

MCS

Madison County High School Course Book



**MADISON COUNTY
SCHOOLS**

MARK OF EXCELLENCE

2016-2017

476 Highland Colony Parkway, Ridgeland, MS 39157

Greetings to all Madison County High School Students!

I am pleased to have this opportunity to remind you of important aspects of your educational career. The process of course selection is extremely crucial because it sets the foundation for your academic studies. At Madison County Schools, this process can be a demanding one due to the large number of course offerings on our schedule.

In addition to being important to you, your choices also impact administrative decisions concerning staff, classes, and schedules. The master schedule is set and staff is hired based upon numbers computed during pre-registration. It is important to remember that Madison County Schools have a No Drop Policy on scheduled classes. No change of schedules will be made except for administrative purposes.

Please make sure that you and your parents take the time to consider your choices carefully. As you choose, remember to review the graduation requirements and the college entrance requirements listed in this book. You should also focus on future considerations such as college choice, vocational pursuits, and career plans.

This book has been provided to serve as a useful guide as you make your selections. However, if you have any questions or need assistance, please feel free to contact the Office of Student Services located at your school.

Ronnie McGehee, Ph. D
Superintendent

ACADEMIC ENRICHMENT

ACT/SAT Test Preparation I

Course # 110216	½ Credit	Prerequisite: Instructor Recommendation
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Intense test preparation designed to increase ACT or SAT scores.

ACT/SAT Test Preparation II

Course # 110221	½ Credit	Prerequisite: ACT/SAT Test Preparation I or Instructor Recommendation
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Intense test preparation designed to increase ACT or SAT scores. A continuation of ACT/SAT I.

Compensatory Reading I

Course # 320141	½ Credit	Prerequisite: None
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Compensatory Reading I, the companion to English I, is a tutorial program designed for the students who needs specialized reading instruction adjusted to the needs of the student that does not perform satisfactorily with regular reading instruction. The course allows flexible adjustment of materials and methods for individual differences. The class meets on the alternate day of the corresponding English class.

Compensatory Reading II

Course # 320142	½ Credit	Prerequisite: None
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Compensatory Reading II should be an extension of the competence and objectives addressed in Compensatory Reading Course I, and should be designed to meet the needs of students who need further assistance upon their completion of Course I.

Compensatory Writing I

Course # 320145	½ Credit	Prerequisite: None
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Compensatory Writing I the companion to English II, 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. The class meets on the alternate day of a corresponding English class.

Compensatory Writing II

Course # 320146	½ Credit	Prerequisite: None
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Compensatory Writing II should be an extension of the competencies and objectives addressed in the Compensatory Writing, Course I and should be designed to meet the needs of students who need further assistance upon their completion of Course I.

Learning Strategies

Course # 230180	½ or 1 Credit	Prerequisite: None
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Learning Strategies helps students succeed in school by developing effective test-taking strategies, goal setting, and organizational skills and by improving reading comprehension, study habits, and note-taking skills.

ARTS

Art History, Advanced Placement

Course # 500743	1 Credit	Prerequisite: Must meet AP selection requirements
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Art History, Advanced Placement is intended to prepare students for the AP Art History Exam. The fall term covers art from Prehistoric man through the Early Medieval era. The spring term covers art from the Renaissance through the 21st century. There are several basic course objectives: (1) An emphasis is placed on visual literacy, that is, the ability to apply art historical methods to the students' visual environment, so that they can understand how images encode social ideologies. (2) The student will learn to suspend judgment when looking at works of art, developing critical thinking skills beyond cultural stereotypes. (3) Students will be encouraged not only to appreciate art from other cultures, but also to understand the aesthetic criteria of those cultures. (4) Students will learn how art mediates all types of human experiences. **Weighted 1.10**

Band

Course # 509901	1 Credit	Prerequisite: Director approval by audition
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Advanced Concert Band provides students with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Instruction is designed so that students are enabled to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Ensemble and solo activities are designed to develop elements of musicianship including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music, and (7) studying historically significant styles of literature.

Experiences include, but are not limited to, improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students also have opportunities to experience live performances by professionals during and outside of the school day. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities, outside of the school day, that support and extend learning in the classroom.

Band repertoire must be of the highest caliber. Mastery of advanced instrumental music technique must be evident. Areas of refinement consist of advanced techniques including, but not limited to: (1) intonation, (2) balance and blend, (3) breathing, (4) tone production, (5) tone quality, (6) technique, (7) rhythm, (8) sight-reading, and (9) critical listening skills. Evaluation of music and music performances is included. Students will be required to provide uniforms - tux and long dress - @ \$100.00

Ceramics I

Course # 500540	½ Credit	Prerequisite: None
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Ceramics I focuses on knowledge and skills in three-dimensional design with clay and/or other plastic media. Work will be limited primarily to three dimensional media, techniques, and processes.

