



# Dakar Academy High School

## Course Descriptions 2010-11 (changes in Red)

Credits are awarded based on the number of minutes per semester spent in the class (Carnegie units). A class that meets M-F for a semester earns .5 credit, a MWF class for a semester earns .3 credit and a TTh class for a semester earns .2 credit. Teacher aides earn one-half as much credit as a regular class.

### ART

**ARTI: ART I** **9th - 12th Grades** **1 Credit**  
*This beginning art class introduces and develops the basic elements and principles of art through drawing, design, and color projects. Using a variety of techniques and media including graphite, pen and ink, and charcoal, students strengthen their black and white drawing skills. Students learn color theory which they practice using soft pastels, watercolors and acrylic paint. As time permits, units covering ceramics and architectural design will be included, with each student designing and building a scale model.*

*Prerequisites: None*

**ARTII: ART II** **10th - 12th Grades** **1 Credit**  
*Students taking Art II are expected to work at a higher level, using skills acquired in Art I. Students complete more complex projects where they are given the freedom to select the media, refine their techniques, and develop individual styles. Drawing and painting skills are a primary focus. A few of the projects are designing a Corporate Identity, using Graphic Design, reproducing part of the human body as an Anatomical Illustration, and painting a Diptych or Triptych (a two or three part painting).*

*Prerequisites: Art I or instructor approval.*

**ARTIII: ART III** **11th - 12th Grades** **1 Credit**  
*This advanced class further develops and hones skills in student areas of interest, as students develop a portfolio for presentation in applying to an art college or liberal arts university. Students develop 3 series of works as a "Concentration", focusing on "Breadth", as well as "Quality". This course is adapted from the AP Studio Art and can be customized to meet individual student's portfolio requirements.*

*Prerequisites: Art II or instructor approval.*

**ART3D: 3-DIMENSIONAL DESIGN** **9th - 12th Grades (MWF)** **.6 Credit**  
*In 3D Design students learn the basics of sculpting, modeling, printmaking, and other techniques to create relief and in-the-round work of art. Materials/media usually include soap bars, clay, plaster, papier mache, and mixed media. More experienced students may be given more advanced projects.*

*Prerequisites: None*

**ARTDISC: DISCOVER ART** **9<sup>th</sup> - 12<sup>th</sup> Grades (TTh)** **.4 Credit**  
*An intriguing tour through centuries, across cultures, and into creative minds, this course is for both "non-Art" students as well as for serious Art students. From prehistoric cave paintings to contemporary art installations, students discover how Art has influenced history and how history has influenced Art. This course is designed to give students a satisfying experience in the visual arts from an appreciation perspective rather than by a studio method.*

*Prerequisites: None*

### BIBLE

**BIBINT: BIBLE INTRO** **9<sup>th</sup> - 12<sup>th</sup> Grades** **1 Credit**  
*Introduces those with a minimal Bible background to the content, structure and message of the Bible. The focus is on God's plan of redemption and restoration, and man's need for a redeemer. **Course only offered as needed and scheduled by Dept. Chair.***  
*Texts: Survey of the Old Testament, Survey of the New Testament, Moody*

**BIB9: OLD TESTAMENT THEOLOGY** **9th Grade** **1 Credit**  
*This course examines the Bible's teachings regarding the human condition and God's redemptive and restorative plan, focusing on the promised Messiah.*  
*Text: Encountering the Old Testament: A Christian Survey, Baker*

**BIB10: NEW TESTAMENT THEOLOGY** **10th Grade** **1 Credit**  
*Beginning with a quick survey of the Intertestamental Period, this course examines the life of Christ (His birth, ministry, death and resurrection) and the birth and growth of the early church as told in Acts and other New Testament writings.*  
*Text: Encountering the New Testament: A Historical and Theological Survey, Baker*

**BIBHIST: CHURCH HISTORY** 11<sup>th</sup> Grade 1<sup>st</sup> Semester .5 Credit

*A look at significant people and events of the early church, emphasizing the development of Christian doctrine. How were beliefs formulated about the Trinity? Why is it important to know Jesus Christ is both fully man and fully God?*

*Text: The Story of Christianity, Prince Press*

**BIBCD: CHRISTIAN DOCTRINE** 11<sup>th</sup> Grade 1<sup>st</sup> Semester .5 Credit

*An introduction to the twelve areas of Christian doctrine. What are the truths regarding men and angels? What else is there to know about sin and salvation? Readings to challenge students' presuppositions.*

