

# HANCOCK HIGH SCHOOL

## COURSE DESCRIPTIONS



**HAWK PRIDE**

7084 Stennis Airport Drive  
Kiln, MS 39556

**Hancock High School**  
**7084 Stennis Airport Drive**  
**Kiln, MS 39556**  
**Phone: 228-467-2251**  
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**Hancock County School District**  
**Web Site: [www.hancock.k12.ms.us](http://www.hancock.k12.ms.us)**

**This Course Description Book belongs to:**

**Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City/State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Phone No:** \_\_\_\_\_

**Student ID:** \_\_\_\_\_

## FINE ARTS

### Art I

**1 Credit Prerequisite: None**

**Course Code 500704**

**Art I** is an introductory program of study at the high school level that involves a broad range of media, techniques, and processes. In this course, 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 courses, students will increase 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 both two and three-dimensional art forms. **This course satisfies the fine art requirement for graduation.**

### ART II

**1 Credit Prerequisite: Art I**

**Course Code 500705**

**Art II** continues the development of knowledge and skills as well as the creation and study of works of art and design. Building on concepts and skills acquired in the prerequisite course Art I, students continue to increase their knowledge of production, critical analysis, history and culture, aesthetics, and connections among the visual arts, other content areas, and everyday life. Prerequisite requirement may be waived upon teacher recommendation based on a review of a body of work demonstrating accomplishment of Visual Arts I competencies. Work will encompass both two-dimensional and three-dimensional media, techniques, and processes. **This course satisfies an elective credit for graduation.**

### Art III

**1 Credit Prerequisite: Art II**

**Course Code 500706**

**Art III** focuses on the creation and study of more advanced works of art and beginning of the development of a body of work for inclusion in a portfolio. Building on concepts and skills acquired in prerequisite courses— Art I, and II, students will work at a more advanced level applying their knowledge of production, critical analysis, history and culture, aesthetics, and connections among the visual arts, other content areas, and everyday life. Prerequisite requirement may be waived upon teacher recommendation based on a review of a body or work demonstrating accomplishment of Art I and II competencies. Work will encompass both two and three dimensional media, techniques, and processes. **This course satisfies an elective credit for graduation.**

### Art IV

**1 Credit Prerequisite: Art III**

**Course Code 500707**

**Art IV** 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 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. Prerequisite requirement may be waived upon teacher recommendation based on a review of a body of work demonstrating accomplishment of Visual Arts I, II,

and III competencies. Work will encompass two and three-dimensional media, techniques, and processes. **This course satisfies an elective credit for graduation.**

## **ART AP Studio, Drawing Portfolio**

**1 Credit Prerequisite: Art IV/Meet AP selections requirements**

**Course Code 500741**

**Art AP** 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 prerequisite courses— Visual Arts I, II, III, and IV 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. Prerequisite requirement may be waived upon teacher recommendation based on a review of a body of work demonstrating accomplishment of Visual Arts I, II, and III competencies. Work will encompass two and three-dimensional media, techniques, and processes. This course is designed to be taught on a college level. The student will have the opportunity to take the AP exam for possible credit. **This course satisfies an elective credit for graduation.**

## **Band B**

**1 Credit Prerequisite: Director approval by audition**      **Course Code 509901**

**Band** course requirements include membership in the marching band first semester and concert band second semester. The HHS band is open to any student who is interested in developing his/her interest in marching band, concert band, and stage band. The band keeps a busy performance schedule, which includes appearances in the community, school and throughout the state and region. The band b is the concert portion of the band season (second semester). **This concert band meets the fine art requirement for graduation.**

## **Choral Music (Chorus)**

**1 Credit Prerequisite: Director approval by audition and should be taken in 2 semesters**

**Course Code 500939**

**Choral Music** provides students experiences in listening to, analyzing, describing, creating, and evaluating music within the constraints of the choral rehearsal situation. This course is designed to develop proper vocal production, acceptable articulation, and understanding of vocal scores and a general knowledge of historical facts of music currently being studied and is performance based. Students are required to perform for all performances. **This course satisfies the fine art requirement for graduation.**

## **General Music**

**1 Credit Prerequisite: None**

**Course Code 500971**

**General Music** is a course that assists students to respond emotionally and intelligently to a wide range of music. Students acquire understanding of basic musical concepts and vocabulary, knowledge of music theory, and listening, performing, creating, and critiquing. Students gain an understanding of and respect for the important role of music in their lives.

## **Theatre I**

**1 Credit Prerequisite: None**

**Course Code 500512**

**Theater I** enables the student to explore relationships of theater history, structure, acting, producing, and critiquing. **This course satisfies the fine art requirement for graduation.**

## **Theatre II**

**1 Credit Prerequisite: Theatre I**

**Course Code 500513**

**Theatre II** allows students to continue to explore the theatrical process as an art form. Students will have the opportunity to build on skills learned in Theatre I. Students will concentrate on designing, creating, producing, performing, and critiquing from original and published works. **This course satisfies an elective credit for graduation.**

## **Theatre Production**

**1 Credit Prerequisite: Theatre II Auditions required**

**Course Code 500521**

**Theatre Production** is designed to enable students who seek specialized in-depth instruction in theater, working at a sophisticated level, as they pursue specialty areas in dramatic production. Students will apply their knowledge of production, critical analysis, history, and culture, aesthetics, connections among the arts, other content areas, and everyday life in the production of theatrical work. **This course satisfies an elective credit for graduation**

## **BUSINESS AND COMPUTER EDUCATION TECHNOLOGY**

### **Accounting I**

**1 Credit Prerequisite: None**

**Course Code 070121**

**Accounting I** is a course designed to teach the basic principles and procedures of accounting for a sole proprietorship, partnership, and corporation.. Accounting enables students to manage their personal business affairs more intelligently, and it provides a foundation for further education in the field of business. **Juniors and Seniors only. This course satisfies an elective credit for graduation.**

### **Accounting II**

**1 Credit Prerequisite: Accounting I**

**Course Code 070122**

**Accounting II** is a review and expansion of topics covered in Accounting I. Accounting II will incorporate accounting principles and procedures in managerial, intermediate, and cost accounting with an emphasis on corporate accounting. Advanced concepts and practices are integrated with related computer skills. Accounting II is designed to prepare students who plan to pursue a career in accounting or business. **This course satisfies an elective credit for graduation.**

### **Computation In Business**

**1/2 Credit Prerequisite: None**

**Course Code 070171**

Computation in Business is designed to help students improve proficiency in solving problems that are encountered in many business situations. Students will apply basic mathematical concepts to solve problems related to banking, such as reconciling bank statements, choosing the best type of savings account to receive the best interest rate, and completion of basic bank forms. Installment purchases will be discussed and compared with cash purchases, calculating the difference in the two types. Personal taxes, such as payroll and income tax, will be studied. The course provides a good basic foundation in mathematical business applications that are used on a day-to-day basis by all individuals. **This course satisfies an elective credit for graduation.**

### **Computer Applications**

**½ Credit Prerequisite: Keyboarding**

**Course Code 110152**

**Computer Applications** provides each student 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 educational projects, presentations, or critiques. Emphasis is placed on common applications including disk operating systems (DOS), word processing, data base management, and spreadsheet. **This course is required for graduation if a Carnegie Unit for Computer Discovery was not previously earned.**

## **Desktop Publishing I**

**½ Credit Prerequisite: Computer Applications**

**Course Code 100156**

**Desktop Publishing** offers the student the opportunity to use keyboarding and word processing skills in the production of attractive documents such as a flyer, letterhead, business card, report cover, and newsletter. Graphic design and page layout techniques are emphasized. Students will produce attractive documents that communicate effectively and use proper desktop publishing strategies. This course is offered in conjunction with Word Processing. **This course satisfies an elective credit for graduation.**

## **Entrepreneurship**

**½ Credit Prerequisite: None**

**Course Code 080331**

**Entrepreneurship** is designed to equip students with introductory skills that will help prepare them to organize and run a business. Emphasis will be placed on business terminology, basic entrepreneurship concepts and fundamental principles. Students will be involved in selecting a business to start, developing market plans, and applying global economic concepts. This course is offered in conjunction with Personal Finance. **This course satisfies an elective ½ credit for graduation.**

## **Financial Technology**

**½ Credit Prerequisite: None**

**Course Code 070127**

Financial Technology allows the student to explore financial decision-making. It also helps each student utilize skills in money management, banking and tax planning. The course will accomplish this through the use of technological resources. Activities will include developing consumer skills, budgeting, comparison shopping, and securing credit. This course is offered in conjunction with Web Page Design. **This course satisfies an elective ½ credit for graduation.**