Ceramics II

Course # 500541	½ Credit	Prerequisite: Ceramics I and Instructor Recommendation
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Ceramics II focuses on developing in-depth knowledge and skills in three-dimensional design with clay and/or other plastic media. Building on introductory level concepts and skills acquired in the prerequisite course, Ceramics I, students continue to increase their knowledge of wheel thrown and hand built production, critical analysis, history and culture, aesthetics, and connections among ceramic arts, other content areas, and everyday life. Work will be limited primarily to three dimensional media, techniques, and processes.

Drawing I

Course # 500330	½ Credit	Prerequisite: Visual Arts I
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Drawing I involved a broad range of drawing media, techniques, and processes. Students will continue to develop prior knowledge and skills in the creation and study of works of art and design. Work will encompass two-dimensional art forms rendered in wet and dry drawing media with an emphasis on working in black and white and an introduction to color techniques.

Drawing II

Course # 500331	½ Credit	Prerequisite: Drawing I and Instructor Recommendation
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Drawing II involves a broad range of drawing 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 Visual Arts Level I and Drawing I, 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 two-dimensional art forms rendered and wet and dry drawing media with an emphasis on working in color with a continuation of skill development in black and white processes.

High-Tech Video Production

Course # 500522	½ or 1 Credit	Prerequisite: Instructor Recommendation
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High-Tech Video Production explores the process of videotaping as an art form. Students will concentrate on creating, producing, taping, and critiquing of original and published video and film.

Music, Choral

Course # 500939	1 Credit	Prerequisite: Director approval by Audition
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Choral Music provides students experiences in listening to, analyzing, describing, creating, and evaluating music within the constraints of the choral rehearsal situation.

Music, Theory and Harmony/Literature

Course # 500952	½ Credit	Prerequisite: Must be enrolled in Choral Music or Band
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Music Theory is designed for the music student who is interested in pursuing a career in music. Beginning with a review of the fundamentals of musical notation, the course will include the study of chord structure, key signatures, complex rhythms and other music reading skills in preparation for college music theory.

Music, General

Course # 500971	1 Credit	Prerequisite: None
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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.

Painting I

Course # 500760	½ Credit	Prerequisite: Visual Arts II or Drawing I
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Painting I focuses on the creation and study of painting and continues the development of a body of work for inclusion in a portfolio. It involves a broad range of painting media, techniques, and processes. 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.

Painting II

Course # 500761	½ Credit	Prerequisite: Painting I and Instructor Recommendation
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Painting II focuses on advanced creation and study of painting and continues the development of a body of work for inclusion in a portfolio. It involves a broad range of painting media, techniques, and processes. Building on concepts and skills acquired in prerequisite courses—Visual Arts II, and III, or Painting I and Drawing—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 of work demonstrating accomplishment of Visual Arts I and II competencies.

Performing Arts – Special Course

Course # 509906	½ or 1 Credit	Prerequisite: Instructor Recommendation
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Performing Arts – Special Course is designed to provide students with a broad-based in-depth learning experience through independent study and increasingly demanding levels of analysis and practical application. Students will develop and produce original work and increase their level of expertise with the possible goal of specialized study at the university level and/or entry into a theatre career track.

Photography I

Course # 500610	½ Credit	Prerequisite: None
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Photography focuses on developing in-depth knowledge and skills in two-dimensional design with photographic media. Students will continue to increase their knowledge of design as applied to photographic works, critical analysis, history and culture, aesthetics, and connections among the photographic arts, other content areas, and everyday life. Work will be limited primarily to black and white media, techniques, and processes.

Photography II

Course # 500110	½ Credit	Prerequisite: Photography I and Instructor Recommendation
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Photography II focuses advanced topics in photography and is a continuation of Photography I.

Studio Art I

Course # 500739	1 Credit	Prerequisite: Visual Arts I
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Studio Art I is intended to address sculptural issues. Design involves purposeful decision making about using the elements and principles of art in an integrative way. In the 3-D Design Portfolio, students are asked to demonstrate their understanding of design principles as they relate to the integration of depth and space, volume and surface. The principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, and occupied/unoccupied space) can be articulated through the visual elements (mass, volume, color/light, form, plane, line, texture).