*No text.*

**BIBWR: WORLD RELIGIONS AND CULTS** 11<sup>th</sup> Grade 2<sup>nd</sup> Semester .5 Credit

*An introduction to Christian cults and world religions, focusing on how they compare against Biblical Christianity with an emphasis on evangelism. What does Christianity have in common with other belief systems? What else should Christians know about other religions?*

*Text: So What's the Difference?, Regal*

**BIBAPOL: APOLOGETICS** 11<sup>th</sup> Grade 2<sup>nd</sup> Semester .5 Credit

*Begins with an overview of apologetics. Emphasis is on the evidence for the Bible and Jesus. How was the Bible given? How can its reliability be proven? What is the evidence for Jesus is God? What is evil? Are miracles possible?*

*Texts: Evidence for Christianity, Nelson; Living Loud: Defending Your Faith, Broadman & Holman Publishers*

**BIBETH: CHRISTIAN ETHICS** 12<sup>th</sup> Grade 1<sup>st</sup> Semester .5 Credit

*The student will examine Bible principles affecting one's moral choices and will evaluate how one makes ethical decisions. S/he will compare Biblical ethics with other modern ethical systems. A variety of issues will be examined including current and historical events and college issues.*

*Text: Biblical Ethics, Tyndale House Publishers, Inc.*

**BIBCWV: DEVELOPING A CHRISTIAN WORLDVIEW** 12<sup>th</sup> Grade 1<sup>st</sup> Semester .5 Credit

*The student will begin by clarifying his/her own worldview in light of Biblical principles. Next, the student will examine the Biblical worldview against other worldviews. These worldviews will be compared in a variety of areas, including such disciplines as history, science and politics.*

*Text: Understanding the Times, Summit Press*

**BIBGR: INTRO TO GREEK** 12<sup>th</sup> Grade 2<sup>nd</sup> Semester .5 Credit

*The student will begin developing a basic vocabulary and understanding of the grammar so that s/he will be translating sentences very early in the course. The later part of the course will continue basic vocabulary development and grammar concepts as s/he does word studies and begins translating Biblical passages.*

*Text: Essentials of N.T. Greek, Broadman & Holman Publishers*

**BIBSF: SPIRITUAL FORMATION** 12<sup>th</sup> Grade 2<sup>nd</sup> Semester .5 Credit

*The student will read about people of spiritual renown in our Christian heritage. S/he will also study and practice the disciplines used throughout church history, such as meditation, prayer, simplicity, service, worship and celebration. A focus of the class will be developing one's individual plan of spiritual growth.*

*Text: Celebration of Discipline, Harper-San Francisco*

## COMPUTER

**COMLIT: COMPUTER LITERACY** 9<sup>th</sup> - 12<sup>th</sup> Grade 1<sup>st</sup> Semester .5 Credit

*Starting with the Class of 2010, students will be required to have .5 credit in Computer Literacy for graduation. That requirement may be fulfilled by taking this class, or by testing out of the class by passing the final exam. This course will include keyboarding (35 wpm), basic word processing, spreadsheets, presentation and email skills, basic internet navigation and search skills, and basic computer care and maintenance. \*Students may also fulfill their computer literacy requirement by taking Computer Applications.*

*Prerequisite: none*

**COMAPPS: COMPUTER APPLICATIONS** 9<sup>th</sup> - 12<sup>th</sup> Grade 2<sup>nd</sup> Semester .5 Credit

*Students will have hands on instruction to develop proficiency in word processing, spreadsheets, and presentation software using Microsoft Office 2007 applications.. Students in this course work independently on a series of projects. Students may also fulfill their technology requirement by taking Computer Applications.*

*Prerequisite: Computer Literacy or teacher permission.*

*Text: A Guide to Microsoft Office 2007, Lawrenceville Press*

**COMPROG: COMPUTER PROGRAMMING** 10<sup>th</sup> – 12<sup>th</sup> Grade (**NOT offered 2010-11**) 1 Credit  
*Students will have hands-on introduction to programming in Microsoft Visual Basic.NET. This course will cover the basic concepts in computer programming and touch on some advanced concepts.*  
Text: An Introduction to Programming Using Microsoft Visual Basic.NET, Lawrenceville Press  
Prerequisite: Teacher permission

