



*Cultivating strong minds and a passionate faith*

# **Secondary Program & Course Description Guide**

**2014-2015**

**Mount Airy Christian Academy**

16700 Old Frederick Road, Mount Airy, MD 21771

Office: 410.489.4321 Fax: 410.489.4492 [www.macamd.org](http://www.macamd.org)

Dear Parents,

Mount Airy Christian Academy desires to offer a challenging educational program that meets the needs of all our students. Please review all the information in this course guide carefully. You will note that we have added several new courses this year as well as an honors program in each of our secondary core classes. Please contact me as soon as possible to schedule a meeting to discuss your student's course selections for next year. As you and your student select next year's courses please keep in mind the following:

1. MACA administration reserves the right to make final decisions over all student selections based on – course availability, past student performance, and teacher input.
2. The Administration reserves the right to add courses and electives and update diploma programs from this stated selection guide in order to provide the best possible education for our students.
3. The Administration reserves the right to delete courses from this selection guide if it is determined that MACA cannot offer courses because of lack of student interest.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Charity Leonard  
Academic Dean

## TABLE OF CONTENTS

MACA Diploma Programs.....	4
MACA Requirements for Graduation.....	5
Course Prerequisites and Course of Study.....	6
Honors Program.....	8
Other Education Opportunities.....	10
Course Description Guide.....	12

# Mount Airy Christian Academy High School

## Diploma Programs 2014-2015

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
- minimum 75 Service Learning hours (80 Hours for class of 2018)
- 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 90 Service Learning hours (100 hours for class of 2018)
- 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 100 Service Learning hours (120 hours for class of 2018)
- 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	(American Government, World History, US History)
Math	3 or 4	(Algebra I, Geometry) 4 credits required for class of 2018
Science	3	(Biology, 2 Lab Sciences)
Foreign Language	2	
Physical Education	1	(Achievable through MACA sports)
Health	½	
Technology Education	1	(Computer I)
Fine Arts	1	
CALMS	½	
Electives	2	(can be additional core courses)
<b>TOTAL</b>	<b>Minimum of 26 credits required for graduation</b>	

Students must earn a minimum of 26 credits, participate in the MACA internship in their junior and senior years, earn a minimum of 75 Service Learning hours (80 hours for class of 2018), 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/or 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)
US History –	American Government or World History

## Recommended Course of Study

### Ninth Grade

Bible – Old Testament Survey  
English 9  
Introduction to Algebra I/Algebra I/Geometry  
American Government  
Spanish I/Computer I  
Integrated P & C or Biology\* (teacher recommendation)  
Elective

### Sample 9

OT Survey  
English 9  
Algebra I  
American Gov't  
Spanish I  
Integrated P & C  
CALMS/Health

### Tenth Grade

Bible – New Testament Survey  
English 10  
World History  
Algebra I/Geometry/Algebra II  
Biology/Chemistry  
Spanish I/II or Computer I/II  
Electives

### Sample 10

NT Survey  
English 10  
World History  
Geometry  
Biology  
Spanish II  
Electives

### Eleventh Grade

Bible – Understanding the Times  
English 11 or English 11 - H  
U.S. History or US History 11 - H  
Geometry/Algebra II/Pre-Calculus  
Chemistry/Anatomy & Physiology - H  
Computer I/II or Spanish I/II/III  
Electives

### Sample 11

Bible 11  
English 11  
History 11  
Algebra II  
Chemistry  
Computer I  
Electives

### Twelfth Grade

Bible – Hermeneutics & Christology  
English 12  
Economics /Psychology  
Algebra II /Pre-Calculus Calculus/Business Math  
Chemistry/Anatomy & Physiology/Physics - H  
Computer I/II/III or Spanish II/III /IV  
Electives

### Sample 12

Bible 12  
English 12  
Economics  
Pre-Calculus  
Physics  
Computer II  
Electives

## **HONORS PROGRAM**

In an effort to encourage our students to take demanding advanced academic work, Mt. Airy Christian Academy offers honor in all core academic subjects for grades 9-12. Core subjects include: Bible, History, English, Math and Science. 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 = 1 point and F=0 points.