Studio Art, Advanced Placement

Course # 500741	1 Credit	Prerequisite: Art II, Instructor Recommendation and meet AP selection requirements.
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Studio Art Advanced Placement is an advanced art course designed primarily for the highly motivated student. Students are instructed on a college level. Colleges may award college credit for a student's score on the AP Art Portfolio. **Weighted 1.10**

Theatre I

Course # 500512	½ Credit	Prerequisite: None
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Theatre I emphasizes the student's recognition of theatre as an art form that encompasses all the arts and that is representative of life at all levels. Students will examine the correlation and development of theatre history, structure, literature, acting, production, and criticism. Students will experience the stimulation of creative thinking, problem solving, and goal setting. A heightened sense of responsibility will be developed through individual and cooperative work.

Theatre II

Course # 500513	½ Credit	Prerequisite: Theatre I
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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.

Theatre III

Course # 500515	1 Credit	Prerequisite: Theater II and Instructor Recommendation
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Theatre III is designed to enable students who are interested in theatre to continue exploring and perfecting their abilities at a higher level of proficiency. An introduction to the importance of ensemble and the notion of research to inform artistic decisions creates opportunities for exciting collaboration as well as individual creativity.

Theatre IV

Course # 500525	1 Credit	Prerequisite: Theater II and Instructor Recommendation
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Theatre IV is designed to provide students with a broad-based in-depth learning experience through independent study and increasingly demanding levels of analysis and practical application. Students will develop and produce original work and increase their level of expertise with the possible goal of specialized study at the university level and/or entry into a theatre career track.

Theater Production

Course # 500521	1 Credit	Prerequisite: Theatre III and Instructor Recommendation
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Theater Production is designed to provide students with specialized, in-depth instruction in theatre to meet the individual needs of advanced students, 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 a theatrical work. This course is designed for the students who have successfully completed Theatre I and Theatre II.

Visual Arts I

Course # 500704	½ Credit	Prerequisite: None
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Visual Arts I involves a broad range of media, techniques, and processes. Students will continue to develop prior knowledge and skills in the creation and study of works of art and design, building on concepts and skills acquired in the elementary and middle level courses. Work will encompass both two and three-dimensional art forms.

Visual Arts II

Course # 500705	½ Credit	Prerequisite: Visual Arts I or Eighth Grade Advanced Art
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Visual Arts II continues the development of knowledge and skills as well as the creation and study of works of art and design. Students will 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. Work will encompass both two-dimensional and three-dimensional media, techniques, and processes.

Visual Arts III

Course # 500706	½ or 1 Credit	Prerequisite: Visual Arts II
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Visual Arts 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. 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. Work will encompass both two and three-dimensional media, techniques, and processes.

Visual Arts IV

Course # 500707	½ or 1 Credit	Prerequisite: Visual Arts III
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Visual Arts IV focuses on the creation of a portfolio for use in the pursuit of higher education or career opportunities. Students will work at a sophisticated level applying their knowledge of production, critical analysis, history and culture, aesthetics, and connections among the visual arts, other content areas, and everyday life. Work will encompass two and three-dimensional media, techniques, and processes/

Visual Arts Individual Study

Course # 500114	½ or 1 Credit	Prerequisite: Portfolio and Instructor Recommendation
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Visual Arts Individual Study will be offered to students who have gained teacher approval based upon review of a portfolio of work. Although students will work independently while being mentored by the teacher, the student will attend a regularly scheduled visual arts class. Working at a sophisticated level, students will apply their knowledge of production, critical

analysis, history and culture, aesthetics, and connections among the visual arts, other content areas, and everyday life.

BUSINESS AND TECHNOLOGY PATHWAYS

Accounting Fundamentals

Course # 110610	1 Credit	Prerequisite: None
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Accounting Fundamentals introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of how accounting is used in business operations, as well as how accounting and accounting reports are used by managers, investors and other business stakeholders in their decision making processes. Spreadsheets and accounting software are utilized.

Business Finance

Course # 110730	1 Credit	Prerequisite: None
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Business Finance introduces the techniques of financial analysis with an emphasis on corporate finance. The concepts developed in this course form the foundation for subsequent business courses at the postsecondary level. The main topics covered include the time value of money and the net present value rule, capital budgeting decisions, uncertainty and the tradeoff between risk and return, and corporate financing and dividend policy decisions.

Business Fundamentals I

Course # 110720	1 Credit	Prerequisite: None
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Business Fundamentals I begins with an introduction to business and marketing fundamentals, communication and interpersonal skills, and professional development for continued education, training, and careers in business management. Major topics of study in this course are business and economics. Participation in student organizations is ongoing. Students will develop skills toward meeting requirements for the Microsoft Project Skill Standards for Microsoft Office Specialist Certification.

