

## TABLE OF CONTENTS

Parent Letter.....	<a href="#"><u>2</u></a>
Graduation Requirements.....	<a href="#"><u>3</u></a>
Mississippi Scholar.....	<a href="#"><u>4</u></a>
Grade Classification.....	<a href="#"><u>6</u></a>
Diploma Types.....	<a href="#"><u>6</u></a>
Courses Offered at SMHS.....	<a href="#"><u>7</u></a>
Language Arts.....	<a href="#"><u>7</u></a>
Foreign Language.....	<a href="#"><u>8</u></a>
Mathematics.....	<a href="#"><u>9</u></a>
Science.....	<a href="#"><u>10</u></a>
Social Studies.....	<a href="#"><u>12</u></a>
Business and Computer Technology.....	<a href="#"><u>13</u></a>
Family and Consumer Science.....	<a href="#"><u>14</u></a>
Vocational and Technical.....	<a href="#"><u>15</u></a>
Fine Arts.....	<a href="#"><u>16</u></a>
Physical Education/Sports.....	<a href="#"><u>18</u></a>
AFROTC.....	<a href="#"><u>18</u></a>
Course Request Sheet.....	<a href="#"><u>20</u></a>

## Topic: Course Request Guide for 2011-2012, School Year

Dear Parent or Guardian:

Please assist your child in selecting courses for next year. In this packet of information, you will find a list of course offerings and a brief description of each course. Help your child make wise choices based on their abilities, interests, and plans for the future. Classroom teachers and the counselors can be very helpful in explaining course content and in helping your child to decide if selections fit his/her abilities and interests.

During the 2011-2012, school year St. Martin High School will continue using a block schedule which will allow a student to earn a maximum of eight credits per year. In selecting courses for next year, be sure to select enough courses to fill an eight-credit year. Students must also select alternate courses to be used in resolving any conflicts in scheduling. Caution your child to be very careful in filling out his/her form and be very selective in the choices he/she makes.

*\*students will list at least one of each of the following courses: Math, English, Science and Social Studies for the year (seniors may be the exception).*

There are a number of **changes** this year in the procedure for arena scheduling. Parents may come with their child to the assigned scheduling nights listed below (but are not required).

### STUDENTS WILL NOT BE ALLOWED TO REGISTER WITHOUT A PARENT SIGNATURE ON THEIR PRE-REGISTRATION SHEET!

Tuesday, April 12, 2011	4pm to 8pm	SENIORS (Current 11 <sup>th</sup> grade)
Wednesday, April 13, 2011	4pm to 8pm	JUNIORS (Current 10 <sup>th</sup> grade)
Thursday, April 14, 2010	4pm to 8pm	SOPHOMORES (Current 9 <sup>th</sup> grade)

**\*Pre-Registration form to be turned in to Counselor's Office on:  
Thursday (April 7) & Friday (April 8).**

After April 21, if a student has not turned in a pre-registration form, his schedule will be made for him/her by his counselor.

Sincerely,

St. Martin High School Counselors and Administration

## GRADUATION REQUIREMENTS

### Graduating Class of 2012

#### Entering 9<sup>th</sup> grade students of 2008/2009

ENGLISH	4 Credits
MATH	4 Credits – Algebra I & 2 Maths higher than Alg I
SCIENCE	4 Credits – Biology I (Required)
SOCIAL STUDIES	4 Credits – MS Studies ½ cr, /World Geography ½ cr., World History 1 cr., US History 1 cr., Economics ½ cr./ U.S Govt ½ cr.
COMPREHENSIVE HEALTH	½ credit (or Fam/Ind Health)
PE	½ Credit
BUSINESS & TECHNOLOGY	1 credit (Computer Discovery –8 <sup>th</sup> Gr), Or Keyboarding & Computer Applications
FINE ARTS	1 credit
ELECTIVES	9 Credits
TOTAL CREDITS REQUIRED.....	<b>28</b>

### Graduating Class of 2013

#### Entering 9<sup>th</sup> grade students of 2009-2010

ENGLISH	4 Credits
MATH	4 Credits – Algebra I & 2 Maths higher than Alg I
SCIENCE	4 Credits – Biology I (Required), Physical Sc. or Chemistry (Required)
SOCIAL STUDIES	4 Credits – MS Studies ½ cr, /World Geography ½ cr., World History 1 cr., US History 1 cr., Economics ½ cr./ U.S Govt ½ cr.
COMPREHENSIVE HEALTH	½ credit (or Fam/Ind Health)
PE	½ Credit
BUSINESS & TECHNOLOGY	1 credit (Computer Discovery –8 <sup>th</sup> Gr), Or Keyboarding & Computer Applications
FINE ARTS	1 credit
ELECTIVES	9 Credits
TOTAL CREDITS REQUIRED.....	<b>28</b>

### Graduating Class of 2014 & Beyond

#### Entering 9<sup>th</sup> grade students of 2010-2011& beyond

ENGLISH	4 Credits
MATH	4 Credits – Algebra I & 2 Maths higher than Alg I
SCIENCE	4 Credits – Biology I (Required), Physical Sc. or Chemistry (Required)
SOCIAL STUDIES	4 Credits – MS Studies ½ cr, /World Geography ½ cr., World History 1 cr., US History 1 cr., Economics ½ cr./ U.S Govt ½ cr.
COMPREHENSIVE HEALTH	½ credit (or Fam/Ind Health)
PE	½ Credit
BUSINESS & TECHNOLOGY	1 credit (Computer Discovery –8 <sup>th</sup> Gr), Or Keyboarding & Computer Applications
FINE ARTS	1 credit
ELECTIVES	9 Credits
TOTAL CREDITS REQUIRED.....	<b>28</b>

## MISSISSIPPI SCHOLARS

### Course of Study for Seniors of School Year 2012 and Beyond.

English Language Arts – Four (4) credits must consist of:

- English I
- English II
- English III
- English IV

Mathematics – Four (4) credits must consist of:

- Algebra I
- Geometry
- Algebra II
- Any one Carnegie Unit of comparable rigor and content (Adv Alg. and Trig)

Science – Four (4) credits must consist of:

- Biology I
- Chemistry
- Any two Carnegie Units of comparable rigor and content (Physics I preferred)

Social Studies – Four (4) credits must consist of:

- World Geography ( ½ )
- Mississippi Studies ( ½ )
- World History ( 1 )
- US History ( 1 )
- US Government ( ½ )
- Economics ( ½ )

Arts – one (1) credit

- One Carnegie unit of visual or performing arts

Advanced Electives – Two (2) credits of:

- Foreign Language I
- Foreign Language II

Additional Expectations

- 20 hours of Community or Volunteer Service during 4 years of High School
- 2.5 cumulative high school GPA
- 95 % School Attendance during 4 years of high school (excused & unexcused)
- Letter of recommendation from principal or counselor
- No in-school or out-of- school suspensions

Mississippi Scholars must also complete any remaining state-mandated high school graduation requirements. Advanced Placement courses may be substituted in Mississippi Scholar subject areas.

