Anatomy & Physiology -	Biology (85 or higher)
Chemistry	Biology, Algebra I; enrolled in Algebra II
Biology	Integrated Physics & Chemistry or teacher approval (if enrolled in Algebra I)

Recommended Course of Study

Ninth Grade

Old Testament Survey
Classic Lit, Grammar & Composition
Introduction to Algebra I/Algebra I/Geometry
World History
Computer I/Spanish I
Integrated P & C or Biology* (teacher recommendation)
Elective

Tenth Grade

New Testament Survey
Literary Genres & Composition
US History
Algebra I/Geometry/Algebra II
Biology/Chemistry
Spanish I/II or Computer I/II
Electives

Eleventh Grade

Comparitive Religions
American Lit & Composition
American Government
Geometry/Algebra II/Pre-Calculus/SAT Prep/
Pre -Calc
Chemistry/Anatomy & Physiology - H
Computer I/II or Spanish I/II/III
Electives

Twelfth Grade

Hermeneutics & Christology
British Lit & Composition
Algebra II /Pre-Calculus/Calculus/Consumer Math
/Statistics
Fine Arts
Chemistry/Anatomy & Physiology - H/Physics - H
Electives
Electives

Sample 9

OT Survey
Class Lit, Gram & Comp
Algebra I/Geom.
World History
Computer I
Integrated P & C/Biology
Study Hall

Sample 10

NT Survey
Lit Genres & Comp
US History
Geometry/Algebra II
Biology/Chem.
Spanish I
Elective

Sample 11

Comparative Religions
Amer. Lit & Comp
American Gov't
Algebra II/SAT Prep /Pre-Calc

Chemistry/Physics - H
Spanish II
Elective

Sample 12

Herm & Christology
Brit Lit & Comp
Pre-Calc/Calc/Stats/Cons Ma

Fine Arts
Anat & Phys - H
Computer II/Span III
Elective

HONORS/ACCELERATED PROGRAM

In an effort to encourage our students to take demanding advanced academic work and to provide them with coursework that enables them to be more competitive in their future academic pursuits, Mt. Airy Christian Academy offers honor courses for grades 9-12 and accelerated courses in English and Math for grades 6-8. The grading standard for honors is very rigid. Students taking honors courses are expected to spend considerably more time in preparation outside of class. Honors courses are weighted higher than regular classes in regards to G.P.A. On an honors scale, an A is = 5 points, B = 4 points, C = 3 points, D = 2 points and F=0 points.

College Level Education Opportunities

MACA's *Next Step* Program

MACA's *Next Step* Program offers college-level courses taken on the MACA campus during a student's senior year. *Next Step* courses are taught by qualified Christian instructors approved as adjunct professors by Lancaster Bible College (LBC). These courses count toward high school requirements while also providing college credit through LBC. These credits may be transferred to other colleges and universities according to each college's transfer process. Students eligible to enroll in these courses must be MACA seniors with a GPA of 2.50 or higher on a 4.00 scale.

Current Course Offered Through the MACA *Next Step* Program include:

LAN 101 – English Composition

LAN 104 – Public Speaking

HIS 201 – U.S. History (1600-1877)

BIB 103 – Creation & Covenants: OT I

BIB 104 - Israel's Life & Literature: OT II

BIB 105 – Biblical Hermeneutics

Off Campus/Dual Enrollment College Credit

- Twelfth grade students will be given the opportunity to take dual credit courses through other approved institutions.
- To be eligible for this, students must maintain a 3.0 GPA at MACA.
- They must be on MACA campus for at least five classes a day, and must attend chapel weekly.
- Students will be eligible to play sports at MACA as long as they meet the above requirements, and they must be present for seven classes per day to be eligible for a student government or class officer position.
- The off campus classes must be from an accredited college and must be approved by the Academic Dean.
- College classes cannot hinder a student from going on events like the retreat.
- College credits must be for classes that are not offered at MACA, unless special permission is received from the Academic Dean.
- Dual credits will show on MACA transcripts as transfer credits.
- Students taking dual credits must maintain a 3.0 GPA.

Off Campus Work Release

- Twelfth grade students will be given the opportunity to work off campus.
- They must have enough credits to graduate.
- Students must apply for work release and be approved by the Academic Dean.
- Student work activity will be monitored. A student should not leave campus early unless it is for his or her job (or for dual credits as described above).
- Students must be present for at least five classes per day, and must attend weekly chapel.
- Students may not use work as an excuse to miss events such as the retreat.
- Work release students can participate in sports, but must be in school for at least five classes per day.
- Students must maintain a 3.0 GPA.