## **Global Marketing**

**½ Credit Prerequisite: None**

**Course Code 070332**

**Global Marketing** introduces students to the processes and functions involved in transferring business products or services to a customer. As a major business function, marketing impacts the American economic system as well as the international economy. Students will study the foundations of marketing and recognize how these concepts are important to everyone because of their impact in terms of communication and interpersonal skills, the global business market, being an asset to the business world, improving a product and service, having good selling strategies, and successfully completing financial transactions. **This course satisfies an elective ½ credit for graduation.**

## **Keyboarding**

**½ Credit Prerequisite: None**

**Course Code 070361**

**Keyboarding** provides the student an opportunity to master the touch-method of

keystroking for entering alphabet, numeric, and symbolic information on a keyboard with a ten-key pad. Emphasis is placed on developing proper speed and accuracy techniques. Students format documents such as letters, memorandums, reports, and tables for personal, educational, and business uses. **This course is required for graduation if a Carnegie Unit for Computer Discovery was not previously earned.**

## **Personal Finance**

**½ Credit Prerequisite: None**

**Course Code 070128**

**Personal Finance** allows the student to explore personal financial decision-making. It also helps each individual utilize skills in money management, record keeping, and banking. The course accomplishes this by the study of basic concepts involving economics, insurance, credit, and other related topics. Activities will include preparation of budgets, comparison-shopping, advertising research, and standard of living analysis. This course is offered in conjunction with Entrepreneurship. **This course satisfies an elective ½ credit for graduation.**

## **Web Page Design**

**½ Credit Prerequisites: None**

**Course Code 110196**

**Web Page Design** Web Page Design 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. This course is offered in conjunction with Financial Technology. **This course satisfies an elective ½ credit for graduation.**

## **Word Processing**

**½ Credit Prerequisite: Proficiency in Keyboarding**      **Course Code 070641**

**Word Processing** prepares the student with word processing skills for personal use, use in the work place, and use in postsecondary education. Introductory keyboarding skills are refined through the continued use of the keyboard. The student's use of formatting techniques is enhanced through the creation of documents such as letters, reports, memos, and tables. Through document preparation, students' master specialized software functions. This course is offered in conjunction with Desktop Publishing. **This course satisfies an elective ½ credit for graduation.**

## ENGLISH/LANGUAGE ARTS

### American Novel

**½ Credit Prerequisite: English II Acc.**

**Course Code 230130**

**The American Novel** course is an examination of literary works that have contributed significantly to the culture and literary heritage of the United States. Students will read a variety of influential works representing the late 1700's to the present to gain a sense of the evolution and current direction of the American novel. This course is offered in conjunction with Creative Writing. **This course satisfies an elective ½ credit for graduation.**

### Compensatory Writing YL

**1 Credit Prerequisite: Teacher Recommendation**

**Course Code 320145**

**Compensatory Writing**, the companion to English II YL, is a tutorial program designed for the student who needs extra time to complete assignments or a more lengthy explanation of the literature, grammar, and writing covered in the regular English II class. Class members work extra activities and complete repeated assignments until a skill is mastered. **This course satisfies an elective credit for graduation.**

### Compensatory Writing II

**½ Credit Prerequisite: Student Failed English II SATP, Passed English II**

**Course Code 320120**

**Compensatory Writing II** is a tutorial program designed for the student who needs extra practice to prepare for the retake of the English II State Test. This is offered to those students who have passed English II, but failed the English II state Test. **This course satisfies an elective ½ credit for graduation.**

### Creative Writing

**½ Credit Prerequisite: English II Acc.**

**Course Code 230511**

**Creative Writing** provides the student practice composing poems, personal descriptive and narrative essays, and short fiction. The course affords an opportunity for self expression, promotes critical thinking, expands the imagination, and develops the use of figurative and literal language. The student will pursue an independent project and be encouraged to submit works for publication. This course is offered in conjunction with American Novels. **This course satisfies an elective ½ credit for graduation.**

### English I

**1 Credit Prerequisite: 8<sup>th</sup> Grade English**

**Course Code 230107**

**English I** provides the student with a concentration of basic communication skills through the teaching of grammar, composition, and literature. Students will study various works of poetry, prose, and fiction. **This course (or the Accelerated option) is required for graduation.**

## **English I Accelerated**

**1 Credit Prerequisite: Minimum average of 85 in 8<sup>th</sup> Language Arts Adv. or average of 90 or above in 8<sup>th</sup> Language Arts and upper 15% on 8<sup>th</sup> Grade MCT2 Language portion of the State Test with teacher recommendation**

**Course Code 230170**

**English I Accelerated** provides the student with a concentration of basic communication skills through grammar, composition, and literature. In addition, the writing of a bibliography and the use of the unabridged dictionary will be taught. Creative writing is stressed to help students apply their imagination to the experiences of their lives. **This course (or English I) is required for graduation.**

## **English II**

**1 Credit Prerequisite: English I**

**Course Code 230110**

**English II**, a continuation of English I, reinforces previously learned grammatical skills and introduces new grammatical skills, paragraph and essay writing, oral communication, vocabulary and spelling. There will be a brief study of World Literature and there will be instruction in the use of the library. **This course (or the Accelerated option) and the Subject Area test are required for graduation.**

## **English II, Accelerated**

**1 Credit Prerequisite: Minimum average of 85 in English I, Accelerated or average of 94 or above in English I and teacher recommendation**

**Course Code 230171**

**English II, Accelerated** is composed of a review of basic grammatical skills with an introduction to new skills, oral communication, formal writing, vocabulary and spelling skills, World Literature, and instructions in the use of the library. **This class (or English II) and the Subject Area Test are required for graduation.**

## **English III**

**1 Credit Prerequisite: English II**

**Course Code 230113**

**English III** is a review of basic grammatical skills and the study of basic vocabulary and spelling. Emphasis is placed on writing various types of paragraphs and essays and study American Literature. A basic research paper is required. **This course (or the Accelerated option) is required for graduation.**

## **English III, Accelerated**

**1 Credit Prerequisite: Minimum average of 85 in English II, Accelerated or average of 94 or above in English II and instructor recommendation**

**Course Code 230172**

**English III, Accelerated** is a review of basic grammatical skills and the study of basic vocabulary and spelling. Emphasis is placed on writing various types of paragraphs and essays and the study American Literature as well as the use of critical thinking and

problems solving. A research paper is required. **This course (or English III) is required for graduation.**

## **English Language and Composition, Advanced Placement III**

**1 Credit Prerequisite: Minimum average of 90 in English II Accelerated, and must meet AP selections requirements**

**Course Code 230117**

**English Language and Composition, Advanced Placement** is a college-level course that emphasizes composition and rhetorical skills. Although the placement of this course in the junior year requires a survey of American literature (all genres, including short fiction, poetry, and drama), the emphasis of the Language test indicates a focus on various nonfiction genres (including letters, autobiographies, histories, speeches, and critical reviews). Students will learn to critically analyze the structure and style of language in classical and modern works and to write essays employing analytical and rhetorical skill. Colleges may award college credit based upon a student's score on the AP English Language Exam. **This class satisfies the English III graduation requirement.**

## **English IV**

**1 Credit Prerequisite: English III**

**Course Code 230116**

**English IV** is composed of a review of basic grammatical concepts, learning practical day-to-day writing, participating in a reading program, studying vocabulary and writing a well-developed research paper using the critical thinking processes and the study of English Literature. **This course (or the English IV Acc/AP) is required for graduation.**

## **English IV, Accelerated**

**1 Credit Prerequisite: Minimum average of 85 for English III, Accelerated and average of 94 or above in English III and instructor recommendation**

**Course Code 230173**

**English IV, Accelerated** is composed of a review of basic grammatical concepts, learning practical day-to-day writing, participating in a reading program, studying vocabulary, and delving further into in-depth study of literature and writing. An in-depth research paper will be required. **This course (or English IV/AP) is required for graduation.**

## **English Literature and Composition, Advanced Placement, IV**

**1 Credit Prerequisite: Minimum average of 90 or above in English III Accelerated, and must meet AP selections requirements**

**Course Code 230174**

**English Literature and Composition, Advanced Placement** is a college-level course designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for

their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Colleges may award college credit based upon a student's score on the AP English Literature Exam. **This course (or English IV/ACC) is required for graduation.**

## **Mythology**

**½ Credit Prerequisite: None**

**Course Code 230211**

**Mythology** will include reading of myths from several cultures. The content will also include an epic by Homer or Virgil. Group discussions, individual presentations, and writing experiences will be required in this course. **This course satisfies a ½ elective credit for graduation.**