**2012 Graduates must complete at least one AP Course.**

**2013 Graduates must complete at least two AP Courses.**

Dual Credit and online courses are acceptable.

**Courses Approved  
For Mississippi Scholars Credit**

(Courses in **Bold** are required)

Vocational Courses approved for academic credit by MDE Board would be accepted in the Mississippi Scholars program. (\* Denotes Vocational Courses)

Science Courses:

Aerospace ( ½ )	Physics I ( 1 )
Astronomy ( ½ )	Physics II ( 1 )
<b>Biology I ( 1 )</b>	Physics B Advanced Placement ( 1 )
Biology II ( 1 )	Physics C Electricity and Magnetism AP ( 1 )
Biology, General, Advanced Placement ( 1 )	Physics C Mechanics AP ( 1 )
Biomedical Research ( 1 )	Physical Science ( 1 )
Botany ( ½ )	Zoology ( ½ )
<b>Chemistry ( 1 )</b>	* 1 unit for intro to Agriscience
Chemistry II ( 1 )	* 1 unit for concepts of Agriscience
Chemistry, General, Advanced Placement ( 1 )	* 1 unit for science of agricultural animals
Chemistry, Organic Chemistry ( 1 )	* 1 unit for science of agricultural plants
Genetics ( ½ )	* 1 unit for science of agricultural environment
Geology ( ½ )	* 2 units for completion of Agriscience 1 & 2
Human Anatomy and Physiology ( 1 )	* 2 units for completion of Allied Health 1 & 2
Marine and Aquatic Science ( ½ )	* 2 units for completion of Aquaculture 1 & 2
Microbiology ( ½ )	* 2 units for completion of forestry 1 & 2
Molecular Biology ( ½ )	* 2 units for completion of horticulture 1 & 2
	* 2 units for completion of plastics and polymer 1 & 2

Math Courses:

<b>Advanced Algebra ( ½ )</b>
<b>Algebra 1 ( 1 )</b>
<b>Algebra 2 ( 1 )</b>
Calculus ( 1 )
Calculus AB, Advanced Placement ( 1 )
Calculus BC, Advanced Placement ( 1 )
Discrete Math ( ½ )
<b>Geometry ( 1 )</b>
Pre Calculus ( ½ )
Probability and Statistics ( ½ )
Statistics, Advanced Placement ( 1 )
<b>Trigonometry ( 1 )</b>
* 1 Unit for the completion for the 2 course sequence Drafting I & II

## GRADE CLASSIFICATION

Students are classified at the beginning of each school year. They are not reclassified in the middle of the school year.

9 <sup>TH</sup> to 10 <sup>th</sup> grade.....	Successful completion of 6 credits
10 <sup>th</sup> to 11 <sup>th</sup> grade.....	Successful completion of 13 credits
11 <sup>th</sup> to 12 <sup>th</sup> grade.....	Successful completion of 20 credits
12 <sup>th</sup> grade to graduation.....	Successful completion of 28 credits

## DIPLOMA TYPES

The different types of diplomas offered at SMHS are listed below. Begin now to plan ahead if you are earning an advanced diploma, Mississippi Scholar status, honors and special honors.

Certificate – Special Education

Regular Diploma – 28 credits

Regular Diploma w/Honors – 28 credits and a QPA of 3.00 to 3.49

Regular Diploma w/Special Honors – 28 credits and a QPA of 3.5 or higher

Advanced Diploma – 32 credits

Advanced Diploma w/Honors – 32 credits and QPA of 3.00 to 3.49

Advanced Diploma w/Special Honors – 32 credits and QPA of 3.5 or higher

Advanced Honors Diploma w/Honors – 32 credits with two E2 credits and a QPA of 3.00 to 3.49

Advanced Honors Diploma w/Special Honors – 32 credits with two E2 credits and a QPA of 3.5 or higher

## AP DIPLOMA

2012 Seniors and beyond may qualify for the AP Scholar Diploma by completing 5 AP courses.

The following is a **general guide** and **timeline** to follow for any student wishing to attain an AP Scholar Diploma

9 <sup>th</sup> Grade.....	AP Human Geography
10 <sup>th</sup> Grade.....	AP Biology and AP World History
11 <sup>th</sup> Grade.....	AP US History, AP Calculus, and AP English 11
12 <sup>th</sup> Grade.....	AP Government, AP English Literature 12, & AP Chemistry
10 <sup>th</sup> thru 12 <sup>th</sup> Grade.....	AP Art 2 D Digital Studio
11 <sup>th</sup> thru 12 <sup>th</sup> Grade.....	AP Physics

## Course Offerings at St. Martin High School

### Language Arts

**English 9, 10, 11, and 12 are required courses for graduation.**

**English 9 -1 credit**-This course focuses primarily on grammar, vocabulary, usage, mechanics, and the development of writing skills in preparation for the English 10 state test. Approximately one third of the course is devoted to literature with students being required to read Shakespeare's *Romeo and Juliet*.