### **ENTRANCE REQUIREMENTS FOR HONORS COURSES**

#### **2014-2015 GRADES 9-12**

- Student must have 3.0 (Middle school students must carry a B or above to eligible for entering a freshmen level honor class)
- Student must have written recommendation from the subject area they are seeking to enter as an honors student.
- Students seeking acceptance into honors English must present a writing sample (minimum of 2 paragraphs demonstrating proper grammar and writing ability).
- Students within honors class must maintain a 3.0 average in order to continue in the program. Students failing to meet the requirement will be moved to the regular class status in any class where they fall under a 3.0 average.
- Students taking honors must complete three out of four quarters in the honors program to obtain credit for that class.

### **STEPS REQUIRED IN EACH HONORS CLASS**

#### **STEP ONE: WORK ON AN INDEPENDENT STUDY PROJECT**

1. This is recommended as a supplement to the regular curriculum, but is not meant to be a substitute for curriculum instruction
2. Students can use their time to investigate a topic on their own within the scope of what the class is studying and with approval from the teacher.
3. Study project may involve video recording, written work, or a class presentation on a specific study which is part of the class study.
4. Project must meet pre-approved standards by the classroom teacher and principal.
5. Topic must be selected and approved prior to the second week of class.



## **STEP TWO: EXPLORE ENRICHMENT TOPICS IN THE REGULAR CLASSROOM**

1. A minimum of three enrichment topics must be explored (verbally presented to their classmates) during each marking period (quarter).
2. Must demonstrate additional information not presented in the course of study.
3. Enrichment topics must go beyond regular classroom discussion and study.

## **STEP THREE: THE TEACHER PROVIDES IN-DEPTH ACTIVITIES WITHIN EACH UNIT OF STUDY**

1. This allows for the honors student to enhance and enrich their learning through a project demonstrating higher level thinking and analysis, a class presentation using technology, and a demonstration of application of how the material is used or utilized within society.
2. Requirement of one per quarter.

## Other Education Opportunities

### Dual Credits (College and High School Credit awarded for one class)

- Students will be given the opportunity to take dual credits.
- Students must take the required minimum credits through MACA.
- Students who wish to earn the College Preparatory or Advanced College Preparatory Diploma could take dual credit courses to satisfy some of the requirements.
- Dual credits must be for classes that are not offered at MACA, unless special permission is received from the Secondary Principal.
- Dual credits will not count toward MACA GPA, Valedictorian, etc.
- Dual credits will show on MACA transcripts as transfer credits.
- Dual credits must be pre-approved by the Academic Dean
- Students taking dual credits must maintain a 3.0 GPA.
- Students must be at MACA for at least three classes.

### Off Campus College Credit

- Twelfth grade students will be given the opportunity to go off campus to get a head start on their college credits.
- In order to do this, students must maintain a 3.0 GPA at MACA.
- They must be on MACA campus for at least three classes a day, and must attend chapel weekly. Students may receive a tuition discount depending on the number of classes taken at MACA.
- Students will be eligible to play sports at MACA as long as they meet the above requirements, but they must be present for five 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 Administration.
- College classes cannot hinder a student from going on events like the retreat.
- These may also be dual credits.

### Off Campus Work Release

- Twelfth grade students will be given the opportunity to work off campus to earn money for college.