Mount Airy Christian Academy

High School Course Description Guide

In order to provide the best educational materials possible, MACA's administration and staff review the curriculum constantly. As a result, all materials are subject to change.

Bible Department

Bible Basics - (1 credit)

This course is intended for students who are new to studying the Bible. There will be an overall survey of the Bible, as well as instruction on how to study the Scriptures.

HS Bible 9 – Old Testament Survey - (1 credit)

This survey course is intended to give students an overview of each of the 39 books of the Old Testament. The study of the Old Testament will allow students to evaluate the differing views of God held by different Christian denominations as well as Jews, Muslims, atheists and many other worldviews who encounter the texts of the ancient Hebrews. The course is structured to examine the books of the Hebrew Scriptures from an historical, literary and spiritual perspective. The History of the ancient near east and northern Africa provides the backdrop for the literary genres of ancient narrative, suzerain-vassal treaties, prophetic and apocalyptic messages as well as ancient law codes, ancient Hebrew poetry and historical documentation. This course is focused on helping students reflect on the meta-narrative of progressive revelation as the writings of the Hebrew people develop a messianic expectation into the rise of the Roman Empire.

HS Bible 10 – New Testament Survey - (1 credit)

This survey course is intended to give students an overview of each of the 27 books of the New Testament. The study of the New Testament will allow students to evaluate the differing views of God held by different Christian denominations as well as Jews, Muslims, atheists and many other worldviews whose histories are intertwined with Christianity. The course is structured to examine the ancient texts of the koine Greek scriptures from an historical, literary and spiritual perspective. The History of the Hebrew people and the Roman Empire provide the backdrop for the literary genres of ancient biography, biographical theology, epistolary homily, pastoral epistles and apocalyptic messages as well as historical documentation. This course is focused on helping students reflect on the meta-narrative of progressive revelation as the writings of the followers of Jesus of Nazareth reflect the thinking and life situations of Christians in the 1st century AD.

HS Bible 11 – Comparative Religions - (1 credit) Summit Ministries' *Understanding the Times*

The goal of this class is to help students recognize the significance of some of the most influential ideas and values prevalent in our culture and to understand the assumptions about reality from which they arise. Students will compare and contrast Christianity, Islam, Secular Humanism, Marxism-Leninism,

New Age (Eastern religions), and Postmodernism. Students will read from and listen to proponents of these various views in order to accurately understand their beliefs. Throughout this course students will compare and contrast these different religious views in the disciplines of theology, philosophy, ethics, biology, psychology, sociology, law, politics, economics, and history.

HS Bible 12 – Hermeneutics & Christology - (1/2 credit) (Seniors only, one semester course)

The student will learn the grammatical/historical approach to the interpretation of Scripture and be able to defend the accuracy of that method – becoming equipped to study the Bible for his or her self. The student will also examine the person of Jesus Christ and his Work. Students will write a 9-18 page Senior Thesis articulating and defending their faith. This assignment will merge factual knowledge gained with reasoning skills developed into a final synthesis, involving both written and oral presentation. **This class is required for graduation.**

BIB 105 – Biblical Hermeneutics – (1 credit) (Seniors Only, one semester course) Dual Enrollment College Credit Course for Qualifying Students

This course is an introduction to the principles and practice of interpreting the Bible using the historical-grammatical-rhetorical method of interpretation. The course introduces students to key principles related to this method and then provides guidelines for applying these principles to determine the author's originally intended meaning. Students learn how to integrate electronic tools into the process. The course concludes with suggestions on how to determine the relevance of these original thoughts to our own lives.

BIB 103 – Creation & Covenants: OT I – (1 credit) (Seniors Only, one semester course) Dual Enrollment College Credit Course for Qualifying Students

This course surveys the books of the Pentateuch placing special emphasis on biblical beginnings and the development of the covenants as foundational for God's working in the rest of Scripture. Attention is given to background matters and critical and theological issues.

BIB 104 – Israel's Life & Literature: OT II – (1 credit) (Seniors Only, one semester course) Dual Enrollment College Credit Course for Qualifying Students

This course surveys the Historical books of the Old Testament from Joshua to Esther. Visibility is given to the poetic and prophetic books as they intersect Israel's history. Attention is given to background matters and critical and theological issues.