## LANGUAGE ARTS

**ENG09: ENGLISH 9** 9<sup>th</sup> Grade (required) 1 Credit  
*Students will study basic concepts of grammar and literature in its major forms (short stories, novels, poetry and dramas). The foundational aspects of narration, description, persuasion, exposition, and report writing will be stressed. Students will be asked to read several larger prose works inside and outside of class throughout the course of the year.*  
Texts: The Language of Literature, Grade 9, McDougal Littell, Writers Inc., Houghton-Mifflin

**ENG10: ENGLISH 10** 10<sup>th</sup> Grade (required) 1 Credit  
*Through extensive reading and writing assignments, students investigate the substance, strategy and style of written communication. Emphasis is on developing skills required for effective communication in academic and professional life. Development of analytical skills is balanced, as required, with review and improvement of writing mechanics (sentence structure, content organization, and effective word choice). All of this is presented in the context of an appreciation for the joys of lifelong reading and writing and is supplemented with opportunities for more creative written and oral expression.*  
Texts: The Language of Literature, Grade 10, McDougal Littell, Writer's Inc., Houghton-Mifflin, Junior Great Books, volumes 1-3

**ENG11: ENGLISH 11 (American Literature)** 11<sup>th</sup> Grade (required) 1 Credit  
*This course consists of a broad chronological survey of American literature. Novel study will include works by F. Scott Fitzgerald, Chaim Potok, and Arthur Miller. Students will continue to work on developing writing and grammar skills. Evaluation will be determined via quizzes, tests, assignments and formal examinations. A research paper will be required. Outside reading will be required.*  
Text: American Literature, McGraw-Hill

**ENG12: ENGLISH 12 (British Literature)** 12<sup>th</sup> Grade (required, or AP Lit.) 1 Credit  
*This course consists of a broad chronological survey of British Literature. Novel study will include works by Shakespeare, Thomas Hardy, and Joseph Conrad Students will continue to work on developing writing and grammar skills. Evaluation will be determined via quizzes, tests, assignments and formal examinations. A research paper will be required Outside reading will be required.*  
Text: English Literature, McGraw-Hill

**ENGAP: AP LITERATURE** 12<sup>th</sup> Grade (Alternate English credit - honor students) 1 Credit  
*As an alternative to the British Literature course, AP English seeks to not only prepare students to do well on the Advanced Placement exam, but to also discover a broader base of literature than is found in most regular English courses. In addition, student will be challenged to extend their analytical composition, and critical thinking skills through written assignments specifically geared to increase the students' abilities in these areas.*  
Prerequisite: Instructor permission

**ENGJOUR: JOURNALISM** 11<sup>th</sup> – 12<sup>th</sup> Grade (elective credit only) 1 Credit  
*The student will produce the school's newspaper and the yearbook. Primary emphasis will be placed on writing articles, composing and taking photos and designing layouts. Students will use desktop publishing and photo editing software.*  
Prerequisites: keyboarding 35 wpm, Computer Literacy or Software Applications, or teacher permission

**ENGSD: SPEECH & DRAMA** 11<sup>th</sup> – 12<sup>th</sup> Grade (elective credit only) .5 - 1 Credit  
*This is an elective English course where students learn to communicate more effectively, both in public speaking and interpersonal relations, along with basic theater training as there is considerable overlap in speaking and acting skills. Students will be required to give weekly speeches on a variety of topics and participate in 2 major plays as cast or crew. Active daily participation in classroom activities and discussions is essential to developing these skills and will be part of the grading process.*  
Text: The Stage and the School, McGraw-Hill  
Prerequisites: None

**ENGCW: CREATIVE WRITING** 9<sup>th</sup> – 12<sup>th</sup> Grade 1st and/or 2nd Semester .2 Credit  
*This class will be a creative writing workshop with class time devoted to writing and reading your work aloud to class members and getting constructive feedback as you develop writing style and composition skills. Course will be graded on a pass-fail basis.*  
Prerequisite: None  
Text: None

## **ENGLISH AS A SECOND LANGUAGE (ESL)**

The English as a Second Language (ESL) program is designed to meet the needs of students with limited knowledge of the language. Students spend 1-2 periods every day in ESL class with one-on-one or small group instruction learning the four language skills, i.e. reading, writing, speaking, and listening in English. Intensive language instruction and total immersion in an English-speaking school community motivate students to use English. To arrive at a valid assessment of a student's language proficiency, the Idea Oral, Reading and Writing Language Proficiency Tests are used. ESL testing is done upon referral from administration and teachers or may be required before students are admitted at Dakar Academy.