## **WORLD LITERATURE**

**½ Credit Prerequisite: None**

**Course Code 230144**

The World Literature course is an examination of literary works that have contributed significantly to the thinking of humankind and have contributed greatly to various cultures. In this course, students will read a variety of masterpieces and influential literary works. The course may be organized by theme, genre, or chronology. This course is offered in conjunction with Mythology. **This course satisfies an elective ½ credit for graduation.**

# FOREIGN LANGUAGE

## French I

**1 Credit Prerequisite: None**

**Course Code 160903**

**French I** is an introduction to the study of the French language and its culture. It allows students to perform the most basic functions of the language and to become familiar with some elements of its culture. Often students participate in memorized dialogues and respond with memorized answers to memorized questions. The emphasis is placed on the development of the skills of listening, speaking, reading, and writing at a basic level and within a given context, extending outside of the classroom setting when possible. The context focuses on the students' lives and experiences and includes exposure to everyday customs and lifestyles of the target cultures. Grammar and vocabulary are selected according to the functions and notions of the language used in the various contexts. **This course satisfies an elective credit for graduation.**

## French II

**1 Credit Prerequisite: Minimum average of 80 for French I**

**Course Code 160904**

**French II** is a course that provides students with opportunities to continue the development of their listening, speaking, reading, and writing skills. Students should participate in simple, real-life conversational situations that incorporate learned elements of the language and culture. Students should compose sentences, which narrate, describe, compare, and summarize familiar topics from the target culture. Students should develop a better understanding of the similarities and differences between cultures and languages and examine the influence of the beliefs and values of the French culture. **This course satisfies an elective credit for graduation.**

## French III

**1 Credit Prerequisite: Minimum average of 80 for French II**

**Course Code 160905**

**French III** Students should continue to expand their listening, speaking, reading, and writing skills as they access short literary texts, authentic materials, and media on familiar topics. Students should be able to initiate and maintain face-to-face communication in the French language. Students should continue to refine their knowledge and understanding of the French language and culture. **This course satisfies an elective credit for graduation.**

## French IV

**1 Credit Prerequisite: Minimum average of 80 for French III**

**Course Code 160906**

**French IV** is designed to enable and inspire students to augment their language skills for use in real-life applications in a global community. Students should continue to refine their knowledge and understanding of the French language and culture. **This course satisfies an elective credit for graduation.**

## **Spanish I**

**1 Credit Prerequisite: None**

**Course Code 160933**

**Spanish I** is an introduction to the study of the Spanish language and its culture. It allows students to perform the most basic functions of the language and to become familiar with some elements of its culture. Often students participate in memorized dialogues and respond with memorized answers to memorized questions. The emphasis is placed on the development of the skills of listening, speaking, reading, and writing at a basic level and within a given context, extending outside of the classroom setting when possible. The context focuses on the students' lives and experiences and includes exposure to everyday customs and lifestyles of the target cultures. Grammar and vocabulary are selected according to the functions and notions of the language used in the various contexts. **This course satisfies an elective credit for graduation.**

## **Spanish II**

**1 Credit Prerequisite: Minimum average of 80 for Spanish I**

**Course Code 160934**

**Spanish II** This course provides students with opportunities to continue the development of their listening, speaking, reading, and writing skills. Students should participate in simple, real-life conversational situations that incorporate learned elements of the language and culture. Students should compose sentences, which narrate, describe, compare, and summarize familiar topics from the target culture. Students should develop a better understanding of the similarities and differences between cultures and languages and examine the influence of the beliefs and values of the Spanish culture. **This course satisfies an elective credit for graduation.**

## **Spanish III**

**1 Credit Prerequisite: Minimum average of 80 for Spanish II**

**Course Code 160935**

**Spanish III** students should continue to expand their listening, speaking, reading, and writing skills as they access short literary texts, authentic materials, and media on familiar topics. Students should be able to initiate and maintain face-to-face communication in the Spanish language. Students should continue to refine their knowledge and understanding of the Spanish language and culture. **This course satisfies an elective credit for graduation.**

## **Spanish IV**

**1 Credit Prerequisite: Minimum average of 80 for Spanish III**

**Course Code 160936**

**Spanish IV** is designed to enable and inspire students to augment their language skills for use in real-life applications in a global community. Students should continue to refine their knowledge and understanding of the Spanish language and culture. **This course satisfies an elective credit for graduation.**

# HEALTH, SAFETY, AND PHYSICAL EDUCATION

## Comprehensive Health (Health)

**½ Credit Prerequisites: None**

**Course Code 340133**

**Comprehensive health** provides the knowledge and skills the students needs to obtain, interpret, and apply basic health information to their daily lives to enhance their individual health. **This course is a requirement for graduation.**

## Drivers Education

**½ Credit Prerequisite: Priority of placement is based on grade classification**

**Course Code 340151**

**Driver Education** is a course that has classroom instruction, simulated driving, and behind-the-wheel driving instruction with dual-control driving vehicles. This course is offered in conjunction with Safety Education. **This course satisfies an elective ½ credit for graduation.**

## Drug Education

**½ Credit Prerequisite: None**

**Course Code 340142**

**Drug Education**, a semester course, provides current, accurate facts about legal and illegal drugs. Students learn the negative impact that drug use can have on health, relationships, education, and career. Positive decision- making is encouraged so that each student can enjoy the best experience life can offer. **This course satisfies an elective ½ credit for graduation.**

## Safety Education

**½ Credit Prerequisite: Enrollment in the Driver Education Course Simultaneously**

**Course Code 341081**

**Safety Education** is a course designed to help students understand how safety relates to healthful living. Opportunities are provided for students to expand their vocabulary in all areas of safety. First Aid will be explained during this course. This also deals with recreational safety, job safety, home safety, and automobile safety. This course is offered in conjunction with Drivers Education. **This course satisfies an elective ½ credit for graduation.**

## Advanced Physical Education

**1 Credit Prerequisite: Tryouts/Coach's Approval**

**Course Code 340113**

**Physical Education** includes participation in competitive athletics; football, basketball, and baseball, within the class and the basic skills outlined in the State Curriculum Program. This course may be taken for one semester or the entire year. **This course satisfies the P.E. requirement for graduation for all entering freshmen of 2008-2009 and thereafter.**

## **Physical Education/9<sup>th</sup>**

**½ Credit Prerequisite: None**

**Course Code 340113**

**Physical Education/9<sup>th</sup>** is designed as a daily instructional program that includes a minimum of six themes: team, dual and individual sports, rhythms/dance, aquatics, fitness activities and gymnastics. Introduction to and participation in game type activities should be emphasized as opposed to skill mastery. The application of motor skills in instructor supervised game activities will help students learn and apply the social skills (i.e., cooperation, fair play, playing by the rules, etc.) necessary to function appropriately in society. Physical education may also include non-traditional activities. The program should allow students opportunities to practice and apply a range of motor skills in physical activities that emphasize the social skills associated with competition. Personal fitness assessment should be an integral part of a quality program. **For entering freshmen of 2008-2009, and thereafter, this is a requirement for graduation.**

## **Band (Marching)**

**1 Credit Prerequisite: Director's approval by audition Course Code 509901**

**Band** course requirements include membership in the marching band first semester and concert band second semester. The HHS band is open to any student who is interested in developing his/her interest in marching band, concert band, and stage band. The band keeps a busy performance schedule, which includes appearances in the community, school and throughout the state and region. The band A is the marching portion of the band season (first semester). **This marching band meets the P.E. requirement for graduation for entering freshmen of 2008-2009 and thereafter.**

# JOURNALISM

## **Journalism/Annual Staff**

**1 Credit per Semester Prerequisite: Instructor approval**

**Course Code 090412**

**Journalism/ Annual Staff** is a course commonly called the yearbook production staff. This course is designed as a lab where students put into practice the skills of journalistic writing, design, desktop publishing, photography, and video production. The students work as a production team to publish the history of the year by producing a hardbound yearbook. **This course satisfies an elective credit for graduation.**

# MATHEMATICS

## Transition to Algebra

**1 Credit Prerequisite: Pre Algebra 8<sup>th</sup> Grade**

**Course Code 270471**

**Transition to Algebra** is designed to give students an additional opportunity to develop foundational skills required to be successful in Algebra I. Students will explore algebraic and geometric concepts to build a stronger foundation of basic skills. Explorations will include physical models, data, graphs, and other mathematical representations of everyday life. **This course satisfies one math credit for graduation for freshmen entering 2008-2009 and thereafter.**