- They must have enough credits to graduate.
- Students must apply for work release and be approved by the Secondary Principal.
- Student activity will be monitored. A student should not leave campus early unless it is for his or her job.
- Students must be present for at least four 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 2014-2015

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, Regular & Honors)

This survey course gives students an overview of each of the 39 books of the Old Testament. The course is structured to provide basic information about each of the books as well as a focus on the characteristics of God. A strong emphasis in this course is helping students see the “big picture” perspective as they study how God has worked through His people to carry out His plan of salvation. **This course is required for graduation.**

#### **HS Bible 10 – New Testament Survey** - (1 credit, Regular & Honors)

The student will survey the books of the New Testament while learning to read the New Testament in its historical and spiritual context. There will be a focus on the person and ministry of the Holy Spirit as well as the disciplines of reading and memorizing Scripture. **This course is required for graduation.**

#### **HS Bible 11 – Understanding the Times** - (1 credit, Regular & Honors) Summit Ministries' *Understanding the Times*

Competing worldviews are everywhere. The goal of this class is to help Christian students recognize the significance of some of the most influential ideas and values prevalent in our non-Christian culture and to understand the unbiblical, unrealistic, and even irrational assumptions about reality from which they arise. Understanding the differences between the biblical Christian worldview and the Secular Humanist, Marxist, Cosmic Humanist, Postmodern, and Islamic worldviews will better prepare the students to love, live, and defend God's truth as revealed in the Bible and in His Creation. **This course is required for graduation.**

#### **HS Bible 12 – Hermeneutics & Christology** - (1 credit, Regular & Honors) (*Seniors only*)

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.**

## **English Department**

### **High School English**

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

**English 9** - (1 credit, Regular & Honors) BJU Press *Writing and Grammar 9* and TextWord *Implications of Literature*

A study is made of the fundamentals of English grammar and composition. Attention is given to vocabulary, spelling, parts of speech, punctuation, etc. In literature, students study a variety of genres as well as many great authors and learn to write both creative and expository compositions. Literature includes *Great Expectations*. **This course is required for graduation.**

**English 10** - (1 credit, Regular & Honors) BJU Press *Writing and Grammar 10* and TextWord *Implications of Literature*

Literature for this course will include various genres (short stories, poetry, nonfiction, and biography) and will culminate in the novel *A Tale of Two Cities*. Basic grammar will involve parts of speech, phrases, clauses, diagramming, agreement, usage, punctuation, and capitalization. The writing process and different strategies for writing will be taught. Students will write reports, letters, essays, poetry, short stories, and a major research paper. Students will learn vocabulary and study skills. Literature includes *A Tale of Two Cities* and *Julius Caesar*. **This course is required for graduation.**

**English 11** - (1 credit, Regular & Honors) BJU Press *Writing and Grammar 11*

This class will review grammar, diagramming, capitalization, punctuation, usage, and agreement. It will teach vocabulary for SAT preparation, and it will also review study skills and the writing process. Students will practice creative writing, critical responses to literature, and a major research project. Class will focus on American literature including *The Scarlet Letter*, *To Kill a Mockingbird*, and *Huck Finn*. **This course is required for graduation.**

**English 12** - (1 credit, Regular & Honors ) BJU Press *Writing and Grammar 12*

This course will review study skills, grammar, diagramming, and usage. It will focus on vocabulary words every high school graduate should know. Students will write various essays (descriptive,

comparison, persuasive, and issue analysis) as well as a full-length research report. Class will focus on British literature including *The Screwtape Letters*, *Macbeth*, and *The Hobbit*. **This course is required for graduation.**

**English as a Second Language (ESL)** - (1 credit) Longman's *Fundamentals of English Grammar* (4<sup>th</sup> edition) and *Basic English Grammar* (3<sup>rd</sup> edition)

The goal for English language learners is to develop conversational as well as academic English proficiency. Besides vocabulary, the students will learn grammar, writing, and usage, as well as become familiar with English idioms.

**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 the English Department Head.

## **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. Vocabulary and grammar are stressed. 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, present perfect, present progressive, past perfect, future and preterit past tenses, regulars, and irregulars. 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. Class includes reading comprehension and the ability to articulate both written and oral responses to the reading comprehension. Students will learn preterite tense, both regular and irregular, the difference between preterite 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 more 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.