Business Law

Course # 070340	½ Credit	Prerequisite: None
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Business Law provides the basic foundations of law as it relates to business. The origin of the law, ethics, the structure of the court systems, procedural and employment law, and legislation that applies real and personal property are all studied within this course. Business Law will equip the student with a working knowledge of the law as it is applied to various legal situations that are encountered in personal and business situations.

Entrepreneurship

Course # 110640	1 Credit	Prerequisite: None
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Entrepreneurship introduces students to the rewards and risks of owning or operating a business enterprise. Emphasis is placed on the mastery of skills needed to plan, organize, manage, and finance a small business. Skills in communication, technical writing, mathematics, research, and problem-solving are reinforced as each student prepares his/her own business plan.

Freshman Focus

Course # 990002	1 Credit	Prerequisite: None
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Freshman Focus is an introduction to career pathways and career decision-making. The course was developed particularly to meet the needs of those schools participating in career academies. This introductory course includes content in self-development, career clusters, career pathways, college planning, financial planning, and presentation and research skills. At the conclusion of the course, students develop a six-year plan that will guide them in making decisions about high school courses, college courses, and future careers.

Graphic Design I

Course # 070333	½ Credit	Prerequisite: STEM
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Graphic Design I is designed to provide the student an introduction to various page layout and graphic editing programs such as Adobe InDesign, Illustrator, and Photoshop. Students will learn to consider standard design guidelines while developing their projects.

Graphic Design II

Course # 070334	½ Credit	Prerequisite: Graphic Design I
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Graphic Design II is a continuation of Graphic Design I. In this course, students will learn to use advanced features and techniques not covered in Graphic Design I. This course also incorporates more project assignments. Therefore, students are given a greater opportunity to produce original and creative work.

International Business

Course # 110670	1 Credit	Prerequisite: None
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International Business is designed to introduce students to basic business operations surrounding global trade. Competencies for this course focus on raising awareness of the interrelatedness of one country's political policies and economic practices on another; learning to improve international business relations through appropriate communication strategies; understanding the global business environment; exploring basic concepts underlying international finance, management, marketing, and trade relations; and identifying forms of business ownership and international business opportunities.

Introduction to Information Technology

Course # 110600	1 Credit	Prerequisite: None
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Introduction to Information Technology includes the foundation skills required for building computer systems. Program competencies are designed to prepare students for A+ certification by integrating certification skills throughout the course.

Management Essentials

Course # 110650	1 Credit	Prerequisite: Management Fundamentals
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Management Essentials focuses on business management and the development of an extensive business plan that encompass all areas of business, including operations and security, information, and applications, needed in order to operate a successful business. Students will continue to develop educational, career, and professional plans in the area of business management. Participation in student organizations is ongoing. Students will develop skills

toward meeting requirements for the Microsoft Project Skill Standards for Microsoft Office Specialist Certification.

Management Fundamentals

Course # 110690	1 Credit	Prerequisite: None
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Management Fundamentals focuses on business management and the development of an extensive business plan that encompasses all areas of business, including communication and procedures, needed in order to operate a successful business. Students will continue to develop educational, career, and professional plans in the area of business management. Participation in student organizations is ongoing. Students will develop skills toward meeting requirements for the Microsoft Project Skill Standards for Microsoft Office Specialist Certification.

Marketing Essentials

Course # 110650	1 Credit	Prerequisite: None
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Marketing Essentials focuses on the function of marketing in an organization by examining the essential elements of a marketing strategy: product, promotion, distribution, price, the effect of the business environment on marketing decisions, consumer behavior, identification of markers, and current issues in marketing.

Personal Finance

Course # 070128	½ Credit	Prerequisite: None
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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.

Sales and Distribution

Course # 110660	1 Credit	Prerequisite: Marketing Essentials
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Sales and Distribution is designed as a follow-up course to Marketing Essentials. This course includes units that cover Product Service Management, Distribution, Marketing Planning, International Marketing, Fashion Marketing, and Sports, Special Event, and Entertainment Marketing.