**English 9 Pre-AP (Honors) –1 credit (E1)** - This course is for achievement-oriented students who will be required to read several novels outside of class, write various types of essays, and take comprehensive grammar and literature tests. Approximately one third of the course is devoted to literature with students being required to read Shakespeare's *Romeo and Juliet*. *Prerequisites:* Completion of a Pre-assignment to be completed prior to the first day of class with a grade of 75% or better. If a student fails to complete the pre-assignment, he or she may be transferred to a non-advanced class. **Read Notes from the Midnight Driver by Jordan Sonnenblick and be prepared to test over the material.**

**English 10-1 credit** -This course focuses primarily on grammar, vocabulary, usage, mechanics, and the development of writing skills. Approximately one third of the course is devoted to literature with students being required to read Julius Caesar. *Prerequisite:* Successful completion of English 9. **A grade of Pass on the English 10 subject area test is a requirement for graduation.**

**English 10 Pre-AP (Honors) –1 credit (E1)** This course is for achievement-oriented students who will be required to read several novels outside of class, write various types of essays, and take comprehensive grammar and literature tests. *Prerequisites:* (1) Successful Completion of English 9. (2) Completion of a Pre-assignment to be completed prior to the first day of class with a grade of 75% or better. If a student fails to complete the pre-assignment, he or she may be transferred to a non-advanced class. **Read A Brave New World by Aldous Huxley and be prepared to test over the material. A grade of Pass on the English 10 subject area test is a requirement for graduation.**

**English 11-1 credit**-This course focuses primarily on grammar, vocabulary, spelling, usage, mechanics, and the development of written skills leading to the writing of research paper. The literary focus is on American literature consisting of an historical survey from the first settlers of the United States to, and including, the Twentieth Century. Included are representative authors and their works, historical period, literary periods, and movements, and various literary terms and techniques. A representative American novel and *The Glass Menagerie* are also studied. A research paper is required. **Perquisite: Successful completion of English 9 and 10**

**English 11 (Honors) –1 credit (E1)** - This course is for achievement-oriented students who will focus on an in-depth study of literary topics. A research paper is required. Students will read several American literary works outside of class. *Prerequisites:* (1) Successful Completion of English 9 and English 10. (2) Completion of a Pre-assignment to be completed prior to the first day of class with a grade of 75% or better. If a student fails to complete the pre-assignment, he or she may be transferred to a non-advanced class. **Read The Scarlet Letter by Nathaniel Hawthorne and be prepared to test over the material.**

**AP English 11 Language and Composition – 1.5 credits (E3). This course lasts 3 nine weeks.** This course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. By their writing and reading in this course, students should become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. *There will be a mandatory meeting in May.*  
**Prerequisite: Successful completion of English 9 and 10.**

**English 12-1 credit**-This course focuses on composition, grammar, vocabulary, spelling and mechanics. The literary focus in this class is British literature with a concentration on the Old English, Middle English, and Renaissance periods. A research project is required. **Prerequisite: Successful completion of English 9, 10, and 11.**

**English 12 (Honors)-1 credit**- This course is for achievement-oriented students who will focus on an in-depth study of the literary topics This course focuses on composition, grammar, vocabulary, spelling and mechanics. The literary focus in this class is British literature with a concentration on the Old English, Middle English, and Renaissance periods. A research project is required. **Prerequisite: Successful completion of English 9, 10, and 11.**

**AP English 12 - English Literature and Composition-1.5 credits (E3) – This course lasts 3 nine weeks.** This course includes intensive study of representative works from various genres and period, concentration on works of recognized literary merit. Selections include readings from both British and American writers from the 16<sup>th</sup> century to contemporary times. Writing in an integral part of the course, and instruction is given on the various types of academic writing. A thorough review of the fundamentals of English grammar is included on the course. *There will be a mandatory meeting in May.* **Prerequisite: Successful completion of English 9, 10, 11.**

### Elective Courses in Language Arts

**Introduction to Journalism- 1 credit (News on Shoes)** Emphasis in this course will be placed on the student’s ability to think logically, clearly, and creatively to better understand themselves as communicators. This course will concentrate on teaching a student to communicate through interpersonal, listening, self-concept, voice and diction, and public speaking skills. **See Mrs. Harkleroad.**

**Broadcast Journalism – 1 credit (News on Shoes)** This course provides the student with quality academic instruction in television/radio/video production by providing training in equipment operation, reporting, and scriptwriting, as well as planning, directing, and producing video projects. . **See Mrs. Harkleroad.**

**Mythology-1/2 credit** -This course will include reading myths from several cultures as well as an epic by Homer or Virgil. Group discussions, individual presentations, and writing experiences will be required.

**Public Speaking – ½ credit** - This course builds important communication skills that will enhance all aspects of the individual’s life. This course provides instruction in how to acquire, analyze, and evaluate information in order to organize effective speeches and practice in making those speeches.

**Journalism Lab 1 (Yearbook) –1 credit** – This course will introduce the student to basic journalism terminology, interviewing and researching techniques, news and feature writing, as well as yearbook layout and copy writing. The student will develop skills in using photography and computer equipment for publication and will produce the school yearbook. . **See Mrs. Kuehn.**

**Journalism Lab 2 (Yearbook) – 1 credit**- This course is a continuation of journalism lab 1. **See Mrs. Kuehn.**

### Foreign Language

**French 1 Distance Learning 1 credit (E1)** - An introductory course into the French language and culture. It teaches the basic concepts of listening, speaking, reading, and writing of the French language. Beginning students should be able to converse in simple conversations, write simple sentence structure, comprehend elementary texts and understand simple exchanges between two or more people. **Prerequisite: 9<sup>th</sup> Grade students must have an 80 or above in English and math to enroll in this course. 10-12 Grade students must have a 75 or above in English.**

**French 2 Distance Learning 1 credit (E2)** -An intermediate course into the French language and culture. It teaches the more complex concepts of listening, speaking, reading, and writing of the French language. Second year students should be able to converse in every day conversation, write more advanced sentence structure, comprehend higher level texts, and understand exchanges between two or more people.

**German 1 – 1 credit (E1)** - This is an introductory course in German language and culture and follows the same format and objectives as French 1. **Prerequisite: 9<sup>th</sup> Grade students must have an 80 or above in English and math to enroll in this course. 10-12 Grade students must have a 75 or above in English.**

**German 2 – 1 credit (E2)** -This is an intermediate course in the German language and culture and follows the same format and objectives as French 2.