\*High school ESL students may receive 1 credit per year for ESL which may be counted as an English credit in place of a regular English class, or as an elective credit, or as a foreign language credit, depending on the student's needs. This will be determined in consultation with the guidance counselor.

## **FOREIGN LANGUAGE**

Placement Information: Any student new to the Foreign Language Department (including students returning from furlough or homeschooled) must meet with a French teacher before placement can be determined. Testing may be required. \*Students must complete each French level with a "C" (2.0) or higher in order to move on to a higher level of language study. All of these courses are for high school credit, and each level has a middle school section as well as a high school section with the exception of AP French and Conversational French. (Any student who wishes to repeat a French class for a better grade must notify the Guidance Counselor that s/he is doing so. When the repeated class is completed, the first class will be dropped from the transcript. The class MUST be completed during the school year following the first attempt. A student may not take French II, for example, and then go back and repeat French I for a better grade.)

**FREI: FRENCH I** **6th - 12th Grade** **1 Credit**  
Emphasis in French I is placed on building a basic vocabulary and on grammar. This basis will enable the students to comprehend classroom instructions/commands. Grammar studies include: present, imperative and introduction to past tense: pronouns; articles; adjectives. Students will be evaluated on their oral, reading, listening and written skills.  
Text: Discovering French - Bleu. Valette  
Prerequisite: None

**FREII: FRENCH II** **6<sup>th</sup> - 12<sup>th</sup> Grade** **1 Credit**  
This course is designed to build on the foundation obtained in French I. Grammar is covered in greater detail with more difficult situations being introduced. Vocabulary and verb tenses are expanded so the students will be able to express themselves in spoken and written French.  
Text: Discovering French - Blanc. Valette  
Prerequisite: French I or teacher permission

**FREIII: FRENCH III** **6th - 12th Grade** **1 Credit**  
Conducted in French, this course is designed as a means of mastering language structures learned in French I and II. It introduces new grammatical patterns and extends vocabulary and expressions (proverbs, idiomatic phrases, etc.). Students will discuss and summarize excerpts of French literature.  
Text: Discovering French - Rouge. Valette  
Prerequisite: French II or teacher permission

**FREIV: FRENCH IV** **6th - 12th Grade** **1 Credit**  
This course initiates the student to an emphasis on the mechanics and uses of the French language, consolidating what was acquired in French III. This course will introduce all the tenses, their modes, as well as their differences in usage.  
Prerequisite: French III or teacher permission

**FRECONV: CONVERSATIONAL FRENCH** **9<sup>th</sup> - 12<sup>th</sup> Grade** **.5 -1 Credit**  
This course is open to students who have completed French III and will emphasize spoken French. The course may be taken for 1 semester or the entire year. This course will be taught thematically, building and strengthening language structures, vocabulary, and cultural awareness.  
Prerequisite: French III

**FREAP: AP FRENCH LANGUAGE** **9<sup>th</sup> - 12<sup>th</sup> Grade** **1 Credit**  
This Advanced Placement French Language course will seek to give the students the ability to understand spoken French in various contexts; to develop a French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and to express themselves in French coherently, resourcefully, and with reasonable fluency and accuracy both in speech and in writing.  
Texts: Trésors du Temps. Glencoe; Preparing for the Language Examination. Scott Foresman, Addison-Wesley; Connaissance et Réactions. Prentice Hall; Invitation à Ecrire. Canadian Scholars' Press, Inc.; Tous les Poèmes pour le Cours Avancé. Scott Foresman, Addison Wesley  
Prerequisite: French IV and teacher permission

# MATHEMATICS

**MTHALGI: ALGEBRA I** **8th - 12th Grade** **1 Credit**

Students will build upon their pre-algebra skills as they learn to simplify and evaluate expressions, solve various types of equations, including systems of equations, and graph linear equations and inequalities on the number line. The course also covers operations with polynomials, including factoring techniques, and work with rational expressions.

Text: Algebra I, Glencoe 2005 Edition

Prerequisite: 8<sup>th</sup> grade pre-algebra or instructor permission for 8<sup>th</sup> graders

**MTHALGII: ADVANCED ALGEBRA (Algebra II)** **9th - 12th Grade** **1 Credit**

Advanced Algebra furthers the study of skills and concepts covered in Algebra 1. Topics include solving systems of equations and inequalities, quadratic functions as well as other types of functions and their inverses, factoring, conic sections, logarithms, and a brief introduction to probability/statistics/data analysis. Recommended for college-bound students. *Students are encouraged to provide their own TI-89 graphing calculator as the school has a limited number of TI-89 calculators available for student use in the Advanced Algebra course.*

Text: Advanced Algebra, Glencoe

Prerequisite: Algebra I

**MTHGEO: GEOMETRY** **9th - 12th Grade** **1 Credit**

Geometry develops the student's ability to reason and perform mathematical proofs. Topics to be covered during the course of the year are: lines and planes, congruence and similarity of triangles and quadrilaterals, circles, areas, and volumes.