Independent Study - (1 credit; Juniors and Seniors only – teacher pre-approval required)

A student may explore a specialized area of Biblical studies under the direction of a Bible teacher.

English Department

High School English

A research paper will be required every year for each high school grade.

Classic Literature, Grammar and Composition – (English 9) - (1 credit) BJU Press and various novels
This course focuses on a variety of genres from different time periods to illustrate the breadth and depth of literature. Students investigate different literary devices and learn to apply them in their own writing. They learn to master the writing process through a variety of compositions, including short stories, essays, and personal narratives. The course emphasizes proper essay format and correct use of citations, especially during the research essay unit. Students also learn vocabulary, sentence clarity, and grammar and punctuation rules, particularly as applied to their writing. In the reading units, the students are introduced to Poe, Shakespeare, Verne, and others.

Literary Genres and Composition (English 9 Honors/English 10) - (1 credit) Various sources
With a theme of "write for your audience," this year's class focuses on the impact of different types of writing on the audience. Students read a variety of works including *Night*, *Henry V*, and *Lord of the Flies*, among others. They learn to apply literary analysis skills and develop a basic understanding of how worldviews are expressed in literature. The class includes special units on propaganda and advertising, as well as research paper writing. Students participate in several group projects and develop oral communication skills through presentations. Additionally, they develop writing clarity through work with modifiers, active voice, and parallel construction.

American Literature and Composition (English 10 Honors/English 11) – (1 credit) Various sources
Students taking this course will develop their oral and written communication skills through various presentations/debates/compositions based upon both individual and collective research and critique of literary works. The course incorporates cultural context and thorough analysis of various literary themes and tools found in American works such as *The Scarlet Letter*, *The Great Gatsby*, *To Kill a Mockingbird*, and *Fahrenheit 451*.

British Literature and Composition (English 12) – (1 credit) Various sources
Students taking this course master the writing process using smaller compositions as well as an extensive, detailed thesis project corresponding with the Senior Bible course. Through various presentations based upon research, analysis and critique of literary works, students develop their oral communication skills. The literary works encompass a timeline study of British literature and history, covering such pieces as *Beowulf*, *Othello*, *Paradise Lost*, *Rime of the Ancient Mariner*, and *The Importance of Being Earnest*, among others. Additional writers include Jonathan Swift, Alfred Lord Tennyson, The Brownings, and several modern writers.

LAN 101 – English Composition - (1 credit) (Seniors Only, one semester course) Dual Enrollment College Credit Course for Qualifying Students

Students are introduced to the expectations and mechanics of academic writing. Through actively engaging in the research process, students discover and focus on a central idea, which they will support through a critical reading and *synthesis* of sources. This will enable the student to produce organized, supported, audience-driven persuasive academic papers reflecting an awareness of the power of language to shape cultural perceptions and communicate a biblical worldview. A grade of C- or better is necessary for students to move on to fulfill their writing intensive course requirement. This course will transfer to many colleges and universities as the English Composition course required for most two and four year degrees.

Independent Study - (1 credit; Juniors and Seniors only – teacher pre-approval required)

A student may explore a specialized area of English under the direction of an English teacher.

Foreign Language Department

Spanish I - (1 credit) McDougal Littell’s *Avancemos I*

Since this is a beginning course in Spanish, students are taught to speak, read, and write simple Spanish. Students will begin training their ear to hear and interpret short Spanish passages. Vocabulary and grammar are stressed. Simple grammar such as articles, noun-adjective agreement, present tense, and simple preterit are taught. Some time is spent on Spanish culture.

Spanish II - (1 credit) McDougal Littell’s *Avancemos II*

Prerequisite - Spanish I

This course has its emphasis on listening comprehension, speaking, and writing. The student will learn the present, preterit, imperfect, present progressive, subjunctive, and future tenses. The student will move beyond the basics of sentence structure and learn the subject and verb complements in depth. The last objective is to teach the student to integrate language and culture as one whole. This will enable the student to visualize the Hispanic as people in need of salvation, not people strange and remote from them.

Spanish III - (1 credit) McDougal Littell’s *Avancemos III*

Prerequisite - Spanish II

This course employs advanced Spanish grammar and vocabulary with emphasis on conversation and comprehension of the language. This class includes reading comprehension and the ability to articulate both written and oral responses to reading comprehension. Students will learn preterit tense, both regular and irregular, the difference between preterit and imperfect tenses, commands, future tense, subjunctive, conditional tense, present, past and future perfect tenses, “si” clauses, and past progressive tense. Students will do in-depth cultural studies on people groups and places of interest to them and report their information in both a written and oral presentation. This class encourages not only memorization of the grammar, but encourages students to use and apply the grammar they have learned in previous study.