STEM

Course # 000273	1 Credit	Prerequisite: None
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Science, Technology, Engineering, and Mathematics (STEM) is an innovative instructional program that prepares students to engage in future academic and vocational courses of study in high school, community college and institutions of higher learning. Students in STEM Applications complete study in technology literacy, the design process, emerging technologies, computer-aided design, sustainable design and technology, power and energy, robotics simulation, financial and economic literacy, and workplace skills for the 21st century. The STEM Applications curriculum framework is built upon 21st Century Skills Standards, ACT College Readiness Standards, and the National Educational Technology Standards for Students. Note: *Required for Graduation.*

Web Design and Media Rich Content

Course # 110700	1 Credit	Prerequisite: Graphic Design I and II
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Web Design and Media Rich Content emphasizes real-world, hands-on practice. Content related to Web design, building a basic client web site, media rich content for Web design, and planning a digital narrative and creating a script will be offered to students.

CAREER AND TECHNICAL EDUCATION Courses taught at the Career and Technical Center

Automotive Service I

Course # 997000	2 Credits	Prerequisite: "C" average or above in previous Math and English course and "TABE reading score of 8.0 or higher"
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Automotive Service Fundamentals I, Brakes, and Introduction to Electrical/Electronic Systems course contains an introduction, safety, measurement, and tool/technical references content. It also contains an introduction to brake systems: disc brakes, drum brakes, and antilock brakes. This course also contains an introduction to electrical/electronic systems information and terminology. The Basic Electrical/Electronic Systems course contains electrical/electronic system theory, battery systems, starting systems, and charging systems.

Automotive Service II

Course # 997001	2 Credits	Prerequisite: Automotive Service I
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Automotive Service Fundamentals II, The Advanced Electrical/Electronic Systems course contains information on lighting systems, concepts of gauges, warning devices, driver information systems, horn system, wiper/washer system, and accessories system diagnostic repair.

Career Pathway Experience: Work-Based Learning

Course # 990001	2 Credits	Prerequisite: Completion of a two-year career and technical program – OR – clearly defined occupational objective as a junior Must complete an application, essay and interview
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Career Pathway Experience: Work-Based Learning is an educational program developed through a cooperative arrangement between the school and community employers to provide students an opportunity to alternate in-school academic and vocational instruction with entry-level employment in an occupational field. The student's total experience is planned, coordinated, and supervised by the school and the employer. Before a student is admitted to the program, he or she must have selected a specific job, related to his/her career goal, in which training is desired. The curriculum includes these units of instruction: directly-related instruction; orientation; health, safety, and first aid; career planning, work ethics, personal assessment, business etiquette, taxation, mathematics for the workplace, communication in the workplace, job acquisition, and technology in the workplace. The student is required to work a minimum of 15 hours a week at the assigned training station.

Career Pathway Experience: Internship

Course # 990001	½ or 1 or 2 Credits	Prerequisite: Completion of a two-year career and technical program – OR – clearly defined occupational objective as a junior Must complete an application, essay and interview
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Career Pathway Experience: Internship is an educational program developed through a cooperative arrangement between the school and community employers to provide students an opportunity to alternate in-school academic and vocational instruction with entry level employment in an occupational field. The student's total experience is planned, coordinated, and supervised by the school and the employer. Before a student is admitted to the program, he or she must have selected a specific job, related to his/her career goal, in which training is desired. The curriculum includes these units of instruction: directly related instruction; orientation; health, safety, and first aid; career planning, work ethics, personal assessment, business etiquette, taxation, mathematics for the workplace, communication in the workplace, job acquisition, and technology in the workplace. The student is required to work a minimum of 15 hours a week at the assigned training station.

Career Pathway Experience: School-Based Internship

Course # 990001	2 Credits	Prerequisite: Completion of a two-year career and technical program Must complete an application, essay and interview
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Career Pathway Experience: School-Based Internship is an educational program developed through a cooperative arrangement between the school and community employers to provide students an opportunity to alternate in-school academic and vocational instruction with entry-level employment in an occupational field. The student's total experience is planned, coordinated, and supervised by the school and the employer. Before a student is admitted to the program, he or she must have selected a specific job, related to his/her career goal, in which training is desired. The curriculum includes these units of instruction: directly-related instruction; orientation; health, safety, and first aid; career planning, work ethics, personal assessment, business etiquette, taxation, mathematics for the workplace, communication in the workplace, job acquisition, and technology in the workplace. The student is required to work a minimum of 15 hours a week at the assigned training station.

Construction I

Course # 993101	2 Credits	Prerequisite: "C" average or above in previous Math and English course
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Construction I introduces students to fundamentals of construction safety, tools, math, and blueprint reading and basic carpentry, electrical, masonry, and plumbing skills. Upon the completion of this course, students will have knowledge to complete the Contren Core Certification.