**Spanish 1 – 1 credit (E1)** -This course teaches the four basic language skills of listening, speaking, reading, and writing. Vocabulary and grammar skills are taught at a level in which students are able to survive in a Spanish-speaking country. Culture, history, and geography of Spanish-speaking countries are taught at an introductory level. **Prerequisite: 9<sup>th</sup> Grade students must have a 80 or above in English and math to enroll in this course. 10-12 Grade students must have a 75 or above in English.**

**Spanish II – 1credit (E2)** - This course includes study of vocabulary, grammar, culture, and literature. The emphasis is on incorporating the vocabulary into everyday conversation. Students will be able to understand and respond to basic conversational questions as well as talk about survival in a foreign country where the target language is spoken.

**Spanish III – 1credit (E2)** - This course is a culmination of oral and written skills in an advanced study of the language. Students begin reading literature selections from the AP course. The emphasis on grammar and translation skills requires the reinforced language skills of speaking, listening, reading, and writing.

**Spanish IV – 1credit (E2)** - This course is the culmination of oral and written skills in an advanced study of the language. Students read literature, selections from the AP Course. Emphasis is on grammar and translation skills. This course reinforces the language skills of speaking, listening, reading, and writing.

## Mathematics

**Transition to Algebra -1credit** -This course serves as a bridge between Pre-Algebra and Algebra. Many of the same concepts of Algebra are taught at a slower pace. Some of these concepts are as follows; equations, inequalities, polynomials, factoring, exponents, functions, and graphing.

**Algebra 1 –1 credit** -This course presents basic concepts of elementary algebra. It covers algebraic equations, rational numbers, functions, problem solving, graphing, exponents, radical expressions, **graduation.**

**Algebra 2 –1 credit** - This course deals with a wide variety of topics such as number operations, radical and rational exponents, patterns, functions, and systems of equations. Students will learn to apply algebraic method to real life situations. **Prerequisite: Algebra 1**

**Algebra 2 (Honors) –1 credit (E1)** - This course deals with an in-depth study on a wide variety of topics such as number operations, radical and rational exponents, patterns, functions, and systems of equations. Students will learn to apply algebraic method to real life situations. **Prerequisite: Algebra 1**

**Geometry –1 credit** -This course provides experiences that increase the students understanding of shapes and their properties with an emphasis on wide applicability in life situations. Application of previously learned algebraic skills, logic, and development of deductive and inductive reasoning skills are utilized as students explore the representation of problem situations. **Prerequisite: Algebra 1**

**Geometry (Honors) –1 credit (E1)** -This course provides in-depth experiences that increase the students understanding of shapes and their properties with an emphasis on wide applicability in life situations. Application of previously learned algebraic skills, logic, and development of deductive and inductive reasoning skills are utilized as students explore the representation of problem situations. **Prerequisite: Algebra 1**

**Trigonometry – ½ credit (E2)** - The study of trigonometry extends algebraic skills to the exploration of circular and triangular functions with their properties and graphs. Emphasis is placed on finding missing parts of triangles, proving identities, and solving trigonometric equations. **Prerequisites: Algebra 1, Algebra 2, Geometry**

**Advanced Algebra – ½ credit (E2)** -The advanced algebra course serves as an extension of algebraic and geometric skills, combining a foundation for success in pre-calculus. Emphasis is placed on matrices, functions, polynomial equations, and conics. **Prerequisites: Algebra 1, Algebra 2, Geometry**

**Discrete Math – ½ credit (E2)** - Discrete Math will focus on topics of logic, set and graph theory, induction, recursion, and combinatorics in applications suited for further studies in mathematics, computer science, engineering and/or networking. **Prerequisites for this course are Trig and Advanced Algebra.**

**Pre-Calculus – ½ credit (E2)** - This course serves as a bridge between advanced mathematics courses and calculus and increases analysis skills, which enhance success in calculus. Emphasis is placed on advanced algebra, limits and derivatives. **Prerequisites: Advanced Algebra, Trigonometry.**

**AP Calculus AB Distance Learning –1credit (E3)** -The Advanced Placement Calculus course is intended for those students who seek college credit and/or placement from institutions of higher learning. Topics such as differentiation, integration, will be covered in this course. **Prerequisites: Adv. Algebra, Trigonometry. Course will be conducted via Distance Learning.**

**AP Calculus BC Distance Learning-1credit (E3)**- The Advanced Placement Calculus course is intended for those students who seek college credit and/or placement from institutions of higher learning. Topics such as differentiation, integration, will be covered in this course. **Prerequisites: AP Calculus AB. Course will be conducted via Distance Learning.**

## Science

**Introductory to Biology – 1 credit** -This course will provide students with a survey of Biology with and emphasis on the methods of science. This course is designed for students who require additional exposure in the scientific principles.

**Biology 1 – 1 credit** -This is a lab-based science. Students must pass the state subject area test for graduation. This is an introductory, lab-based course designed to relate basic information of living organisms, and their chemical and energy requirements, with their physical environment. The structure and function of cells, cell organization and reproduction, genetics, and living organisms' role in the environment are the focus of content. **Biology I and subject area test (passed) required for graduation. \*\*\*\*Required course for MS Scholars**

**Earth Science – 1 credit** -Earth Science is an introductory, laboratory-based course designed to explore the Earth and Universe. Topics include the composition of the Earth; weathering; plate tectonics; fossils, oceanography; atmospheric phenomena; the water cycle; and planetary and star systems.

**Physical Science –1 credit** -This course provides opportunities for students to develop and communicate an understanding of physics and chemistry through lab-based activities, mathematical expressions, and concept exploration. Concepts covered in this course include structure of matter, chemical and physical properties and changes, kinematics, dynamics, energy, waves, electromagnetic spectrum, electricity, and magnetism. **Required for students graduating in 2013 and beyond who do not take Chemistry.**

**Biology 2–1credit (E1)** -This is a lab-based continuation of Biology 1. The topics covered are biochemical processes of the cell, genetics, biotechnology, taxonomy, and behavior. **Prerequisite: Biology 1.**

**AP Biology/ Field Studies – 1.5 credits (E3) – This course lasts 3 nine weeks.** Advanced Placement Biology is designed to be equivalent to a two-semester college introductory biology course usually taken by biology majors during their first year to include topics regularly covered in a college biology course. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Upon successful completion of the course they are eligible to take the A P Exam. Based on this score, some colleges allow the student to enroll in upper level courses and/or receive college credit. **Prerequisites: Biology 1.**