Spanish IV - (1 credit) Various resources

Prerequisite – Spanish III

This course is designed for students who wish to refine and enhance the language acquired in the prior three academic years of study. While it is expected that students have been introduced to many of the main concepts of Spanish grammar, this course will be a review and practice of those concepts in the context of conversation, writing, and reading. Students will focus on improving their oral and written expression as well as their reading and listening skills. Spanish will be spoken extensively in the classroom by the students and the professor. The main focus will be on the history of Latin America as it relates to the culture and contemporary issues faced in those countries today.

Greek I, II, III, IV – (1 credit each) Essentials of New Testament Greek by Ray Summers and Thomas Sawyer, study guide by Stephen Cox

Prerequisite – Teacher approval

An elementary study of the vocabulary, forms, and basic grammar of the Greek New Testament. Students will translate simple sentences into Greek and more advanced sentences from Greek to English to reinforce instruction.

Course justification: The authors of the Bible were inspired in three languages: in the Old Testament, Hebrew and Aramaic; in the New Testament, Greek. Today, numerous translations and interpretations are available. The only way one can adequately judge the accuracy and value of these is through knowledge of the original languages.

Independent Study - (1 credit; *Juniors and Seniors only – teacher pre-approval required*)

A student may explore a specialized area of language studies under the direction of a language teacher.

Mathematics Department

Pre-Algebra - (1 credit) McDougal-Littell's *Pre-Algebra*

This is a pre-algebra class designed to focus on fundamental algebraic problem solving as well as review in fractions, decimals, ratio, percent, exponents, and basic geometry. This is a preparation for Algebra I.

Algebra I - (1 credit) Houghton, Mifflin, Harcourt *Algebra I (on iPad)*

Prerequisite - "C" minimum average in Pre-Algebra or a teacher's recommendation

This course covers equations, inequalities, functions, systems, and exponents. Problem solving is emphasized through linear equations, polynomials, factorings, and quadratic equations. Students will learn to think both inductively and deductively. **This course is required for graduation.**

Geometry - (1 credit) Houghton, Mifflin, Harcourt *Geometry (on iPad)*

Prerequisite - Algebra I

Geometry will cover the fundamentals of two-column proofs using theorems and postulates with an emphasis on reasoning skills. Students are introduced to parallel and perpendicular lines, triangle

congruence, and properties and attributes of triangles, polygons, quadrilaterals and circles. Reasoning skills and problem solving are emphasized using trigonometry, transformational geometry, and spatial reasoning. **This course is required for graduation.**

Algebra II - (1 credit) Holt-McDougal's *Algebra II*, Houghton Mifflin Harcourt

Prerequisite - Algebra I, Geometry

Algebra II represents an overview of Algebra I at the beginning of the course. The concepts of relations and functions will be applied to the coordinate plane. Students will learn simplifying and factoring of polynomials using the FOIL method and binomial expansion which will be used later in Trigonometry. An introduction to conics, trigonometric functions, irregular areas, logarithmic functions, and statistics will be covered briefly. The order found in mathematics exists because of the God who created an orderly universe. This course includes practice and preparation for college entrance exams

SAT Prep/Trigonometry – (1 credit) Amsco's Preparing for the SAT Mathematics Amsco School Publications, Inc

Prerequisite – Geometry OR Teacher Approval

SAT Prep provides a complete review of topics covered in the mathematics portion of the SAT, including the new Level 2 topics debuted in March, 2016. Mathematic sections of the SAT focus on a student's reasoning and problem-solving skills in four basic categories: Arithmetic-Numbers and Operations, Algebra and Functions, Geometry and Measurement, and Number Patterns, Probability, Statistics, and Data Analysis. The newer levels will focus on real-world contexts. SAT Prep is a P/F class.

Statistics – (1 credit, *Juniors and Seniors Only*, Regular and Honors) Understandable

Statistics Brase/Brase Houghton Mifflin

Prerequisite – Algebra II OR Teacher Approval

We live in the information age: we are bombarded with information daily, much of it statistical. Statistics provides a useful tool for understanding and evaluating this information. To achieve this goal, this course will cover a full range of necessary skills from organizing data, measures of central tendency and variation, probability, distributions, estimation, and hypothesis testing.