Text: Geometry, Glencoe 2005 Edition

Prerequisite: Algebra I

**MTHCONS: CONSUMER MATH** **10th - 12th Grade** **1 Credit**

Consumer Math is a course designed to help the student master basic mathematics skills and problem solving. As the course progresses, students are able to take the skills mastered and apply them to practical situations. \*Students will be registered for this course only upon recommendation of the math teacher.

Texts: 1<sup>st</sup> semester- Practical Mathematics Skills & Concepts 2nd semester - Practical Mathematics: Consumer Applications

Prerequisite: Algebra I and teacher recommendation

**MTHTRIG: TRIGONOMETRY/PRE-CALCULUS** **11<sup>th</sup> – 12<sup>th</sup> Grade** **1 Credit**

Trigonometry is covered one semester and pre-calculus the other semester. Trigonometry topics include an extension of right triangle concepts studied in geometry, analysis of periodic functions, trigonometric identities, and solving trigonometric equations. Pre-calculus topics include the analysis of functions, especially polynomials, exponential, and logarithmic functions. Other topics such as sequences, conic sections and matrices will be covered. Recommended for college-bound students.

*\*Students are required to provide their own TI-89 graphing calculators for this course.*

Texts: Advanced Mathematical Concepts, Glencoe 2004 Edition

Prerequisites: Geometry and Advanced Algebra

**MTHAPCALC: AP CALCULUS AB** **12th Grade** **1 Credit**

Advanced Placement Calculus AB, as a high school mathematics course, is for advanced students, especially those considering careers such as engineering, economics, mathematics, life sciences or physical sciences. Calculus takes all mathematical formulas and techniques formerly learned and applies the concept of limits to produce more powerful versions. It also includes differentiation, integration of functions and their applications. This course offers the opportunity for college credit based on the student's score on the AP exam. *\*Students are required to provide their own TI-89 graphing calculators for this course.*

Text: Calculus with Analytical Geometry, HRW

Prerequisites: Trigonometry/Pre-Calculus and teacher permission.

# MUSIC

**MUSCHOIR: CONCERT CHOIR** **9th – 12th Grade** **.6 Credit**

The high school choir is open to any high school student who is interested in singing. Students will sing a variety of choral music from different eras and styles, and learn basic theory as well as the fundamentals of singing and vocal health. Choir members must participate in all scheduled concerts (December, May and Spring musical). The class meets Monday, Wednesday and Friday.

Prerequisite: None

**MUSHB: HANDBELLS** **9th - 12th Grade** **.4 Credit**

The high school handbell class is open to high school students with an interest in instrumental music. Students will improve their sight-reading skills, learn the basics of handbell technique, and build on the basic music theory they have previously

learned. Students will perform a variety of musical styles and are required to participate in all scheduled concerts. Class size is limited; returning eldest players will be given places in the class first. New players will be accepted (by audition if necessary) for any remaining places.

Prerequisite: basic music-reading skills for new players

**MUSCHAM: CHAMBER CHOIR** **9th - 12th Grade** **.4 Credit**

This is a select (audition required) 8- to 16-member choir that works on more advanced choral music repertoire and vocal technique with an emphasis on a capella (unaccompanied) singing. Students may indicate an interest by registering for the class with the understanding that auditions will be held at the end of the school year and during 1<sup>st</sup> week of school. The class meets Tuesdays and Thursdays. Members must participate in the December and May concerts. Due to the infrequent rehearsal schedule, home practice is also required.

Prerequisite: audition, and all chamber choir members must also participate in the concert choir.

**MUSTH1: MUSIC THEORY I** **9<sup>th</sup> – 12<sup>th</sup> Grade Independent Study** **.5 Credit**

This independent study course that meets twice a week is the foundational music theory class that serves as a prerequisite for AP Music Theory or as a good basic theory class for student musicians. Since the class is independent study, the student must be motivated to work outside of class on assignments. Topics covered will include basic notation of rhythm and melody, major and minor scales, key signatures, triads, 7<sup>th</sup> chords, inversions, chord progressions and analyzing music for structure and form. It is highly recommended that the student have access to a computer and a keyboard.