### **Mathematics Department**

#### **Pre-Algebra** - (0 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, Regular & Honors) McDougal-Littell's *Algebra I*

Students must earn a "C" minimum average in Pre-Algebra or have a teacher's recommendation to take this class. This course covers real numbers, rational numbers, square roots, graphing, and a constant review of general mathematics. Problem solving is emphasized through linear equations, polynomials, factorings, and quadratic equations. Students will learn to think deductively. **This course is required for graduation.**

#### **Geometry** - (1 credit, Regular & Honors) McDougal-Littell's *Geometry*

Prerequisite - Algebra I

Geometry will cover the fundamentals of two-column proofs with much detail given to theorems and postulates. Students are taught the unique properties found in right triangles and parallelograms, which introduces them to trigonometry. Geometry develops logical and analytical thinking, which is very useful in making small and large decisions. **This course is required for graduation.**

#### **Algebra II** - (1 credit, Regular & Honors) McDougal-Littell's *Algebra II*

Prerequisite - Algebra I

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.

**Pre-Calculus** - (1 credit, Regular & 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.

**Calculus** - (1 credit, Regular & 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.

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

This course is designed to help students develop competency in mathematics for business use as well as personal finance. Students follow a step-by-step development of subject matter through discussions, examples, and model solutions that will facilitate student progress. Topics include health and accident insurance, credit cards, energy costs, mortgages, investments, savings certificates, and homeowner's insurance.

**Statistics** – (1 credit, Regular & Honors, *Juniors and Seniors only*)

Statistics is a non-calculus based course that introduces students to the basic concepts in probability and statistics. Topics covered in the course include sampling techniques, data display, sampling theory, probability distributions, and regression and correlation analysis. Reliability analysis through hypothesis testing and confidence intervals is introduced in the course through applications to real life problems in economics, business and industrial contexts

## **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 are participating in a MACA sport. The coaches will provide students with P.E. grades. Instead of taking P.E. classes, students will be able to earn elective credits, work as a teacher's aide, or sign up for a Study Hall. 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.

## Science Department

**Integrated Physics & Chemistry** - (1 credit, Regular & Honors) BJU Press' *The Physical World*

The purpose of this course is to give students a beginning knowledge of physical science and the scientific method. In this course a student will develop laboratory skills which will be useful when students take biology, chemistry, and physics.

**Biology** - (1 credit, Regular & Honors) BJU Press' *Biology A and B*

Prerequisite – Integrated Physics & Chemistry or teacher recommendation

This course aims at discovering order and continuity in nature. It begins with a study of similarities of all living things. It then covers biochemical processes in the cell such as photosynthesis, cellular respiration, transcription, translation, and others. The course also includes an overview of all classes of plants, animals, and protista. **This course is required for graduation.**

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

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

Upper level science designed specifically as Human Anatomy and Physiology. This course presents an organized approach to the eleven body systems in relative detail. Some of this course is designed for “hands-on” learning and would greatly benefit anyone pursuing a career in the Life Science realm.

**Chemistry** - (1 credit, Regular & Honors) BJU Press' *Chemistry*

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

Chemistry presents an overview of the nature of the relationship between science and human progress. This class will discuss the classification of matter, chemical formula and compound writing, hydrates, atomic theory, gas laws, oxidation-reduction, ionic and covalent bonding,

molecular structure, and kinetic theory. Chemistry shows that a Supreme Being created the world, and it is revealed that Supreme Being is God.

**Physics** - (1 credit, Regular & 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

Physics is the study of science in motion. We will cover topics such as circular motion, friction and frictionless planes, inertia, gravitational pull with different reference points, centripetal and centrifugal motion, and vectors.

**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 the Science Department Head.

## **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, Regular & Honors) 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. Attention will be given to the rise and conflict of the modern European nations. The course will conclude with a study of the mistakes that led to WW II and since the end of WW II that have led to the present stalemate with Communism. **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.**

**Economics** - (1 credit) BJU Press *Economics (Juniors and Seniors only)*

The first semester will be devoted to a study of the forces of supply and demand in the marketplace both from a microeconomic and macroeconomic viewpoint. The student will examine the forces of currency, savings, and government in the national economy. The second semester will be devoted to the practical everyday handling of money such as budgeting. The students will work on a project that will teach them to budget for each of the major stages of life.