Pre-Calculus - (1 credit, Honors) McDougal-Littell's *Pre-Calculus*

Prerequisites - Algebra I, Algebra II, and Geometry

Advanced mathematical concepts expand on topics from intermediate algebra; these are developed thoroughly to ensure understanding. Plentiful examples develop concepts within a clear, concise format. Students learn key skills through annotated examples, chapter reviews, tests, and exercises. Selected answers help students check their own progress. The content includes linear relations and functions, theory of equations, matrices and vectors, the circular functions, the trigonometric functions, sequences and series, polar coordinates and complex numbers, conics, probability, and descriptive statistics. This course includes practice and preparation for college entrance exams.

Calculus - (1 credit, Honors) Holt-McDougal's *Calculus: An Applied Approach*

Prerequisite – Pre Calculus

Calculus is the mathematics of motion and change. It will apply algebra and trigonometric concepts to solve problems dealing with rates of change, velocities, acceleration, and problems about the universe.

Consumer Math - (1 credit, *Juniors and Seniors only*) BJU Press' *Consumer Math*

This course is designed to help students develop competency in a variety of mathematical concepts. Developing thinking and reasoning skills and problem-solving abilities. Real world problems will be investigated using algebraic, graphic, and numerical techniques. Topics include credit cards, energy costs, mortgages, investments, savings, health, accident and homeowner's insurance, and more.

Independent Study - (1 credit; *Juniors and Seniors only – teacher pre-approval required*)

A student may explore a specialized area of mathematical studies under the direction of a math teacher.

Physical Education Department

Students in grades 9-12 who have not obtained a P.E. credit will be given preference for P.E. classes. High school students do not need to participate in P.E. classes if they participate in at least two MACA sports. The coaches will provide students with P.E. grades. Each MACA sport earns 1/2 credit towards P.E. with a limit of one credit total.

Physical Education - (1 credit required; courses in ½ credit increments)

This course is designed to improve the student's cardiorespiratory development through vigorous practice and competitive participation. The student will develop an appreciation for the rules, knowledge, and strategies of several team and individual sports. An effort will be made to help the student develop Christian sportsmanship through self-control, fair play, group interaction, and cooperation.

Health - (1/2 credit)

Taught from a Christian perspective, this course is designed to provide high school students with an understanding of the basic needs of the human body. It will help students care for themselves physically, emotionally, socially, and spiritually.

Independent Study - (1 credit; *Juniors and Seniors only – teacher pre-approval required*)

A student may explore a specialized area of Physical Education studies under the direction of a PE teacher.

Science Department

Integrated Physics & Chemistry - (1 credit) BJU Press Physical Science

The purpose of this course is to give students a beginning knowledge of physical science. In this course, a student will be exposed to physics and chemistry concepts. This course provides a quality foundation as well as developing laboratory skills for students who will take biology, chemistry, and physics.

Biology - (1 credit) BJU Press' *Biology A and B*

Prerequisite – Integrated Physics & Chemistry, passage of the Biology entrance exam, or teacher recommendation

Students will investigate biology at a molecular, cellular and macrobiological level through hands-on demonstrations, lab activities and various research projects. This includes information on the attributes of life, basic biochemistry, major metabolic process (photosynthesis, respiration, etc.), genetics and classification. The second half of the course is spent exploring the various living organisms in the kingdoms including bacteria, protists, fungi, plants and animals. Students will become familiar with the scientific process as well as learn good research and science writing habits. **This course is required for graduation.**

Chemistry - (1 credit) BJU Press' *Chemistry*

Prerequisites - Algebra I and Biology; enrolled concurrently in Algebra II or completed or teacher recommendation

Students will investigate various facets of chemistry through hands-on demonstrations, lab activities and various research projects. They will also learn an appreciation for the history of chemistry and chemical research by examining the development of the atomic model and the Periodic Table. Topics in this course include, but are not limited to, unit analysis (the mole), stoichiometry, gas laws, solutions and acid/base chemistry.

Anatomy & Physiology - (1 credit, Honors) Elsevier Mosby's *The Human Body in Health and Disease*

Prerequisite – 85 or higher in Biology and/or teacher recommendation

Students will develop an understanding of the function of the human body as a whole by examining the various organ systems that make it up. For each system, the anatomical structures will be studied, but the physiological function of those structures will also be explored by examining the various disorders and diseases associated with these organ systems. Students will gain some hands-on experience with anatomical structures through dissection and procedures, such as measuring blood pressure.