Construction II: Carpentry

Course # 993110	2 Credits	Prerequisite: Construction I
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Construction II: Carpentry course consists of an in-depth study of foundations; wall and ceiling framing; room framing; windows and doors; and stair layout. Upon the completion of this course, students will have the knowledge to complete the Contren Level I Certification.

Digital Media Technology I

Course # 994100	2 Credits	Prerequisite: STEM and Freshman Focus and Overall “B” average for HS course work
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Digital Media Technology I encompasses the foundation skills necessary in the digital media industry. Content such as safety, ethical issues and production, photography, graphic design, and print production will be offered to students. The Web Design and Media Rich Content portion of the course emphasizes real-world, hands-on practice. Content related to Web design, building a basic client Web site, media rich content for Web design, and planning a digital narrative and creating a script will be offered to students. Students will receive two Carnegie units upon completion of the course.

Digital Media Technology II

Course # 994101	2 Credits	Prerequisite: Digital Media Technology I
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Digital Media Technology II focuses on the process of video production and editing as well as career opportunities in audio and video technology. Another component of the course is the Directed Individual Project that is a culminating assignment that gives students the opportunity to produce a final video project that incorporates the skill and knowledge learned throughout the course, giving the students the chance to showcase what they have learned and accomplished. Also upon completion of this course, the students will have also put the finishing touches on a digital portfolio that is cumulative of their work throughout their study of Digital Media Technology.

Note: One of the two credits earned may count as an Art credit for graduation.

Engineering and Robotics I

Course # 994000	2 Credits	Prerequisite: “C” average or above in Algebra I
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Engineering and Robotics I teaches students the history of engineering and the careers associated with the field. The students will also learn the foundations and fundamentals of robotics, electronics, engineering and materials. This course also teaches technical writing, presenting, and project management. It also teaches students the engineering design process, the steps one follows for successful design planning. Students are also introduced to the advanced concepts of 3-D sketching and modeling with CAD software. This course also focuses on quality control and the benefits of engineering failure.

Engineering and Robotics II

Course # 994001	2 Credits	Prerequisite: Engineering and Robotics I
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Engineering and Robotics II is a comprehensive course that focuses on the four systems: electrical, fluid, mechanical, and thermal. It also introduces students to Computer Integrated Manufacturing, or how robotics and drafting work together to create products. This course teaches students the concepts of digital electronic control system technology, focusing on electronics, gates, and truth tables. Students will also learn valuable workforce readiness skills and participate in activities that deal with advanced concepts of programming robotic equipment.

Note: May count as two elective credits or two science credits for graduation. One of the two credits may count as Physics.

Health Science Core

Course # 995100	2 Credits	Prerequisite: "C" average or above in Biology I and previous Math and English course
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Health Science Core introduces students to careers available in the health field, basic anatomy and physiology, and basic patient care skills. Upon completion of this course, students will be trained to be entry-level general basic health-care assistants and trained in CPR and first aid. Students will be able to make an informed choice of a health occupation that they plan to pursue. This course offers 2 Carnegie units. Students who complete Health Sciences I may count one of the credits earned in this course as one science credit toward graduation requirements if they complete both years of the Health Sciences program.

Note: students that complete Health Science Core have satisfied the ½ Health graduation requirement. Students who are interested in Health CNA Option should enroll in Health Science Core in 11th grade and Health Science and Clinical Services CNA Option in 12th grade.

Healthcare and Clinical Services

Course # 995101	2 Credits	Prerequisite: Health Science Core
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Healthcare and Clinical Services course exposed to the theory and applied tasks related to careers within health care. This course covers topics such as human growth and development, health informatics, information technology, and therapeutic and rehabilitative services. Other topics include medical and emergency services, mental health, and pharmacological and nursing services.

Note: May count as two elective credits or two science credits for graduation.

Health and Clinical Services CNA Option

Course # 995101	2 Credits	Prerequisite: Health Science Core and 12 th Grade
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Health Science Services CNA (Certified Nursing Assistant) Option helps the student establish insight in the healthcare field. Students will be exposed to the theory and applied tasks related to careers within health care. This course covers topics such as human growth and development, health informatics, information technology, and therapeutic and rehabilitative services. Other topics include medical and emergency services, mental health, and pharmacological and nursing services.

Note: May count as two elective credits or two science credits for graduation.

Polymer Science I

Course # 994500	2 Credits	Prerequisite: C or Higher in Biology I
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Polymer Science I orients the students to the course and lab. During this course, students learn computer applications relevant to polymer science. They are also introduced to chemistry concepts and the structures and properties of polymers.