## Compensatory Math Year Long

**1 Credit Prerequisite: Pre Algebra 8<sup>th</sup> grade or Transitional Algebra**

**Course Code 320133**

**Compensatory Math Year Long** provides a foundation in the language, basic skills, and concepts of Algebra. Topics include properties and classification of real numbers, algebraic expressions, linear equations, functions, polynomials, factoring, real world applications, inequalities, graphing, and the use of graphing calculators. This course is offered as an accompaniment to Algebra I. **This course satisfies an elective credit for graduation.**

## Algebra I

**1 Credit Prerequisite: A in 8<sup>th</sup> grade Pre-Algebra/Transitional Algebra with Placement Test**

**Course Code 270404**

**Algebra I** provides a foundation in the language, basic skills, and concepts of Algebra. Topics include properties and classification of real numbers, algebraic expressions, linear equations, functions, polynomials, factoring, real world applications, inequalities, graphing, and the use of graphing calculators. **This course and the Subject Area Test are required for graduation.**

## Geometry

**1 Credit Prerequisite: Algebra I**

**Course Code 270408**

**Geometry** is the development of a logical mathematical system from a set of undefined terms, definitions, postulates, theorems, and corollaries. Topics include special relationships among points, lines, and planes; angle relationships; triangle congruence and inequality; area of polygons; segments and angles in circles; and area and volume of two-dimensional and three-dimensional figures. **This course is required for graduation.**

## Geometry Honors

**1 Credit Prerequisite: A or B in Algebra I**

**Course Code 270408**

**Geometry Honors** is the development of a logical mathematical system from a set of undefined terms, definitions, postulates, theorems, and corollaries. Topics include special relationships among points, lines, and planes; angle relationships; triangle congruence

and inequality; area of polygons; segments and angles in circles; and area and volume of two-dimensional and three-dimensional figures with added in depth analysis of each topic. **This course satisfies the Geometry requirement for graduation.**

## **Algebra II**

**1 Credit Prerequisite: Geometry**

**Course Code 270405**

**Algebra II** is a continuation and extension of the skills developed in Algebra I. Topics include linear equations, relations and functions, polynomials, rational expressions and equations, radicals, quadratic equations, systems of linear equations, complex numbers, matrices, conic sections, logarithms, graphing, and applications to real world problems. **This course satisfies one credit of the upper level math required for graduation.**

## **Algebra II Honors**

**1 Credit Prerequisite: A or B in Geometry Honors with Teacher Recommendation**

**Course Code 270405**

**Algebra II** is a continuation and extension of the skills developed in Algebra I. Topics include linear equations, relations and functions, polynomials, rational expressions and equations, radicals, quadratic equations, systems of linear equations, complex numbers, matrices, conic sections, logarithms, graphing, and applications to real world problems with added in depth study of each topic. **This course satisfies one credit of the upper level math required for graduation.**

## **Trigonometry**

**½ Credit Prerequisite: Algebra II**

**Course Code 270411**

**Trigonometry** builds on a well-developed geometry and algebra background to explore the study of unit circles and triangles. Computations with complex numbers are extended. Trigonometric functions, their properties, and graphs are analyzed and studied in the context of real and complex numbers. Proofs should include a variety of techniques and sophisticated reasoning should be applied to verbal justifications. This course is offered in conjunction with Pre Calculus. **This course satisfies ½ credit of the upper level math required for graduation.**

## **Pre-Calculus**

**½ Credit Prerequisite: Trigonometry**

**Course Code 270416**

**Pre-Calculus** is a course designed for college-bound students as a prerequisite to calculus. This course covers those skills and objectives necessary for success in calculus. Topics of study include sequences and series, functions, and higher order polynomials. Polynomial functions provide the context for higher-order investigations. Topics are addressed from a numeric, graphical, and analytical perspective. Technology is to be used to enhance presentation and understanding of concepts. This course is offered in conjunction with Trigonometry. **This course satisfies ½ credit of the upper level math required for graduation.**

## **Calculus A.B., Advanced Placement**

**1 Credit Prerequisite: Pre –calculus**

**Course Code 279908**

**AP Calculus**, designed to be the equivalent of a college level course, is the study of the mathematics of change. The major focus is on differential and integral calculus.

Preparation includes a high level of algebra, geometry, trigonometry, complex numbers, and elementary functions. This study in calculus will include limits, infinity, derivatives, continuity, integration, application, transcendental function, and plane analytic geometry. Students have the option of taking the AP test with the possibility of earning college credit. This course is offered in conjunction with AP Physics (C) and also as a stand alone AP course. **This course satisfies one credit of the upper level math requirement for graduation.**

## **ACT Prep I**

**1 Credit Prerequisite: None**

**Course Code 110216**

**ACT Prep** is a preparatory course for the ACT college entrance test. This is a hands-on learning based test practice emphasizing Language, Science, and Math skills. **This course satisfies an elective credit for graduation.**

## **PSAT Prep I**

**1 Credit Prerequisite: Top 15% on PSAT in 9<sup>th</sup> grade. Course Code 110216**

**PSAT Prep** is a preparatory course for the PSAT college entrance test and the national merit semi finalist qualifications. This is a hands-on learning based test practice emphasizing Language, Science, and Math skills. **This course is offered to sophomores only. This course satisfies an elective credit for graduation.**

## **ACT Prep II**

**1 Credit Prerequisite: Act Prep I**

**Course Code 110221**

**ACT** is a preparatory course for the ACT college entrance tests. This is a hands-on learning based test practice emphasizing Language, Science, and Math skills. **This course satisfies an elective credit for graduation.**

## **PSAT Prep II**

**1 Credit Prerequisite: PSAT Prep I.**

**Course Code 110216**

**PSAT Prep** is a preparatory course for the PSAT college entrance test and the national merit semi finalist qualifications. This is a hands-on learning based test practice emphasizing Language, Science, and Math skills. **This course is offered to juniors only. This course satisfies an elective credit for graduation.**

## **Introduction To Engineering**

**½ Credit Prerequisite: None**

**Course Code 270245**

Introduction to Engineering is a unique projects-based course designed to give students an opportunity to evaluate their interest in engineering. Not only will students learn about what engineers do, they will also understand the differences in various types of engineering professions. Focus is given to civil, mechanical, electrical, chemical, and

geological engineering, as well as computer science. The highly emphasized problem-solving skills promoted in this course should be useful to both the engineering and non-engineering bound students. **This course serves as an elective for graduation**

# MILITARY SCIENCE

## JROTC I

**1 or 2 credits per year Prerequisites: None**

**Course Code 280311**

JROTC introduces the student to the JROTC Program with instruction in leadership development, drill, weapons safety and marksmanship, physical fitness, hygiene and first aid, map reading, organization, methods of instruction, and other basic military subjects.

**This course satisfies an elective credit for graduation.**

## JROTC II

**1 or 2 credits per year Prerequisites: None**

**Course Code 280312**

JROTC introduces the student to the JROTC Program with instruction in leadership development, drill, weapons safety and marksmanship, physical fitness, hygiene and first aid, map reading, organization, methods of instruction, and other basic military subjects.

**This course satisfies an elective credit for graduation.**

## JROTC III

**1 or 2 credits per year Prerequisites: None**

**Course Code 280313**

JROTC introduces the student to the JROTC Program with instruction in leadership development, drill, weapons safety and marksmanship, physical fitness, hygiene and first aid, map reading, organization, methods of instruction, and other basic military subjects.

**This course satisfies an elective credit for graduation.**

## JROTC IV

**1 or 2 credits per year Prerequisites: None**

**Course Code 280314**

JROTC introduces the student to the JROTC Program with instruction in leadership development, drill, weapons safety and marksmanship, physical fitness, hygiene and first aid, map reading, organization, methods of instruction, and other basic military subjects.