Physics - (1 credit, Honors) BJU Press' *Physics*

Prerequisites – 85 or higher in Biology and Algebra II; enrolled concurrently in Pre-Calculus or completed Pre-Calculus; or teacher recommendation

Students will study the fundamental laws of physics through a math based practical application of physics to real-world problems. The course includes hands-on demonstrations, lab activities and various research

projects so that students can gain a more independent approach to the design of scientific research projects. Topics covered in this course include kinematics, dynamics, Newton's laws, work, power and a variety of others. Unlike the Integrated Chemistry and Physics class offered, this course goes beyond the fundamental concepts of physics.

Independent Study - (1/2 credit per semester; *Juniors and Seniors only – teacher pre-approval required*)
A student may explore a specialized area of science under the direction of a Science instructor.

Social Studies Department

American Government - (1 credit, Regular & Honors) BJU Press' *American Government, A Christian Manifesto, and The 5000 Year Leap*

The students will learn of the men who founded our nation, the biblical foundation upon which our country is established, and how our government compares to other governments throughout history. Students will also take an in-depth look at our Constitution and founding documents and the functions of our current Government. **This course is required for graduation.**

World History - (1 credit) BJU Press' *World History*

This student will examine the rise of civilization from a biblical, Creationist viewpoint. The students will also study the Greco-Roman Empires, the dominance of the Roman Catholic and Muslim religions during the Middle Ages, the Reformation, and the Renaissance. The Age of Discovery and Enlightenment will also be studied so as to gain an understanding of the establishment and importance of the modern world, the New World and the American founding. **This course is required for graduation.**

U.S. History - (1 credit, Regular & Honors) BJU Press' *U.S. History*

The course of study will cover the history of the United States from the Civil War to the present day. An emphasis will be placed on our Christian heritage and the many biblical principles found in our early history. Attention will also be given to the forces leading to the Civil War, the Progressive era, and Depression era; the involvement of the United States in the two World Wars; and the post-WW II stalemate between the U.S. and the U.S.S.R. **This course is required for graduation.**

HIS 201 – U.S. History I (1600-1877) – (1 credit) (Seniors Only, one semester course) Dual Enrollment College Credit Course for Qualifying Students

America traces its national existence back to a European experiment that had many different purposes from economic enterprise to religious utopianism. This class will trace the history of the United States from its founding through its revolution of independence to its near collapse in the Civil War. Following a chronological scheme, students will focus on the persistent themes in American society, economics, and politics in addition to recognizing the innovation associated with America's growth. This course will transfer to many colleges and universities as part of general studies requirements.

Independent Study - (1 credit; *Juniors and Seniors only – teacher pre-approval required*)

A student may explore a specialized area of social studies under the direction of a social studies teacher.

Technology Department

Computer Science 1

Geared primarily towards providing high school students with the foundational skills necessary for success in MACA’s digitally enhanced learning environment. Students will develop advanced word processing, presentation, and spreadsheet skills, as well as intermediate website development and graphic design skills. Students will learn “digital citizenship” principles while using social media tools including Blogger, Twitter, and Google+, and will begin developing a digital portfolio and “positive digital footprint” using online tools such as LinkedIn.

Computer Science 2

Geared primarily towards preparing students for life after graduation from MACA. An emphasis is placed on becoming a highly adaptable user of technology who is able to intuitively develop and apply solutions in various known and unknown scenarios using cloud/web based tools. Students will develop advanced website development, graphic design, and project management skills, as well as basic programming skills. Students will continue to build on their digital portfolio and “positive digital footprint” using social media tools including Blogger, Twitter, and Google+, for the purpose of positioning themselves for college and career opportunities. Prerequisite: Computer Science 1

Technology Assistant (IT) - (1 credit)

Prerequisite: Computer I and teacher approval

A technology assistant works within classrooms during an assigned class period as a trouble-shooter for technology-based issues. The assignments will be given by the Technology Manager. The IT will focus on iPad questions and concerns for both staff members and fellow students. The IT will also work on application downloads, updates, and other maintenance items. All candidates must be interviewed and pre-approved by the Technology Manager.