**Chemistry 1 – 1 credit-(E1)** -This is a lab-based course that investigates the properties and reactions of matter. Major areas of study include the metric system and scientific notation; symbols, formulas, and nomenclature; chemical equations; gas laws; kinetic molecular theory; chemical bonding; acid-base chemistry; chemical equilibrium; and oxidation-reduction reactions. Inductive and deductive thinking skills will be emphasized. **Prerequisite: Biology I and Algebra 2. \*\*\*\* Required course for MS Scholars**

**AP Chemistry/ Field Studies – 1.5 credits (E3) – This course last 3 nine weeks.** The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students, this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is prerequisite. Students in such a course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. **Prerequisites: Chemistry 1**

**Human Anatomy and Physiology – 1credit (E2)** - This is a lab-based course that investigates that structure and function of the human body. Topics covered will include that role of tissues in the body, homeostatic mechanisms, and introductory embryology. Relationships between major body systems will be emphasized along with effects of drugs, nutrition, diseases, and biotechnological advances on certain systems. **Prerequisites: Chemistry I and/or Medical Programs I.**

**Physics – 1 credit (E2)** – This course provides opportunities for students to develop and communicate an understanding of matter and energy through lab-based activities, mathematical expressions, and concept exploration. Concepts covered in this course include kinematics, dynamics, energy, mechanical and electromagnetic waves, and electricity. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. **Prerequisite: Trigonometry**

**AP Physics –1 credit (E3)** – This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability using Algebra, Trigonometry, and Calculus (but rarely), wherever appropriate in formulating physical principles and in applying them to physical problems. The subject matter of the course is principally mechanics, kinematics, magnetism, electricity, light, sound, and nuclear physics. All phases have a laboratory component. This course provides a foundation in physics for students in the life sciences, pre-medicine, and some applied sciences, as well as other fields not directly related to science. **Prerequisite: Physics**

**Marine and Aquatic Science – ½ credit (E1) plus Field Studies – ½ credit (E1)** -This course is lab-based and field-based course that investigates the bio-diversity of salt water and fresh water organisms, including their interactions with the physical and chemical environment. The special characteristics of aquatic organisms and their environments will be explored. Human impact and use of aquatic resources will also be examined. **Prerequisite: Biology1**

**Aerospace Science – ½ credit** – Aerospace studies will provide opportunities to develop and communicate an understanding of aviation and aerodynamics through lab-based activities, mathematical expressions, and concept exploration. **Prerequisite: completed Algebra 1**

**Astronomy – ½ credit** – Astronomy studies the celestial bodies in the universe. Major areas of emphasis will include star systems, planetary systems, the history of astronomy, and technological applications. Lab investigation will be accomplished through observation or by the use of a planetarium.

**Zoology – ½ credit (E1) plus Field Studies – ½ credit (E1)** – Zoology will survey the nine major phyla of the Animal Kingdom. Morphology, taxonomy, anatomy, and physiology will be investigated. Comparative studies may be addressed during laboratory observations and dissections. **Prerequisite: Biology 1.**

**Genetics – ½ credit (E2)** – This is a lab-based course that will explore the principles of classical and molecular genetics including the relationship between traits and patterns of inheritance within organisms. Population genetics, genetic variations among individuals, and applications of modern advances in genetics will be investigated. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course.

**Botany – ½ credit (E1)** – This is a lab-based course applying basic biological principles to the study of plants. Topics studied include morphological characteristics of each division and variation in their reproduction, taxonomy, and physiology. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course.

**Engineering for High School Students – ½ credit (E2) plus Field Studies – ½ credit (E2)** – The introduction to Engineering course is designed to provide students with an introduction to the problem solving methods that Engineers use when applying scientific principles to the “Engineering” of realistic solutions. These problem solving skills should be useful to a student regardless of the academics or vocational direction that the student desires to pursue. The course includes several learning modules that focus on the development of solutions to specific problems. **Prerequisite: Algebra 2.**

## Social Studies

**World Geography Intro – ½ credit** – This course provides an overview of the geographical features of the world. This course provides an overview of the geographic features of the world. The primary focus is to provide instruction of map locations, both physical and political. Students will also learn basic cultural elements of the world’s regions. **Required for graduation**

**Mississippi Studies – ½ credit** -This course is an overview of the history of Mississippi. **Required for graduation.**

**AP Human Geography – 1 credit – (E3)** -The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding. This course is equivalent to an introductory college course in human geography. **Prerequisite: Teacher recommendation.**

**World History – 1credit** – This survey course covers world history from ancient civilizations through present day. The focus is on ancient civilizations, major world religions, the growth of European civilization, world industrialization and its effect, 20<sup>th</sup> century crises, and the trend toward a global civilization. **Required for graduation**

**AP World History – 1.5 credits (E3) – This course lasts 3 nine weeks.** This course takes the study of the World History into greater depth by allowing students to connect the past with the present by focusing on special projects, additional papers and critical thinking essays as well as in-depth research project which introduces students to basic historical research methods.

**U.S. History – 1credit** –This course provides an overview of U.S. History from Reconstruction to the present. The emphasis will be placed on the internal social, political, and economical development of the United States. This course will also focus on the country’s growth into a world power and the role of the U. S. in global civilization. Course credit required for graduation. **Required for graduation. U.S. HISTORY SUBJECT AREA TEST (PASSED) REQUIRED FOR GRADUATION.**

**AP U.S. History 1.5 credits (E3) – This course lasts 3 nine weeks.** This course is an Advanced Placement course that will allow a student to earn college credit and cover American history from colonization to modern times. – **U.S.HISTORY SUBJECT AREA TEST (PASSED) REQUIRED FOR GRADUATION.**

**U.S. Government – ½ credit** – This course is a study of the U.S. Government from its Revolutionary roots through the present. The main focus is on the study of the type of government created by the Constitution and the rights of the people protected by that Constitution. The evolution of the U.S. political system is also studied. **Required for Graduation.**

**AP US Government plus Field Experiences 1 credit (E3) -** An **in depth study** of five topics which includes Comparative Politics; Sovereignty, Authority, and Power; Political Institutions; Citizens, Society, and the State; and Political and Economic change.