**This course satisfies an elective credit for graduation.**

# ORAL COMMUNICATIONS

## Oral Communications

**1 Credit Prerequisite: None**

**Course Code 231011**

**The Oral Communications** course builds important communication skills that will enhance all aspects of the individual's life. This course, for one Carnegie unit credit, includes instruction in how to acquire, analyze, and evaluate information in order to make decisions and establish satisfying relationships. Skill in oral communication helps the individual to think logically, clearly, and creatively. It also contributes to the student's understanding of himself and his management of relationships. The oral communication course is designed to help a student see himself as a whole person with a proper understanding of himself as a communicator as both a source and a receiver. **This course satisfies an elective credit for graduation.**

## Public Speaking

**½ Credit Prerequisite: None**

**Course Code 231013**

**Public Speaking** is a course that 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. Skill in public speaking helps the individual to think logically, clearly, and creatively. It also contributes to the student's understanding of himself and his management of relationships. This oral communication course is designed to help a student see himself as a whole person with a proper understanding of himself as a communicator as both a source and a receiver. **This course satisfies an elective ½ credit for graduation.**

## SCIENCE

### **Introduction to Biology**

**1 Credit Prerequisite: None**

**Course Code 260128**

**Introduction to Biology** is a prerequisite to Biology I which includes scientific problem solving, research, experimental design, laboratory safety, measurement, graphing, characteristics of life, cell structure and function, energy transfer in biological systems, genetics, and diversity of life. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. **This course satisfies 1 credit of science required for graduation.**

### **Introduction to Biology Honors**

**1 Credit Prerequisite: Upper 15% on 8<sup>th</sup> Grade State Science Test**

**Course Code 260128**

**Introduction to Biology Honors** is an advanced course which is a prerequisite to Biology I which includes scientific problem solving, research, experimental design, laboratory safety, measurement, graphing, characteristics of life, cell structure and function, energy transfer in biological systems, genetics, and diversity of life. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. This course will be an in depth study of the subject matter. **This course satisfies 1 credit of science required for graduation.**

### **Environmental Science**

**½ Credit Prerequisite: 8<sup>th</sup> grade Science**

**Course Code 260611**

**Environmental Science** is a laboratory-based or field-based course that explores ways in which the environment shapes living communities. Interactions of organisms with their environment should be emphasized along with the impact of human activities on the physical and biological systems of the Earth. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. This course is offered in conjunction with Environmental Science Field Experience. **This course satisfies ½ credit of science required for graduation.**

### **Environmental Science Field Experience**

**½ Credit Prerequisite: Environmental Science**

**Course Code 269998**

**Environmental Science Field Study** is a field-based course that explores ways in which the environment shapes living communities. Interactions of organisms with their environment should be emphasized along with the impact of human activities on the physical and biological systems of the Earth. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. This course is offered in conjunction with Environmental Science. **This course satisfies ½ credit of science required for graduation.**

## **Biology I**

**1 Credit Prerequisite: Introduction to Biology**

**Course Code 260131**

**Biology I** is a laboratory-based course designed to study living organisms and their physical environments. Students should apply scientific methods of inquiry and research in the examination of the chemical basis of life, cell structure, function and reproduction, energy, natural selection and diversity, and ecology. Laboratory activities, the use of technology, and the effective communication of results through various methods are integral components of this course. **This course and the Subject Area Test are required for graduation.**

## **Biology I Honors**

**1 Credit Prerequisite: Introduction to Biology Honors/A or B in Introduction to Biology with teacher recommendation**

**Course Code 260131**

**Biology I Honors** is a laboratory-based course designed to study living organisms and their physical environments. Students should apply scientific methods of inquiry and research in the examination of the chemical basis of life, cell structure, function and reproduction, energy, natural selection and diversity, and ecology. Laboratory activities, the use of technology, and the effective communication of results through various methods are integral components of this course. This course offers an in depth study of the subject matter. **This course satisfies the Biology I graduation requirement and the Subject Area Test is required also.**

## **Biology I AP**

**1 Credit Prerequisite: Introduction to Biology Honors** **Course Code 260143**

**Biology I AP** designed to be the equivalent of a college biology course. This is a laboratory-based course designed to study living organisms and their physical environments. Students should apply scientific methods of inquiry and research in the examination of the chemical basis of life, cell structure, function and reproduction, energy, natural selection and diversity, and ecology. Laboratory activities, the use of technology, and the effective communication of results through various methods are integral components of this course. Students have the option of taking the AP exam for the possibility of college credit. **This course satisfies the Biology I requirement for graduation and the Subject Area Test is required also.**

## **Aerospace Studies**

**½ Credit Prerequisites: None**

**Course Code 280111**

**Aerospace Studies** provides opportunities for students to develop and communicate an understanding of aerodynamics through lab-based activities, mathematical expressions, and concept exploration. Concepts covered in this course include aerodynamics, instrumentation, aircraft's propulsion, navigation, and history of flight. Laboratory activities allow students to observe and analyze aerodynamic situations as they relate to physical laws and concepts. Research, the use of technology, and the effective communication of results through various methods are integral components of this

course. This course is offered in conjunction with Astronomy. **This course satisfies ½ credit of a science requirement for graduation.**

## **Astronomy**

**½ Credit Prerequisites: None**

**Course Code 400211**

**Astronomy** will provide opportunities for students to develop and communicate an understanding of astronomy through lab-based activities, mathematical expressions, and concept exploration. Concepts covered in this course include history of astronomy, technology and instruments, Kepler's and Newton's Laws, celestial bodies, and other components of the universe. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. This course is offered in conjunction with Aerospace. **This course satisfies ½ credit of a science requirement for graduation.**

## **Earth and Space Science**

**1 Credit Prerequisites: None**

**Course Code 260629**

**Earth and Space 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.

Laboratory activities, the use of technology, and the effective communication of results through various methods are integral components of this course. **This course satisfies 1 credit of science required for graduation.**

## **Genetics**

**½ Credit Prerequisite: Minimum of 80 in Biology I**

**Course Code 260613**

**Genetics** is a laboratory-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. This course is offered in conjunction with Microbiology. **This course satisfies ½ credit of an upper level science required for graduation.**

## **Human Anatomy and Physiology**

**1 Credit Prerequisite: Biology I or Honors Biology**

**Course Code 260751**

**Human Anatomy and Physiology**, a laboratory-based course that investigates the structure and function of the human body. Topics covered include the basic organization of the body, biochemical composition, and major body systems along with the impact of diseases on certain systems. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. A large animal dissection lab component is required. **This course satisfies 1 credit of an upper level science required for graduation.**

## **Marine and Aquatic Science**

**½ Credit Prerequisite: Biology I**

**Course Code 260625**

**Marine and Aquatic Science** investigates the characteristics of an aquatic environment and the interactions of aquatic organisms with that environment. The characteristics of aquatic ecosystems along with aquatic resources will also be examined. This is taken in conjunction with Marine and Aquatic Science Field Experience. **This course satisfies ½ credit of an upper level science required for graduation.**

## **Marine and Aquatic Science Field Experience**

**½ Credit Prerequisite: Marine and Aquatic Science**      **Course Code 269998**

**Marine and Aquatic Science Field Experience** is a laboratory-based course that investigates the causes and effects of tides and erosion. Major areas of study include plate tectonics; formation of dunes, reefs, barrier/volcanic islands, and coastal/flood plains; characteristics of planktonic, nektonic, and benthic organisms; sources of pollution, in aquatic environments; and various careers related to aquatic science. This course is offered in conjunctions with Marine and Aquatic Science. **This course satisfies ½ credit of an upper level science required for graduation.**

## **Microbiology**

**½ Credit Prerequisites: Minimum average of 80 in Biology I**

**Course Code 260501**

**Microbiology** is a laboratory-based course that involves investigating microorganisms and the various roles they play in the living world. Topics explored in this class include identifying common microbes, culturing and staining microorganisms, exploring host-microbe relationships and disease processes, and researching microbiology used in industry. Laboratory work involving microscopic investigations and aseptic techniques are emphasized in this course as well as critical thinking, problem solving, and research. This course is offered in conjunction with Genetics. **This course satisfies ½ credit of an upper level science required for graduation.**

## **Zoology**

**½ Credit Prerequisite: Minimum average of 80 in Biology I**

**Course Code 260701**

**Zoology** is an advanced laboratory-based course that surveys the nine major phyla of the Kingdom Animalia. Morphology, taxonomy, anatomy, and physiology should be investigated. Comparative studies may be addressed during laboratory observations and dissections. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. This course is offered in conjunction with Zoology Field Experience. **This course satisfies ½ credit of an upper level science required for graduation.**

## **Zoology Field Experience**

**½ Credit Prerequisite: Zoology**

**Course Code 269998**

**Zoology Field Experience** is a science that compares and contrasts body structures of animals. During the semester anatomic structures of various vertebrate and invertebrates will be studied. It will include both lecture and extensive laboratory work. Included will be dissections of invertebrates including roundworms, earthworms, clams, and starfish. Vertebrates to be dissected will be the shark, fish, bird, turtle, frog, and rabbit. Various projects will be completed including the exposing and mounting of an animal skeleton and the collecting and preserving of specimens. This course is offered in conjunction with Zoology. **This course satisfies ½ credit of an upper level science required for graduation.**