Web Design & Development I and II (1 credit)

Prerequisite: Computer I and special permission from the Technology Manager

This course curriculum is a study of the design, creation, and maintenance of web pages and websites. Students will learn how to critically evaluate website quality and create and maintain quality web pages; learn about web design standards and why they are important; and learn to create and manipulate images. The skills learned will be utilized to create and maintain new websites for MACA and MABC.

Independent Study - (1 credit; *Juniors and Seniors only – teacher pre-approval required*)

A student may explore a specialized area of technology studies under the direction of a technology teacher.

High School Electives and Education Enrichment Program (EEP) Classes

Electives are offered according to student demand, teacher availability, and scheduling accommodations. Students must earn at least one credit in Fine Arts and one-half credit in Health and Communication to graduate. **MACA reserves the right to not offer an elective if there is not sufficient interest.**

Fine Arts Electives

HS Studio Art - (1 credit)

Studio art is designed to give the students experience with a variety of media, as well as exposure to the major movements in the field of art. Students will learn to create with the elements of art (line, shape, color, value, texture, space, and form), as well as demonstrate a knowledge and appreciation of art styles and composition

HS Band – (1 credit)

Students learn the techniques of playing instruments, working to develop ensemble and solo performances. Tonal quality and technical facility are developed. Students discuss and constructively comment on their own performances and on the performances of the band. Students will be asked to perform outside of normal class hours for programs and chapels. **This is a combined middle school high school/course.**

Journalism – (1 credit)

(Logistics of Journalism) This course is designed for students interested in journalism and developing their skills as a writer. The course explores various topics including the "nuts and bolts" of reporting and writing, content issues, ethical responsibility, interviewing skills and basic vocabulary. Students will learn the fundamentals of news, feature, editorial and sports writing. Students will create a variety original stories using differing structures and writing techniques. Students will also collaborate to publish a monthly school newspaper.

Yearbook – (1 credit)

In this course, students will gain skills in one or more of the following areas: design, advanced publishing techniques, copy writing, editing and photography while producing a creative, innovative yearbook which records school memories and events. There is an emphasis on journalism skills in this class. Participants gain useful, real world skills in time management, marketing, teamwork and design principles.

Other Electives

Communication - (1/2 credit)

Communication is a one semester course which includes discussions of the communication process, audience analysis and public speaking guidelines. Students demonstrate the assimilation of these abilities through specific exercises, written assignments, group activities, speech performances, constructive

criticism, and practice cases. Speaking projects include introductions, interviews, demonstration speeches, declamations, informative speeches, devotional speeches, and persuasive speeches. **This course is required for graduation.**

LAN 104 – Public Speaking - (1 credit) (Seniors Only, one semester course) Dual Enrollment College Credit Course for Qualifying Students

This course is designed to enable students to speak effectively on selected subjects using various methods. Classroom practice is given in oral and interpretive readings. Study is given to the correct preparation and delivery of different kinds of speeches as well as the use of correct speech habits and behavior. This course will transfer to many colleges and universities as the communication course required for most two and four year degrees. **This course may be used to meet the MACA Communication course requirement for graduation.**

Teacher’s Aide - (1/2 credit per semester; Juniors and Seniors only; pre-arrangement with teacher)

Students will be given the opportunity to assist teachers or work in the library under the approval of the Media Center Director. Possible duties include helping with bulletin boards, carrying items to the office, making copies, working with a younger struggling student, or grading papers. Students will maintain a daily journal as well as complete a quarterly paper or project. The Secondary Principal will assign interested students to a staff person who has a need for an aide.

Non-Credit Electives

Study Hall - (No credit)

Students in grades 11 or 12 may enroll in a Study Hall during 7th period. Students in grade 12 may enroll in a study hall for any class period during the day. Students enrolled in either Choir or HS Band, but not the combination, may enroll in SH for the opposite days.

High School Education Enrichment Program (EEP) Classes

Drama - (1/4 Fine Arts credit)

Drama class will attempt to work on two major productions throughout the year and/or possibly some small skits. Students will learn proper technique of acting and speaking and will apply what they have learned in the productions.

HS Worship Team – (1/4 Fine Arts credit)

Students (singers and musicians) must audition for a place on the team. The worship team will learn and lead the music for the weekly Chapels. Students may also be asked to perform at various school programs such as Grandparent’s Day, Baccalaureate, Awards Ceremonies, etc. We also need students to perform audio-visual and sound board duties.

MACA reserves the right to cancel any class for insufficient enrollment.