Prerequisite: teacher permission

Textbook: Exploring Practica Musica and Practica Musica software

**MUSTH2: AP MUSIC THEORY** **10<sup>th</sup> – 12<sup>th</sup> Grade Independent Study** **1 Credit**

AP Music Theory is year 2 of a 2-year course of study to prepare for the Advanced Placement test. Students must be prepared to spend daily time outside of the twice-weekly meetings with the instructor working on advanced projects. Counterpoint, harmonic analysis, melodic and harmonic dictation, sight-singing and advanced listening skills will be covered. This course is only for students preparing to major or minor in music in college. The student must have regular access to a computer and keyboard.

Prerequisite: Music Theory I and teacher permission.

Textbook: Music in Theory and Practice, 7<sup>th</sup> edition, McGraw-Hill and Finale Workbook software, Practica Musica software

## **PHYSICAL EDUCATION**

**PE09: P.E. 9** **9th Grade (required)** **.5 Credit**

P.E. 9 provides a major emphasis on team and recreational sports with attention to individual fitness.

**PEHEALTH: HEALTH 9** **9th Grade (required)** **.5 Credit**

Health covers all areas of wellness including decision-making regarding health, mental and emotional health issues, developing healthy relationships and nutrition. \*Grade 10-12 transfer students may take this course as an independent study.

Text: Perspectives on Health

**PE10: P.E. 10** **10th Grade (required)** **.6 Credit**

P.E. 10 provides a major emphasis on team and recreational sports with attention to individual fitness.

**PEADV: ADVANCED P.E.** **11th - 12th Grade** **.6 -1 Credit**

Advanced P.E., an elective course provides a more in-depth focus on team and recreational sports, spending more time on rules and strategy of sports. There is an added emphasis on conditioning and individual fitness as well as officiating skills. Students may take the class MWF for .6 credit (physical fitness and training) or Monday through Friday for 1 credit (sports, officiating and recreational organization). Students are responsible for organizing and running the Intramural program. \*Some after-school hours will be required for students taking the M-F course.

Prerequisites: None

## **SCIENCE**

**SCIPS: PHYSICAL SCIENCE** **Introductory Science Course, usually taken in 9th grade** **1 Credit**

Physical Science is an introduction into the fundamental concepts of chemistry and physics that will help students to better understand the physical interactions and matter in the world around them. Students will develop basic problem solving and laboratory skills that will provide a foundation for future studies in science.

Text: Physical Science, Holt, Rhinehart, Winston

Prerequisites: None

**SCIBIO: BIOLOGY** **9th - 12th Grade** **1 Credit**  
*Biology is an exploration of the characteristics of living organisms. From the microscopic to the majestic, all life shares a common biochemistry, and has similar needs and attributes. Students will be introduced to biochemistry, genetics, botany, zoology and taxonomy. We will go on 1-2 field trips throughout the school year. Students should plan to pay around 30.000cfa for the field trips.*  
Text: Glencoe Biology  
Prerequisite: Physical Science or teacher permission; 9th graders who took Algebra I in 8th grade may take Biology.

**SCICHEM: CHEMISTRY** **10th - 12th Grade** **1 Credit**  
*Chemistry is the study of the elements and compounds that compose all matter and their interactions. Students will study elements, atoms, compounds, chemical reactions, chemical bonding, the arrangement of the periodic table, the properties of gases, liquids, solids, acids and bases. Labs help to develop basic skills in qualitative observation and quantitative measurement. Problem solving in chemistry requires the use of a scientific calculator. This course is recommended for students preparing for a college major in engineering or any of the sciences. Competitive US universities often expect to see high school chemistry and physics on applicant transcripts.*  
Text: Introductory Chemistry, S.S. Zumdahl  
Prerequisites: Physical Science and Algebra I or permission from the instructor

**SCIPHYS: PHYSICS** **11<sup>th</sup> - 12<sup>th</sup> Grade** **1 Credit**  
*Physics is an investigation of the fundamental rules of our physical universe. This includes the study of forces, mass and motion, collisions, heat, sounds, light, electricity and magnetism. Labs give the opportunity for direct observation of these phenomena. Problem solving in physics requires the use of a scientific calculator. This course is recommended for students preparing for a college major in engineering or any of the sciences. Competitive US universities often expect to see high school chemistry and physics on applicant transcripts.*  
Text: Conceptual Physics, P.G. Hewitt  
Prerequisites: Physical Science and Algebra 1