## **Physical Science**

**1 Credit Prerequisite: Algebra I**

**Course Code 400700**

**Physical Science** 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. Laboratory activities, the use of technology, and the effective communication of results through various methods are integral components of this course. This course must be taken before Chemistry I. **This course satisfies 1 credit of an upper level science required for graduation.**

## **Physical Science (Honors)**

**1 Credit Prerequisite: Algebra I 8<sup>th</sup> Grade/ 80 or above Algebra I 9<sup>th</sup> Grade or teacher recommendation**

**Course Code 400700**

**Physical Science** 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. Laboratory activities, the use of technology, and the effective communication of results through various methods are integral components of this course. This course is an in depth study of the course content. This course must be taken before Chemistry I (Honors). **This course satisfies 1 credit of an upper level science required for graduation.**

## **Chemistry I**

**1 Credit Prerequisites: For Classes of 2010 and 2011 Algebra II and for the class of 2012 and thereafter Physical Science**

**Course Code 400521**

**Chemistry I** provides opportunities for students to develop and communicate an understanding of structure, physical and chemical properties, and chemical change. Concepts covered in this course include properties of matter, measurement and use of the International System of Measurement applied to mathematical operations, atomic theory, bonding, periodicity, nomenclature, equations and reactions, stoichiometry of aqueous solutions, thermodynamics, kinetics, equilibrium, oxidation-reduction and electron

chemistry, nuclear chemistry, and organic chemistry. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. **This course satisfies 1 credit of an upper level science required for graduation.**

## **Chemistry I Honors**

**1 Credit Prerequisite: For the classes of 2010 and 2011 Algebra II Honors and for the class of 2012 and thereafter Physical Science Honors or a 90 in Physical Science with teacher recommendation.**

**Course Code 400521**

**Chemistry I** provides opportunities for students to develop and communicate an understanding of structure, physical and chemical properties, and chemical change. Concepts covered in this course include properties of matter, measurement and use of the International System of Measurement applied to mathematical operations, atomic theory, bonding, periodicity, nomenclature, equations and reactions, stoichiometry of aqueous solutions, thermodynamics, kinetics, equilibrium, oxidation-reduction and electron chemistry, nuclear chemistry, and organic chemistry. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. This course is an in depth study of the course content. **This course satisfies 1 credit of an upper level science required for graduation.**

## **Chemistry Advanced Placement**

**1 Credit Prerequisites: 80 or above in Physical Science Honors and/or teacher recommendation.**

**Course Code 400523**

**Chemistry AP** is a course taught on an introductory college course level. Chemistry AP provides opportunities for students to develop and communicate an understanding of structure, physical and chemical properties, and chemical change. Concepts covered in this course include properties of matter, measurement and use of the International System of Measurement applied to mathematical operations, atomic theory, bonding, periodicity, nomenclature, equations and reactions, stoichiometry of aqueous solutions, thermodynamics, kinetics, equilibrium, oxidation-reduction and electron chemistry, nuclear chemistry, and organic chemistry. Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. The student will have the option to take the AP exam and possibly earn college credit. **This course satisfies 1 credit of an upper level science required for graduation.**

## **Organic Chemistry**

**½ Credit Prerequisites: Chemistry I**

**Course Code 400531**

**Organic Chemistry** provides opportunities for students to develop and communicate an understanding of the structure, nomenclature, reactions and uses of organic compounds, including polymeric materials. Laboratory experiences should allow the student to manipulate compounds, observe change, collect and analyze data, and draw conclusions.

Laboratory activities, research, the use of technology, and the effective communication of results through various methods are integral components of this course. This course is offered in conjunction with Organic Chemistry Field Experience. **This course satisfies ½ credit of an upper level science required for graduation.**

## **Organic Chemistry Field Experience**

**½ Credit Prerequisites: Organic Chemistry**

**Course Code 269998**

**Organic Chemistry Field Experience** is a continuation of the study began in Organic Chemistry with more emphasis on the laboratory experiences for a hands-on working environment for the student to apply the concepts of Organic Chemistry. This course is offered in conjunction with Organic Chemistry. **This course satisfies ½ credit of an upper level science required for graduation.**

## **Physics I**

**1 Credit Prerequisites: Algebra II or Honors Geometry**

**Course Code 400821**

**Physics I** 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. Physics I is a lab based study of the physical interactions of macroscopic objects. High-level mathematical skills are employed throughout the course. One and two-dimensional motion, vectors operations, Newton's laws, force applications, frictional effects, work, mechanical energy and power will also be studied. **This course satisfies 1 credit of an upper level science required for graduation.**

## **Physics II**

**1 Credit Prerequisites: Physics I**

**Course Code 400822**

**Physics II** will provide 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 work will allow students to observe and analyze physical situations as they relate to physical laws and concepts. **This course satisfies 1 credit of an upper level science required for graduation.**

## **Physics (B) AP**

**1 Credit Prerequisites: Physics I**

**Course Code 400823**

**Physics AP** is an advanced placement course that explores topics of modern physics, electricity and magnetism, electronics, optics and wave motion. The demand of the course will be equivalent to those of an introductory college course. AP Physics (B) is a continuation of physics I with an emphasis in covering the topics from the AP Physics

(B) exam. The AP Physics (B) exam is a broad ranged algebra-based exam covering the topics covered in Both Physics I and AP Physics (B). Topics covered in AP Physics (B) include momentum, collisions, rotational motion, rotational equilibrium, gravity, waves, sound, optics and thermodynamics. Students have the option of taking the AP exam with the possibility of earning college credit. **This course satisfies 1 credit of an upper level science required for graduation.**

## **Physics (C) AP**

**1 Credits Prerequisite: AP Physics (B)/Physics II and AP Calculus**

**Course Code 400841**

**Physics (C) AP** is an advanced placement course that explores topics of electric fields, electric forces, electrical energy, capacitance, electrical current, resistance, magnetism, induction, and alternating currents. Students have the option of taking the AP exam with the possibility of earning college credit. **This course satisfies 1 credit of an upper level science required for graduation.**

## **Integrated AP Physics (C) with AP Calculus**

**2Credits Prerequisite: AP Physics (B)/Physics II and Trig/Pre Calculus**

**Course Code 400841/279908**

This is a course that integrates Calculus based AP Physics with AP Calculus. The emphasis of the course is covering the topics from both the AP Physics (C) exam and the AP Calculus exam. The course is a two semester course with the student receiving credit in both AP Physics (C) and AP Calculus at the end of the second semester. Topics covered include electrical fields, electric forces,

## **SOCIAL STUDIES**

### **Introduction to World Geography**

**½ Credit Prerequisite: None**

**Course Code 450704**

**Introduction to World Geography** is designed to provide students with the skills to ask geographical questions, acquire geographical information, arrange geographical information, analyze geographical information, and answer geographical questions.

Students will master these skills by studying the six (6) essential elements of geographical content: (1) the world in spatial terms, (2) places and regions, (3) physical systems, (4) human systems, (5) environment and society, and (6) the uses of geography. The course of study will address the skills and elements by examining Africa, Antarctica, Asia, Australia and Oceania, Europe, Middle America, North America, and South America. This course is offered in conjunction with Mississippi Studies. **This course is required for graduation.**

### **World Geography Human Advanced Placement**

**½ Credit Prerequisite: 90 or above in Intro to World Geography and meet AP selection requirements**

**Course Code 450715**

**World Geography Human AP** is a course taught on a level of an introductory college course and is designed to provide students with the skills to ask geographical questions, acquire geographical information, arrange geographical information, analyze geographical information, and answer geographical questions. Students will master these skills by studying the six (6) essential elements of geographical content: (1) the world in spatial terms, (2) places and regions, (3) physical systems, (4) human systems, (5) environment and society, and (6) the uses of geography. The course of study will address the skills and elements by examining Africa, Antarctica, Asia, Australia and Oceania, Europe, Middle America, North America, and South America. This course is offered in conjunction with Mississippi Studies. **This course satisfies an elective ½ credit for graduation.**

### **Mississippi Studies**

**½ Credit Prerequisite: None**

**Course Code 450705**

**Mississippi Studies** is a course designed to foster appreciation for the state and its culture. The content will include the geographic, historic, economic, political, and social events that have contributed to the state's development. This course is offered in conjunction with Intro to World Geography/ World Geography AP. **This course is required for graduation.**

### **Biblical History of Ancient Middle East, 2000 B.C. – 100 A.D.**

**1 Credit Prerequisites: None**

**Course Code 459904**

**Biblical History of Ancient Middle East, 2000 B.C. – 100 A.D.** is designed to investigate the history, culture, geography, economics, and political systems of the

ancient Middle East. The development of Israel as a nation will also be examined. **This course satisfies an elective credit for graduation.**