**Sociology – ½ credit (E1)** – This course engages students in the study of people and their lives in groups. This will be done by examining how people behave in groups and how interaction shapes both individual and group behaviors. The analysis of the rules, organizations, and value systems that enable people to live together will also be an area of emphasis.

**Psychology – ½ credit (E1)** – This is an introductory course to psychology. Topics include the history of psychology, major schools of psychological thought, and psychological disturbances.

**Economics – ½ credit (E1)** – An introduction to the basic economic concepts, basic financial activities of individuals and governments, the Stock Market, and world trade. **Required for graduation.**

**Law Related Education – ½ credit** – Commonly know as “street law”, this course emphasizes basic rights and law and order issues important to teens and young adults.

### **Business and Computer Technology**

**Accounting 1 – 1credit** – Accounting I will allow students to learn accounting terminology, principles, and procedures as they relate to a single proprietorship, a partnership, and a corporation. The study of accounting will prepare students for accounting careers and for personal use, as well as provide opportunities for further study.

**Keyboarding – ½ credit** – This course provides the student an opportunity to master the touch method key stroking skill in developing letters, memorandums, reports, and tables for personal, educational, and business uses. This course is a required course for other courses in business. **Required for graduation if student did not pass Computer Discovery in 8<sup>th</sup> grade**

**Computer Applications – ½ credit** – This course is designed to provide each student with essential introductory skills and knowledge necessary to use computer hardware and software in daily life and occupational tasks. The student will learn to utilize computer hardware and software to improve and enhance English, science, history, mathematics, or elective subject projects, presentations, or critiques. Emphasis is placed on common applications and including disc operation systems (DOS), word processing, and data base management, and spread sheet. **Keyboarding is prerequisite: Required for graduation if student did not pass Computer Discovery in the 8<sup>th</sup> grade.**

**Desktop Publishing – ½ credit** – Desktop Publishing I offers students the opportunity to use keyboarding and word processing skills in the production of attractive documents such as flyers, letterheads, business cards, report covers, and newsletters. Graphic design and page layout techniques are emphasized. Students will produce attractive documents that effectively use and display proper desktop publishing strategies. **Prerequisites: Keyboarding and Computer Applications or 8<sup>th</sup> grade Computer Discovery.**

**Information Processing – ½ credit** - Information Processing provides the student a workable knowledge of database management and spreadsheet applications for use in the workplace and post-secondary education. Students will integrate database, spreadsheet, and word processing files to produce personal and business-related documents.

**Web Page Design I – ½ credit** – Web Page Design I is an introductory course that examines basic Hypertext Markup Language (HTML) editors and web publishing software. Course skills will include learning the essential ways to develop a web site and the evaluation of several HTML web publishing packages. **Prerequisite: Keyboarding and Computer applications or Computer Discovery**

**Web Page Design II – ½ credit** – Web Page Design II is designed to expand on the material taught in Web Page Design I. Students will take a more detailed look at the visual tools, site development/planning process, and web hosting services. Students will also develop a site on an assigned topic. **Prerequisite: Web Page Design I**

**Game Design- ½ credit** - This course is focused on students acquiring skills to create, refine, and integrate realistic 2D graphics into a game or simulation product. Students will essentially learn how to use a graphic software package, file maintenance strategies, and migration techniques and issues.

**Digital Media Design – ½ credit** – This course is designed to introduce students to various forms of digital media. Students will learn to use software to develop graphics, animation, 3-Dimensional images, and interactive media projects. **Prerequisites: Keyboarding and Computer Applications or Computer Discovery**

**Digital Photography – ½ credit** – Digital Photography introduces photography and technology skills. The purpose of the course is to enable students to develop the skills of photography through a digital medium. Students learn the basic functions of a digital camera, scanner, digital image manipulations, and photography composition. **Prerequisites: Keyboarding and Computer Applications or Computer Discovery.**

**Personal Finance – ½ credit** – The student explores personal finance decision making while developing individual skills in money management, record keeping, and banking.

### **Family and Consumer Science (Vocational)**

**Hospitality & Tourism Management I - 2 credits-** Hotel, Restaurant, and Tourism Management (HRT) includes an overview of the travel/tourism, lodging, and food service industries. The program focuses on marketing, supervisory skills, front office, reservations, bell service, housekeeping, safety, customer service, communications, food service, banquet, catering, and employability skills. Program completers are prepared to assume entry level positions in the hospitality industry or to enter advanced studies at the postsecondary level. Completers with 90 days of specialized industry work experience are eligible to obtain certification from American Hotel & Lodging Association’s Educational Institute in the following Line Level areas: Bell Attendant, Concierge, Front Desk, Room Attendant, Reservationist, Banquet Server, Banquet Set-Up, Bus person, Kitchen Steward, Restaurant Server, and Room Service.

**Hospitality and Tourism Management II - 2 credits- Continuation of HRT I**

**Family and Individual Health – ½ credit** – This course focuses on the overall well-being of your body, mind, and your relationships with other people. Emphasis is placed on developing healthy decision-making skills to help prevent disease, to improve the overall quality of life, and to cope with challenges presented by our rapidly changing world.

**Child Development – ½ credit** – This course prepares the individual to understand the developing child from the prenatal period through early childhood. Course content includes stages of development, emotionally, socially, physically, intellectually, as well as inter-generational and special needs of a child.

**Family Dynamics – ½ credit** – This course utilizes skills in critical thinking, decision-making, communication, conflict management, and resource management as they relate to personal development and responsible family and parenting decisions

**Nutrition and Wellness – ½ credit** – This course develops skills related to the importance of proper nutrition and the concept of overall wellness in modern life. It includes the instruction in basic principles of nutrition, practical knowledge and skills of food and cooking, the impact of diet on well-being, and exercise and behavior management for a healthy lifestyle.

**Resource Management – ½ credit** – This course focuses on how to prepare for work and life through career planning, money management, and independent-living techniques. Resource Management utilization will be taught to successfully achieve family, consumer, and community goals.

**Personal Development – ½ credit** – This course helps students develop skills related to positive interpersonal relationships within the family, peer groups, the work place, and the community. It includes instruction on self discovery, relationships with others, establishing goals, and career survival skills.