Polymer Science II

Course # 994501	2 Credits	Prerequisite: Polymer Science Technology I
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Polymer Science II teaches students the processing techniques associated with polymers as well as the methods and benefits of plastics recycling.

Note: May count as two elective credits or two Science credits for graduation. One of the two credits may count as Chemistry.

Simulation and Animation Design I

Course # 994400	2 Credits	Prerequisite: STEM and Freshmen Focus and overall "B" average for high school course work.
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Simulation and Animation Design Simulation and Animation Design encompasses the foundation skills necessary in the game design industry. Content such as safety, ethical issues, video game history, career opportunities, game mechanics, and photography with emphasis placed on real-world, hands-on practice related to illustration, level design, character development, and animation is offered to students. Students will receive two Carnegie units upon completion of the course.

Simulation and Animation Design II

Course # 994401	2 Credits	Prerequisite: Simulation and Animation Design I
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Simulation and Animation Design II focuses on audio design, programming, and video game production. This course gives students the opportunity to produce a final video game project that incorporates the skills and knowledge learned in the Simulation and Animation Design I course, allowing the students the chance to showcase what they have learned and accomplished. Upon the completion of this course, the students will also have put the finishing touches on a video game portfolio that is cumulative of their work throughout all semesters of Simulation and Animation Design. Students will receive two Carnegie units upon completion of the course.

Teacher Academy I

Course # 996300	2 Credits	Prerequisite: Proficient or advanced 8 th grade MCT score in Language Arts and Mathematics, 92% attendance rate, Overall B average for high school course work. Must complete an application, essay and interview Must list Education and Training as chosen career cluster on the iCAP
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Teacher Academy I is an entry-level course. Students in Education I gain foundation competencies related to students as learners, planning and assessing teaching, teaching strategies, and communication skills. Students receive hands-on field experiences.

Note: Must list Education and Training as chosen career cluster on the iCAP.

Teacher Academy II

Course # 996301	2 Credits	Prerequisite: Teacher Academy I Must complete an application, essay and interview
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Teacher Academy II provides students with the opportunity to gain advanced skills needed to enhance them as learners, teachers, and communicators. Students receive advanced hands-on field experiences.

DRIVER EDUCATION

Driver Education

Course # 340151	½ Credit	Prerequisite: Priority of placement is based on grade classification
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Driver Education is a semester course that has classroom instruction, simulated driving, and behind-the-wheel driving. A learner's permit is not required to enroll in the driver's education course. The student **IS** required to have their learner's permit to complete the driving portion of

the course. Upon a student's completion of the course, many insurance companies will offer the student discounted rates.

ENGLISH LANGUAGE ARTS

Creative Writing

Course # 230511	½ Credit	Prerequisite: None
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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.

English I, Grade 9

Course # 230107	1 Credit	Prerequisite: None
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Common Core English I emphasizes the development of communication skills, including grammar, composition, and vocabulary. Students develop writing skills through various types of composing: paragraphs, outlines, essays, business letter writing, book reports, etc. Literature studies include a variety of genre (short stories, poetry, drama, novels, plays, etc.) and develop understanding of how the craft of writing has changed throughout history.

Note: This course (the Compensatory or Accelerated option) is required for graduation.

English II, Grade 10

Course # 230110	1 Credit	Prerequisite: English I
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Common Core English II, a continuation of English I, reinforces communication skills learned in ninth grade. Students will develop a greater understanding and use of the English language.

Note: This course (or the Accelerated option) and the Subject Area test are required for graduation.

English III, Grade 11

Course # 230113	1 Credit	Prerequisite: English II
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Common Core English III is a continuation of English II. The study of literature will concentrate on American authors.

Note: This course (or the Accelerated or AP option) is required for graduation.

English IV, Grade 12

Course # 230116	1 Credit	Prerequisite: English III
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Common Core English IV is a continuation of English III. The study of literature will concentrate on British authors, and a research paper will be required.

Note: This course (or the Accelerated or AP option) is required for graduation.

English Language and Composition, Advanced Placement, III

Course # 230117	1 Credit	Prerequisite: Grade of 90 or above in Accelerated English II and Instructor Recommendation
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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.

Note: This class satisfies the English III graduation requirement. Weighted 1.10

English Literature and Composition, Advanced Placement, IV

Course # 230174	1 Credit	Prerequisite: Grade of 90 or above in Accelerated English III and Instructor Recommendation OR grade of 80 or above in AP English III & Instructor Recommendation
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English Literature and Composition, Advanced Placement is a college-level course that emphasizes not only synthesis of reading, writing, and thinking skills through the study of literature but also in research, literary criticism, and poetry explication. Colleges may award college credit based upon a student's score on the AP English Literature Exam.