## **Humanities I**

**½ Credit Prerequisite: None**

**Course Code 300411**

**Humanities I** the student will trace the formation and development of ancient and classical civilizations selected by the teacher and students. The interrelationships of world political and social structures will include the studies of history, literature, art, music, dance, drama, architecture, science and technology, geography, and government. This course is offered in conjunction with Law Related Education. **This course satisfies an elective ½ credit for graduation.**

## **Law-Related Education**

**½ Credit Prerequisite: None**

**Course Code 220101**

**Law-Related Education** The course is designed to study the importance of the law in students' lives. A greater awareness of local, state, and federal law will be gained by students. The roles, rights, and responsibilities of students will be discussed in the course. This course is offered in conjunction with Humanities I. **This course satisfies an elective ½ credit for graduation.**

## **Psychology**

**½ Credit Prerequisite: None**

**Course Code 420111**

**Psychology** focuses on the history, advances in technology, and both internal and external influences that affect human mental development. The student will learn the various elements of human behavioral development that emphasize concepts such as "self-esteem" and "self-responsibility." **This course satisfies an elective ½ credit for graduation.**

## **Sociology**

**½ Credit Prerequisite: None**

**Course Code 451121**

**Sociology** engages 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. **This course satisfies an elective ½ credit for graduation.**

## **World History**

**1 Credit Prerequisite: None**

**Course Code 450836**

**World History** focuses on development, connections, and global influences on the Eastern and Western hemispheres, especially from 1750 to the present. After establishing a background of the Classical world, topics covered include the Industrial Revolution, imperialism, unification, and the major world wars along with the Cold War and the crisis in the Middle East. Primary documents will be used, along with maps, charts, graphs, and political cartoons. **This course is required for graduation.**

## **World History Advanced Placement**

**1 Credit Prerequisite: Meet AP selections requirements**

**Course Code 450836**

**World History AP** is an in-depth focus on development, connections, and global influences on the Eastern and Western hemispheres, especially from 1750 to the present. After establishing a background of the Classical world, topics covered include the Industrial Revolution, imperialism, unification, and the major world wars along with the Cold War and the crisis in the Middle East. Primary documents will be used, along with maps, charts, graphs, and political cartoons. Students have the option of taking the AP test and possibly earning College Credit. **This course satisfied the World History requirement for graduation.**

## **U.S. History, 1877 to Present**

**1 Credit Prerequisite: None**

**Course Code 450811**

**U.S. History, 1877 to Present** will be the final step in the study of the nation's history. This course uses thematic units based on interwoven social, political, economic, and geographic changes in the United States from 1877 to the present. The course focuses on the role of the United States as it made the transition from a young nation to a leading nation in the global arena. The student will trace the history of the United States from Reconstruction's end to the modern period. **This course and the Subject Area Test are required for graduation.**

## **U.S. History, 1877 to Present Accelerated**

**1 Credit Prerequisite: Meet AP selections requirements Course Code 450811**

**U.S. History, 1877 to Present Accelerated** provides an opportunity for students to engage in an in-depth study of the final step in the study of the nation's history. This course uses thematic units based on interwoven social, political, economic, and geographic changes in the United States from 1877 to the present. The course focuses on the role of the United States as it made the transition from a young nation to a leading nation in the global arena. The student will trace the history of the United States from Reconstruction's end to the modern period. **This course satisfies U. S. History graduation requirement and the Subject Area Test is also required for graduation.**

## **U.S. History, 1877 to Present Advanced Placement**

**1 Credit Prerequisite:**

**Course Code 450814**

**U.S. History, Advanced Placement**, a college-level course, is a basic survey of U.S. History, beginning with colonization and continuing through current issues. Colleges may award college credit based upon a student's score on the U.S. History AP Exam. **This course, along with the Subject Area Test, satisfies the U.S. History requirement for graduation.**

## **U.S. Government**

**½ Credit Prerequisite: None**

**Course Code 451004**

**U.S. Government** provides an understanding of the foundations of the United States Government; provides an understanding of inalienable rights, civil rights, and civil liberties of an American; outlines the duties and responsibilities of the citizen in the United States political process; provides a knowledge base of the three branches of United States government; and relates the study of the U.S. government to current issues. This course is offered in conjunction with Economics. **This course is required for graduation.**

## **U.S. Government and Politics Advanced Placement**

**½ Credit Prerequisite: Meet AP requirements**

**Course Code 451008**

**U.S. Government AP** provides the opportunity for the student to engage in college level studies. The student will have an in-depth understanding of the foundations of the United States Government; provides an understanding of inalienable rights, civil rights, and civil liberties of an American; outlines the duties and responsibilities of the citizen in the United States political process; provides a knowledge base of the three branches of United States government; and relates the study of the U.S. government to current issues. This course is offered in conjunction with Economics. **This course satisfies the U. S. Government requirement for graduation.**

## **Economics**

**½ Credit Prerequisite: None**

**Course Code 450601**

**Economics** will develop an awareness of the relationship of world economic systems. The student will trace the American economic system and the impact of that system in a global setting. The student will develop an understanding of microeconomics and macroeconomics from individual finances to world economic organizations. **This course is required for graduation.**

# VOCATIONAL EDUCATION

## At Hancock High

### **Child Development**

**½ Credit Prerequisite: None**

**Course Code 200122**

**Child Development** is a course that develops skills related to physical, social, intellectual, and emotional development of the child. It includes instruction on considerations for parenthood, prenatal care, child growth and development, behavior management, needs of exceptional children, and career opportunities. This course is offered in conjunction with Family and Individual Health. **This course satisfies a ½ elective credit for graduation.**

### **Family and Individual Health**

**½ Credit Prerequisite: None**

**Course Code 200126**

**Family and Individual Health** is a course that develops skills related to personal, social, and mental health in today's society. It includes instruction on human growth and development, disease prevention and control, substance abuse and prevention, community and environmental health, and safety and first aid. This course is offered in conjunction with Child Development/Nutrition and Wellness. **This course or Comprehensive Health is required for graduation.**

### **Family Dynamics**

**½ Credit Prerequisite: None**

**Course Code 200121**

**Family Dynamics** is a course that develops skills related to personal, family, and social issues. It includes instruction in dimensions of adolescent development, family decisions and responsibilities, social decisions and responsibilities, and management of family systems in today's society. This course is offered in conjunction with Personal Development. **This course satisfies an elective ½ credit for graduation.**

### **Nutrition and Wellness**

**½ Credit Prerequisite: None**

**Course Code 200130**

**Nutrition and Wellness** is a course that develops skills related to proper nutrition and the concept of overall wellness. It includes instruction in nutrition, exercise and diet, healthy food choices, meal preparation, and components for a healthy lifestyle. This course is offered in conjunction with Family and Individual Health. **This course satisfies an elective ½ credit for graduation.**

### **Personal Development**

**½ Credit Prerequisite: None**

**Course Code 200120**

**Personal Development** is a course that develops skills related to positive interpersonal relationships within the family, peer groups, the workplace, and the community. It includes instruction on self discovery, personal decisions, relationships with others,

establishing goals, career survival skills, and clothing and nutritional sound choices. This course is offered in conjunction with Family Dynamics. **This course satisfies an elective ½ credit for graduation.**

## **Technology Discovery**

**1 Credit Prerequisite: None**

**Course Code 000253**

**Technology Discovery** is a state-of-the-art technology course for ninth graders which explores technology resources, processes, and systems and utilizes research, visualization, modeling, design, simulation, prototyping, journalizing, presentations, demonstrations, problem-solving techniques, role-playing, and testing. **This course is required for 9<sup>th</sup> grade students only and satisfies an elective 1 credit for graduation.**

# VOCATIONAL EDUCATION

## At the Vocational Technical Center

### **Allied Health I/Allied Health II**

**2 Credits per Year Prerequisite: Biology I**

**Course Codes 170690/170691**

**Allied Health I & II** is a two year vocational program.

The first year of the secondary Allied Health program introduces the student to careers available in the health field, basic anatomy and physiology, medical terminology and basic patient care skills. Upon completion of this first year introductory course, the student will be trained to be an entry-level general basic health care assistant and trained in CPR and first aid.

The emphasis of the second year is primarily to expose students to various health care choices, advanced skills in the various health occupations and the basic health care sciences. Students participate in career job shadowing in selected health care facilities. Upon completion of the second year advanced course, the student will be better able to make an informed choice of a health occupation that he/she plans to pursue.