**SCIAPCHEM: AP CHEMISTRY** **11<sup>th</sup> - 12<sup>th</sup> Grade (will be offered 2010-11)** **1 Credit**  
*This class is designed to extend the depth and breadth of the student's knowledge of chemistry in preparation for the Advanced Placement Chemistry test. The lab component of this class may require attendance outside of normal class hours as some labs cannot be completed in one class period.*  
Prerequisites: Chemistry and Advanced Algebra with grades of "B" or above, teacher permission  
Text: Essential Chemistry, R. Chang (2<sup>nd</sup> Edition)

**SCIAPBIO: AP BIOLOGY** **11<sup>th</sup> - 12<sup>th</sup> Grade (may not be offered 2010-11)** **1 Credit**  
*In Advanced Placement Biology, college level topics in cell biology, genetics, ecology, and evolution will be explored. Special emphasis will be given to topics of current interest in the news. The lab investigations are college labs designed to challenge students' problem solving skills and acquaint them with freshman college laboratory techniques. The topics are geared both toward the interest of students going on into a career in biology or medicine, and for those who have enjoyed high school biology but wish to take the AP exam to satisfy their college's science requirement and then concentrate in other areas of study. The lab component of this class may require attendance outside of normal class hours as some labs cannot be completed in one class period. The class will take 1-2 field trips during the school year. Students should plan on spending an extra 60.000cfa to go on the field trips. Graphing calculators will be very helpful in compiling numerical data; it is recommended each student purchase a graphing calculator.*  
Prerequisites: Biology and Chemistry  
Text: BIOLOGY, Campbell, Mitchell, Reece (5<sup>th</sup> Edition)

## **SOCIAL STUDIES**

**SSUSII: AMERICAN HISTORY II** **9<sup>th</sup> - 12<sup>th</sup> Grade (required)** **1 Credit**  
*American History II studies the political, economic, social and religious history of the U.S. from the end of the Civil War (1865) until the present. Special emphasis is given to the Christian perspective of interpreting the historical events. Students will prepare projects, presentations and papers interpreting history being studied. This course is required for graduation.*  
Text: The Americans, McDougall-Littell  
Prerequisite: none

**SSWEST: WESTERN CIVILIZATION** **10th - 12th Grade** **1 Credit**  
*This course presents a chronological narrative of world history from the earliest civilization to the present with special emphasis given to European civilization. This material will be integrated by themes which identify the patterns of development interpreted from a Christian perspective. Among these themes are: political change and economic development, the influence of geography, the growth of science and technology, and the effect of contact between cultures and artistic creativity.*  
Text: World History - Connection to Today, Prentice-Hall  
Prerequisite: none, \*Prerequisite class for AP World History

**SSAGOV: AMERICAN GOVERNMENT** 10<sup>th</sup> - 12<sup>th</sup> Grade 2<sup>nd</sup> semester .5 Credit  
*The purpose of this course is two fold: 1) to describe, analyze, and explain the American system of government and 2) to provide a basis for understanding how other nations are governed through careful examination of other political and economic systems.*  
Text: MacGruder's American History. Prentice Hall  
Prerequisites: None

**SSCWE: CURRENT WORLD EVENTS** 10<sup>th</sup> - 12<sup>th</sup> Grade 1 Credit  
*Based on what is happening at the time, this course seeks to help the student gain insight 1) into these events; 2) the world regions in which they arise; 3) the views of the significant groups/individuals involved; 4) the social history from which these events arose; 5) the anticipated future consequences (including what is needed for peace and social justice); and 6) the interconnection of these events, including their effects/perceptions throughout the world. All this will be analyzed from different world views including a Biblical world view.*  
Prerequisites: None

**SSPSYCH: PSYCHOLOGY** 11<sup>th</sup> - 12<sup>th</sup> Grade 1st Semester .5 Credit  
*The study of humans by looking at the individual. From a general introduction, the students will move on to study learning motivation, human development, personality theory, abnormal behavior, plus therapy and change. This will be analyzed from a humanistic, psychoanalytical, behavioral, and Biblical basis.*  
Text: Understanding Psychology. Glencoe-McGraw  
Prerequisites: None