## **VOCATIONAL AND TECHNICAL JACKSON COUNTY TECHNOLOGY CENTER COURSES**

**\*\*This curriculum has been aligned to modules in the Contren Learning Series as endorsed by the National Center for Construction Education and Research (NCCER). Students who study this curriculum using the Contren Learning Series materials under the supervision of an instructor who has been certified by the NCCER are eligible to be tested on each module. Students who successfully pass these tests may be certified to the NCCER by the instructor and will receive documentation from NCCER.**

**Auto Mechanics I -2 credits-** Students will receive instruction in safety, measurement, basic automotive service, brakes, and electrical service.

**Auto Mechanics II -2 credits-** Students will receive instruction in engine performance, steering, suspension, and advanced electrical/electronic systems. This course will prepare students for an entry level position in the automotive repair and service industry, or for entry into a postsecondary Automotive Technology Program.

**\*\*Building Trades I -2 credits-** This is a basic course teaching fundamentals of safety, tools, math, and basic carpentry, electrical, masonry, and plumbing skills.

**\*\*Building Trades II – 2 credits-** A continuation of Building Trades I and provides advanced instruction and practical application preparing students for employment or continued education in the occupations of carpentry, electrical wiring, masonry, or plumbing.

**Information Technology I(E1) -2 credits-** This program is designed to provide the basic foundation, skills, and knowledge for computer networking. The program will provide hands-on experience in computer systems support and skill network setup, maintenance, and application.

**Information Technology II(E2) -2 credits-** Students will receive the skills necessary to prepare for certification exams and will learn how to develop, support, and integrate computing systems, acquire network planning and management skills, and provide technical support.

**Medical Programs I(E1) -2 credits-Prerequisite: Biology I** – The first year of Medical Programs introduces the student to careers available in the health field, basic anatomy and physiology, and basic patient care skills. The student will be trained to be an entry-level general basic health care assistant and trained in CPR and first aid. The student will be better able to make an informed choice of a health occupation that he/she plans to pursue.

**Medical Programs II(E2) -2 credits-** The emphasis is primarily to expose students to advanced skills in the various health occupations and the basic health care sciences. Students may participate in shadowing experiences in selected health care facilities. The student will be trained to work as an entry-level assistant in various health occupations and will be certified in CPR at the health care provider level. CNA (certified nursing assistant) program offered to seniors. *Anatomy and Physiology either taken prior to or during semester 1 of this course would be very beneficial to the student. Students completing MP I & MP II may count as 2 of their required science credits towards graduation.*

**\*\*Welding I -2 credits-** This curriculum is designed to prepare the student for entry level employment in the field of welding and fabrication. Students will complete study in occupational orientation and safety, basic math, introduction to blueprints (welding symbols), hand and power tools, oxy/fuel operations, and shielded arc welding (SMAW).

**\*\* Welding II -2credits-** Students complete study in occupational orientation and safety, advanced SMAW, semi-automatic arc welding[gas metal arc welding and flux-cored arc welding (GMAW/FCAW)], gas tungsten arc welding (GTAW), carbon arc cutting principals and practices (CAC-A), plasma arc cutting (PAC), and employability skills.

## FINE ARTS

**\*\*All visual fine arts courses have a required supply list. In lieu of the supplies, an art supply donation of \$25.00 can be applied.**

**AP 2-D Advanced Placement Studio – 1 credit (E2)** – This advanced program of study focuses on the creation of a portfolio for use in the pursuit of higher education or career opportunities. Building on concepts and skills acquired in one of the following prerequisite courses – Visual Arts I, II, and III, or visual Arts I, Drawing and Painting – students will work at a sophisticated level applying their knowledge of production, critical analysis, history and culture, aesthetics, and connections among the visual arts, other content areas, and everyday life. Work will encompass two-dimensional media, techniques, and processes in drawing, painting, photography and graphic media. **Requirements: Must be entering 11<sup>th</sup> or 12<sup>th</sup> grade. Must have an art teacher recommendation based upon a review of a body of work demonstrating accomplishment of Visual Arts, I, II, and III competencies and must purchase own art supplies.**

**General Art – 1 credit** – This course involves a broad range of media, techniques, and processes. Students will continue to develop prior knowledge and skills in the creation and study of works of art and design, building on concepts and skills acquired in the elementary and middle level course. Art work will encompass both two and three-dimensional art forms.

**Drawing (part 1) – ½ credit** – This course emphasizes basic drawing techniques using variety of black and white media to stress the understanding of the element of value. Subject matter will include still life, portrait and figure, perspective and landscape.

**Drawing (part 2) – ½ credit** –This course involves more of a concentration on figure study and spacial relationships. **Prerequisite: Drawing 1**

**Photography I – 1 credit** – This course teaches the basic methods of taking, developing and processing black and white photographs. Each student must have personal use of a 35mm camera. **Prerequisite: Each student must have his/her own 35mm camera. Only offered to Juniors and Seniors.**

**Photography II – 1 credit** – Continuation of the basic methods of taking, developing, and processing photographs. Each student must have personal use of a 35mm camera. **Prerequisite: Photography I**

**Advanced Photography – E1 -1 credit – By teacher recommendation only**

**Mixed Media – 1 credit -**

**Painting 1 – ½ credit** – This course teaches the styles and techniques in painting with a variety of media (water color and acrylic) as well as a study of composition and design, color theory, and movements and trends in art history.

**Painting 2 – ½ credit** – This course focuses on advanced creation and study of painting and continues the development of a body of work for inclusion in a portfolio. It involves a broad range of painting media, techniques, and processes. **Prerequisite: Painting 1**

**Ceramics 1 – ½ credit** – This is a beginning course in hand building and throwing on the potter's wheel. Students will begin to understand glazing techniques and a variety of low and high fire glazes and slips.

**Ceramics 2 – ½ credit** – Students will improve on hand building and throwing techniques through projects that are more technically challenging. Knowing of glazing techniques will be broadened and an emphasis will be placed on aesthetic judgment.

**Advanced Ceramics – E1 -1 credit – Sign up by teacher recommendation only**

**Theatre 1 – 1 credit** – Theatre 1 is an exploration of the theatrical process as an art form. Students will learn skills in designing, creating and performing from original and published works.