**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 the Social Studies' Department Head.

## **Technology Department**

**Computer Science I** - (1 credit)

Computers are an important tool for students in every aspect of their lives. This course gives students a working knowledge of keyboarding skills, basic computer concepts, computer applications, photo/video editing, accessing the Internet, an introduction to HTML programming, and research assignments designed to familiarize students with current technology trends. **This course is required for graduation.**

**Computer Science II** - (1 credit)

Prerequisite: Computer I or special permission from the Technology Manager

This course continues developing students' experience with current personal computer software. Students will apply their skills to advanced projects such as data analysis (spreadsheets), presentations, intermediate HTML programming, an overview of the Open Source movement (Linux, OpenOffice.org), an introduction to 3D modeling, an introduction to Java programming fundamentals using Alice 3.0, and research assignments designed to familiarize students with current technology trends.

**Lego Robotics – (1 Credit) NEW!**

This new and innovative course introduces students to the world of robotics. Using the LEGO MINDSTORMS Education workbook, students will be working on robotic-based challenges with assessment activities covering: Robotics in Society, Flowcharting and Multimedia presentations. Students will model real-life mechanisms and use creativity, logic and problem-solving skills while learning key STEM (science, technology, engineering, math) concepts.

**Technology Assistant (IT)** - (1 credit)

Prerequisite: Computer I

A technology assistant works within classrooms during an assigned class period as a troubleshooter 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.

## 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 to graduate. Electives and EEP classes run on a semester basis. **MACA reserves the right to not offer an elective if there is not enough interest.**

### Fine Arts Electives

#### **HS Studio Art - (1 credit)**

This course is designed for the advanced art student and focuses on portfolio work. Students must apply for this class and receive teacher approval.

#### **Art History - (1/2 Credit)**

Prerequisite: Art Fundamentals

Designed for the advanced art student, this course is an introduction to art history- what it is, what it does, and how it can benefit you as an artist. Explore methods of judgment and criteria for analyzing and viewing art in a broad overview of prehistoric through contemporary works of art. Small studio projects, critique/written reflections, and quizzes are included in this course.

#### **HS Band – (1 credit) NEW!**

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.**

#### **HS Choir – (1 credit) NEW!**

This course will introduce students to vocal techniques to enhance performance at concerts, chapels and other special events. Skills and elements to be studied include: breathing, posture, diction, basic musical terms and rudimental musical elements. Students will also gain a greater understanding of God's plan for musical expression, worship and expectation of how to be an effective vocal musician. **This is a combined middle school/high school course.**

## **Non-Credit Electives**

### **Study Hall - (No credit)**

Students in grades 11 or 12 may enroll in a Study Hall during 7<sup>th</sup> 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.

## **Other Electives**

### **CALMS - (1/2 credit)**

Communication and Life Management Skills (CALMS) is a course designed to develop and strengthen the following abilities/skills: time management, prioritizing tasks, studying for tests, organization of materials, note-taking, writing essays, public speaking, general communication, constructive criticism, job interviews, and dressing for success. Students demonstrate the assimilation of these abilities through specific exercises, written assignments, group activities, speech performances, constructive criticism, and practice cases. **This course is required for graduation.**

### **Journalism 1- (1 Credit) NEW!**

This course introduces students to the fundamentals of journalism. Students will analyze writing in print newspapers, magazines, online blogs and television reporting. Students will also develop story ideas, conduct research and interviews and eventually participate in publishing the first MACA newspaper. Students will also be instructed on how to write press releases about important MACA events and news that will be sent to local community papers.

### **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.

## **High School Education Enrichment Program (EEP) Classes**

### **Art Fundamentals - (1/4 Fine Arts credit)**

Students review the basics of art and types of media. Time is spent painting, drawing, learning perspective, and trying new forms of media.

### **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. Contact Mr. Buisch for more details. .

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