**SSSOC: SOCIOLOGY** 11<sup>th</sup> - 12<sup>th</sup> Grade 2nd Semester .5 Credit  
*The study of humans by looking at larger segments of society. The course will look at cultural diversity; cultural conformity and adaptation; social structure; deviance and social control; social stratification; gender, age, and health issues; marriage and the family; education and religion in society; and collective behavior and social movements. These will be analyzed from humanistic, behavioral, and Biblical foundations.*  
Text: Sociology - the Study of Human Relationship, Holt, Rinehart & Winston  
Prerequisites: None

**SSECON: ECONOMICS** 11<sup>th</sup> - 12<sup>th</sup> Grade 1st Semester .5 Credit  
*This course is intended to give a general view of economic theory with a strong emphasis on primary source materials supporting actual case studies. Emphasis is placed on fundamental, macroeconomic, and international economic concepts. Subjects to be covered are: economic systems, business organizations, supply, demand, international trade, economic performance and instability.*  
Text: Economics - Principles and Practices. Glencoe-McGraw Prerequisites: None

**SSAPWH: AP WORLD HISTORY** 11<sup>th</sup> - 12<sup>th</sup> Grade 1 Credit  
*An Advanced Placement course that covers world history at a freshman college level including a more in-depth analysis of world history events.*  
Prerequisite: Western Civilization (or another world history course) and teacher permission.  
Text: World History, Thompson

**SSAPUS: AP U.S. HISTORY** 10<sup>th</sup>-12<sup>th</sup> Grade (NEW FALL 2010) 1 Credit  
*An Advanced Placement course that covers U.S. History at a freshman college level including an in-depth survey of American History beginning with the age of exploration and discovery to today. Students will examine the theme of the U.S.'s global engagement with the rest of the world from the fifteenth century to the present. Solid individual study habits, collaborative group skills, extensive reading and critical analysis are required.*  
Prerequisites: U.S. History II and teacher permission.  
Text: America's History, Vols. 1 and 2, James A. Henretta, Bedford/St. Martin's

## MISCELLANEOUS

**MISCC: COLLEGE & CAREERS** 10<sup>th</sup> Grade T/Th 1st Semester (Required) .2 Credit  
*This guidance course will assist students is exploring a wide variety of career options as well as the path to post high school education and the wide variety of choices available. A Biblical basis for decision-making will be discussed as well as student aptitudes, temperaments and interests. Course will be graded on a pass-fail basis.*

**MISLIFE: LIFE SKILLS** 11<sup>th</sup> - 12<sup>th</sup> Grade 1st or 2nd Semester MWF .3 Credit  
*This class will cover a wide range of practical life skills such as cooking, opening a checking account, changing a tire or filling out a job application. Highly recommended to every student prior to graduation. Priority will be given to seniors. Course will be graded on a pass-fail basis.*

**MISPHOTO: PHOTOGRAPHY**      **11<sup>th</sup>-12<sup>th</sup> Grade 1<sup>st</sup> or 2<sup>nd</sup> Semester TTh**      **.2 Credit**  
*Students will learn the basic elements of still photography and, time permitting, videography. They will understand the terms and utilize techniques necessary to successfully compose various kinds of pictures in categories such as nature, still life, action, and portraits. Students will also use software like Photoshop to edit photographs. Access to digital camera with manual controls is preferred. Priority will be given to seniors. Class size limited to 8 students.*  
*Prerequisite: Computer Literacy*  
*Text: None*

**MISSHOP: SHOP CLASS**      **11<sup>th</sup>-12<sup>th</sup> Grade M-F, 1<sup>st</sup> or 2<sup>nd</sup> Semester (NEW FALL 2010)**      **.5 Credit**  
*An introductory shop class – it will be limited to 8 students with priority being given to seniors. More detailed course description to follow.*

## **STUDY PERIODS**

*Students are normally permitted no more than one study period per day per semester. Students who take more than 2 AP classes in a semester may schedule 2 study periods per day. Requests for more study periods must be approved by the Guidance Counselor in consultation with parents and administration.*

## **STUDENT AIDES**

*Students who would like to gain work experience may earn credit for student aide work in the library, office or classroom. Credit granted will be half the amount of a class that meets the same amount of time (M-F aides will, for example, earn .25 credit for 1 semester's work). Aides will be graded by their supervising staff member, and recommendations will be put in the student's file at the end of the year. **Aide work may be required for students who do not fill up their class schedules in order to avoid having too many study periods.***

*Revised March 2010*