**Theatre 2 - 1 credit** – Theatre 2 continues to explore the theatrical process as an art form. Students will have the opportunity to build on skills learned in Introduction to Theatre Arts. Students will concentrate on designing, creating, and performing from original and published works.

**Art History – 1 credit** – This is a survey course of Art History from the Prehistoric Era to modern day 21<sup>st</sup> century. Through lecture and slide presentations, the student will be exposed to the components of Art History and Art Careers.

**Marching Band – 1 credit** – Offered during first semester. This course emphasizes developing the total musician and requires the student to participate in both marching and concert performances. The band marches at all football games, several parades, and some marching festivals. The band also performs several concerts.

**Concert Band – 1 credit** – Offered during second semester.

**Music Appreciation – 1 credit** – This course is a review of various composers and styles of music and provides a general knowledge base of musical concepts.

**Instrumental Music – 1 credit** – This course provides an opportunity for students to become familiar with the different types of instruments.

**Choir 1 – 1 credit.** Students focus on good vocal production and performance. There are several performances and/or contests throughout the semester. Attendance is required at all events. Several different styles of music will be performed. Trips in and out of state are possible both semesters. Ninth grade students **MUST** sign up for both Choir 1 and Choir 2. Any student that has never been in choir must also sign up for both semesters (exceptions only with teacher permission). Limited class space could prevent a student from being in choir.

**Choir 2 – 1 credit -** Continuation of Choir 1.

## Physical Education

**PE Football Fall – 1 credit**  
**PE Football Spring – 1 credit**  
**PE Baseball Fall – 1 credit**  
**PE Baseball Spring – 1 credit**  
**PE Girls Basketball Fall – 1 credit**  
**PE Girls Basketball Spring – 1 credit**  
**PE Boys Basketball Fall – 1 credit**  
**PE Boys Basketball Spring – 1 credit**  
**PE Girls Volleyball Fall – ½ credit**  
**PE Girls Slow Pitch - ½ credit**  
**PE Girls Fast Pitch – ½ credit**

**All athletic class credits are awarded in  
 ½ credit increments each 9 weeks.**

**PE Strength/Conditioning – ½ credit** – This course requires the student to participate in various strength building activities such as walking and lifting weights to improve physical strength and wellbeing.

**Driver’s Education – ½ credit** – This course is designed to help the student become better prepared to handle various situations they will encounter when they are operating a motor vehicle. Students will spend thirty hours in classroom study, twelve hours in the simulator, and three hours “behind the wheel.” All driving instruction will be fully supervised and students must pass all three sections of study in order to pass the class

## Air Force Junior ROTC

**JROTC 1 – 1 credit** – Air Force Junior Reserve Officer Training Corp-1. This course, better known as Aerospace Science (AS-1) is for students who want to have fun becoming more competitive in the post graduation workplace. This course is an aviation history course focusing on the development of flight throughout the centuries. The Leadership Education (LE-1) portion of this course addresses Air Force heritage, individual self-control, wellness, and how to become a better citizen. Students wear the United States Air Force uniform at least one day per week. Cadets will also participate in wellness activities on Fridays to include wellness exercises, mile-run, and team games. Cadets will learn and do basic Air Force marching. *\*\*\*\*Cadets may tour military installations/museums and will participate in community service. Cadets will have the option to participate in the following activities: Drill Team, Color-Guard, Saber Team, Awareness Presentation Team, Recruiting Team, Model Rocketry, and Kitty Hawk Air Society (academic honors club).*

**JROTC 2 – 1 credit** – Air Force Junior Reserve Officer Training Corp-2. This course, better known as Aerospace Science (AS-2) is for students who want to have fun becoming more competitive in the post graduation workplace. This course focuses on the Science of Flight. Students will learn about the atmosphere, human requirements of flight, principles of flight, and navigation. The Leadership Education (LE-2) portion of this course addresses learning, communication, and personal development; Building personal awareness; understanding groups and teams; and Preparing for leadership. Students wear the United States Air Force uniform at least one day per week. Cadets will also participate in wellness activities on Fridays to include wellness exercises, mile-run, and team games. Cadets will learn and do basic Air Force marching. *\*\*\*\*Cadets may tour military installations/museums and will participate in community service. Cadets will have the option to participate in the following activities: Drill Team, Color-Guard, Saber Team, Awareness Presentation Team, Recruiting Team, Model Rocketry, and Kitty Hawk Air Society (academic honors club).*

**JROTC 3 – 1 credit** – Air Force Junior Reserve Officer Training Corp-3. This course, better known as Aerospace Science (AS-3) is for students who want to have fun becoming more competitive in the post graduation workplace. This course has two options/tracks: The Exploration of Space or Astronomy. The Leadership Education (LE-3) portion of this course addresses Mapping your future; Charting your financial course; Aiming toward a college degree; and Pursuing a career. Students wear the United States Air Force uniform at least one day per week. Cadets will also participate in wellness activities on Fridays to include wellness exercises, mile-run, and team games. Cadets will learn and do basic Air Force marching.

*\*\*\*Cadets may tour military installations/museums and will participate in community service. Cadets will have the option to participate in the following activities: Drill Team, Color-Guard, Saber Team, Awareness Presentation Team, Recruiting Team, Model Rocketry, and Kitty Hawk Air Society (academic honors club).*

**280314 JROTC 4 – 1 credit** – Air Force Junior Reserve Officer Training Corp-4. This course, better known as Aerospace Science (AS-4) is for students who want to have fun becoming more competitive in the post graduation workplace. This course teaches Survival to include the elements of surviving; Personal Protection; Necessities to maintain life; and Orientation and traveling. The Leadership Education (LE-4) portion of this course addresses Introduction to management; Planning; Organizing; and Leading. Students wear the United States Air Force uniform at least one day per week. Cadets will also participate in wellness activities on Fridays to include wellness exercises, mile-run, and team games. Cadets will learn and do basic Air Force marching. *\*\*\*Cadets may tour military installations/museums and will participate in community service. Cadets will have the option to participate in the following activities: Drill Team, Color-Guard, Saber Team, Awareness Presentation Team, Recruiting Team, Model Rocketry, and Kitty Hawk Air Society (academic honors club).*