This program includes a minimum of 100 hours of clinical-type experience over the two year period. This clinical-type experience can include tours of health care facilities, guest speakers, laboratory practice/demonstration in the classroom, and observation experiences in medical facilities. **Students who complete Allied Health I & II may count two of the credits earned in this course as two science credits toward graduation requirements. These courses also satisfy 2 elective credits for graduation per course.**

### **Automotive Service Technology I & II**

**2 Credits per year Prerequisite: None**

**Course Codes 470604/470607**

Automotive Service Technology is a two-year instructional program that prepares students for entry-level employment positions in the automotive repair and service industry or for entry into postsecondary Automotive Technology programs. Automotive Service Technology I includes instruction in the foundation skills related to safety, tools, and equipment usage, measurement, basic automotive service, brakes and electrical system service. Automotive Service Technology II provides students with foundation skills related to engine performance and steering and suspension systems.

The program is aligned with ASE/NATEF—2002 Automotive Program standards. The student will receive instruction and training in: Brakes, Electrical/Electronics, Engine Performance, and Steering and Suspension. **These courses satisfy 2 elective credits for graduation per course.**

### **Building Trades I & II**

**2 Credits per year Prerequisite: None**

**Course Code 460490/460491**

**Building Trades** is an instructional program that prepares an individual for employment or continued education in the occupations of Carpentry, Electrical Wiring, Masonry, or Plumbing. Building Trades I is a basic course teaching fundamentals of safety, tools, math, and basic carpentry, electrical, masonry, and plumbing skills. Building Trades II

provides advanced instruction and practical applications in each area. 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. These courses satisfy 2 elective credits for graduation per course.**

## **Business and Computer Technology (BCT) I & II**

**2 Credits per year Prerequisite: Keyboarding Course Code 470205/470206**

**Business and Computer Technology** is designed to educate, train, and provide guidance for secondary vocational students who seek to develop the knowledge, skills, and behavioral characteristics necessary for successful entry level employment in office occupations for the twenty-first century, and/or develop the knowledge and skills necessary for successful entry into a college business or computer-related business program (ex. – accounting, business administration, marketing, economics, fashion merchandising, banking and finance, international business, management, information systems management, tourism management, ect.). During the two year course, students cover operating systems, word processing, spread sheets, databases, personal finance, automated accounting, webpage design (HTML and Dreamweaver), business presentations (PowerPoint), public speaking, desktop publishing (Photoshop), beginning visual basic programming. **These courses satisfy 2 elective credits for graduation per course.**

## **Cooperative Education I & II**

**2 ½ Credits per year Prerequisite: Application Process/Employment**

**Program is for 11<sup>th</sup> and 12<sup>th</sup> grade students only Course Code 000204/000213**

**Cooperative Education** is a two year training program. It combines work readiness preparation, related occupational classroom instruction and work site training related to a student's occupational training program or clearly defined occupational objectives. Students must have their own transportation and complete at least 540 hours of worksite training each year. **These courses satisfy 2 ½ elective credits for graduation per course.**

## **Culinary and Related Foods Technology I & II**

**2 Credits per year Prerequisite: None Course Code 200401/200491**

**Culinary and Related Foods Technology I** is the first year of the program. Food preparation techniques covered in the first year are breakfast foods, dairy, sandwiches, salads, garnishes, fruits, and vegetables. Management skills emphasized are basic customer service, food safety and sanitation, workplace safety and security, culinary basics, equipment, nutrition, human resources, math, and controlling food cost.

**Culinary and Related Food Technology II** is a continuation of the emphasis on management and food preparation. Management topics include marketing, accounting, purchasing, inventory, and advanced customer service. Food preparation techniques

covered include potatoes, grains, desserts, baked goods, meat, poultry, seafood, stocks, sauces, and soups. An exploration of culinary history is also included in year two. This program of study was written to incorporate the National Restaurant Associations (NRA) ProStart<sup>®</sup> Learning Objectives. Any student who successfully completes this program and the mentoring requirements of the NRA can take the National ProStart<sup>®</sup> Certificate of Achievement exam. This is a national certification program recognized throughout the food service industry. **These courses satisfy 2 elective credits for graduation per course.**

## **General Drafting I & II**

**2 Credits per year Prerequisite: None**

**Course Code 480101/480190**

**General Drafting I** is the entry level course of the secondary General Drafting program. Students will gain foundation competencies related to orientation, safety, leadership and personal development, and drafting and CAD skills. **One of the four required mathematical units for graduation may be in Drafting if a student successfully completes Drafting I & II.**

**General Drafting II** is the exit level course of the secondary General Drafting program. Students will gain foundation competencies related to orientation, safety, advanced leadership and personal development, architectural drafting, and CAD skills. The architectural drafting section includes floor plans, elevations, foundations, and sections. **These courses satisfy 2 elective credits for graduation per course.**

## **Early Childhood Services and Education (ECE) I & II**

**2 Credits per year Prerequisite: None**

**Course Code 200201/200290**

**The Early Childhood Services and Education (ECE)** program provides training in the area of childcare and development. The first year of the program is designed as an introduction to the childcare profession focusing on child development, guidance and behavior, health and safety, and age-appropriate activities. A lab experience with the Hawk's Nest is included in this course. Upon completion of this first year, the student should be competent as an assistant caregiver.

The emphasis of the second year is primarily to provide advanced skills in the field of childcare and development. Students will gain advanced competencies related to professional childcare skills, safe and healthy learning environments, program planning, and management. An enhanced lab experience with the Hawk's Nest is included in this year. **These courses satisfy 2 elective credits for graduation per course.**

## **Hotel, Restaurant, and Tourism Management I & II**

**2 Credits per year Prerequisite: None**

**Course Codes 060711/060712**

**Hotel, Restaurant, and Tourism Management** 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. **These courses satisfy 2 elective credits for graduation per course.**

## **Metal Trades I & II**

**2 Credits per year Prerequisite: None**

**Course Codes 480590/482592**

**The Metal Trades program** is designed as a cluster program for preparation to enter the metal working trades. Metal Trades is designed to give the student training in three areas: (1) Bench Work where general machine care and upkeep, machine shop procedures, blue print reading, hand tool operations and metal trade symbols are taught; (2) Sheet Metal where shaping, cold forming, and pattern making for sheet metal ductwork and precision procedures are taught; and (3) Machine shop where the student is taught to become a machine tool and die maker. This curriculum has been aligned to modules in the Contren Learning program as endorsed by the National Center for Construction Education and Research (NCCER). Students who study this curriculum using the Contren Learning 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. These courses satisfy 2 elective credits for graduation per course.**

## **Technology Applications I & II**

**2 Credits per year Prerequisite: Algebra I**

**Course Codes 480202/480203**

**Technology Applications I** is a course designed to introduce students to Science, Technology, Engineering, and Mathematical concepts. Problems will be solved using 21<sup>st</sup> Century, technology, academic, and investigative skills. Applications of science, technology engineering, and mathematics will be demonstrated in technical communication technology, computer aided design and drafting technology, manufacturing (CAD/CAM) technology, fluid systems technology, thermal systems technology, electrical systems technology, and mechanical systems technology.

**Technology Applications II** will permit second year students to expand and deepen their knowledge related to Science, Technology, Engineering, and Mathematics skills. Students will apply concepts related to computer assembly technology, computer networking technology, computer programming technology, geographic information systems technology, programmable logic control technology, electronic control systems technology, and computer integrated manufacturing technology. **Students who complete Technology Applications I & II may count two of the credits earned in this course as two science credits toward graduation requirements. These courses satisfy 2 elective credits for graduation per course.**

## **Welding I & II**

**2 Credits per year Prerequisites: None**

**Course Codes 480508/480517**

**The Welding Theory and Applications curriculum** is designed to prepare the students for entry level employment in the field of welding and fabrication. Students in Welding I complete study in occupational orientation and safety, basic math, introduction to blueprints (welding symbols), hand and power tools, Oxy/Fuel operations, and shielded metal arc welding (SMAW). Students in Welding II complete study in occupational orientation and safety, advanced shielded metal arc welding (SMAW), semi-automatic arc welding [gas metal arc welding and flux-cored arc welding (GMAW/FCAW)], gas

tungsten arc welding (GTAW), carbon arc cutting principles and practices (CAC-A), plasma arc cutting (PAC), and employability skills.

The welding competencies required in this curriculum were developed to coincide with Contren Core/Welding I and II. This curriculum has been aligned to modules in the Contren Learning program as endorsed by the National Center for Construction Education and Research (NCCER). Students who study this curriculum using the Contren Learning 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. These courses satisfy 2 elective credits for graduation per course.**