Note: This class satisfies the English IV graduation requirement. Weighted 1.10

English I, Accelerated, 9th Grade

Course # 230170	1 Credit	Prerequisite: English, Accelerated, Grade 8 and Instructor Recommendation or average of 90 or above in English and Instructor Recommendation
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English I, Accelerated is designed for students who can master general curriculum skills earlier and need additional challenge and rigor. In-depth study focuses on literary works, authors, language concepts, the classics, and varied literary genre. Writings in the form of character analyses, literary critiques, essays, and research papers will be assigned.

Note: This class satisfies the English I graduation requirement. Weighted 1.05

English II, Accelerated, 10th Grade

Course # 230171	1 Credit	Prerequisite: English I, Accelerated and Instructor Recommendation or average of 90 or above in English I and Instructor Recommendation
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English II, Accelerated is a continuation of the study of English I. Students will be expected to delve further into in-depth study of literature and writing. **Note: This class, along with the Subject Area Test, satisfies the English II graduation requirement. Weighted 1.05**

English III, Accelerated, 11th Grade

Course # 230172	1 Credit	Prerequisite: English II, Accelerated and Instructor Recommendation or average of 90 or above in English II and Instructor Recommendation
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English III, Accelerated is a continuation of the study of English II. Students will be expected to delve further into in-depth study of literature and writing. **This class satisfies the English III graduation requirement. Weighted 1.05**

English IV, Accelerated, 12th Grade

Course # 230173	1 Credit	Prerequisite: English III, Accelerated and Instructor Recommendation or average of 90 or above in English III and Instructor Recommendation
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English IV, Accelerated is a continuation of the study of English III. Students will be expected to delve further into in-depth study of literature and writing. A research paper will be required. **This class satisfies the English IV graduation requirement. Weighted 1.05**

Broadcast Journalism

Course # 100104	1 Credit	Prerequisite: Oral Communication
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Broadcast Journalism provides the student with quality academic instruction in television/radio/video production by providing training in equipment operation, reporting, and scriptwriting, as well as planning, directing, and producing video projects.

Foundations of Journalism

Course # 270603	1 Credit	Prerequisite: None
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Introduction to Journalism is a survey of the world of journalism. Students are exposed to the process of reporting and writing the news and packaging it as a product for an audience. Special attention is given to print media, broadcast media, advertising, and photojournalism.

Print Journalism

Course # 270604	1 Credit	Prerequisite: Foundations of Journalism and Instructor Recommendation
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Print Journalism is a course in which students create a business to earn funds necessary for the production of the school's yearbook and literary magazine. The students on yearbook financial staff work as a team to conduct yearbook sales, ad sales, snack sales, and school pageants. The members of this staff are also responsible for using desktop publishing to create the ad section of the yearbook. The students develop organizational skills and responsibility as they learn to deal with the public in each of these activities.

Note: All three of the previous Journalism courses have been merged into a single course aligned with CCSS for ELA. Note: Students may repeat this course, earning elective credit in subsequent years.

Debate

Course # 231026	½ or 1 Credit	Prerequisite: None
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Debate is a course in which students will learn to effectively make decisions using reasoning and logic in various debate formats in the service of statements of belief or propositions of policy.

Note: All three of the previous Debate courses have been merged into a single course aligned with CCSS for ELA. Note: Students may repeat this course, earning elective credit in subsequent years.

Mississippi Writers

Course # 230761	½ Credit	Prerequisite: None
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Mississippi Writers focuses on the state's rich literary heritage through the study of a variety of poetry, fiction, non-fiction, and drama. Themes that emerge from historical, political and social situations in the state will be analyzed.

Survey of African American Writers

Course # 230124	½ Credit	Prerequisite: None
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The **Survey of African American Writing** course is a survey course that draws upon a compilation of genres, themes, styles, and language used by various writers of African- American descent. The student will recognize and appreciate contributions of selected authors through reading, speaking, and viewing selected works and by researching and writing.

Survey of Twentieth Century Writing

Course # 230125	½ Credit	Prerequisite: None
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The **Survey of Twentieth Century Writing** course covers major writers and themes in the Americas and Western Europe for the period from World War I to the present time. The student will recognize major themes present in twentieth century writing and will draw parallels to history and present day concerns. As a result of this course, students will have a greater awareness of events and writings that have shaped and been part of the ideas and culture of the twentieth century.

SREB Literacy Ready

Course # 230150	1 Credit	Prerequisite: English II
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The **SREB Literacy Ready** course is designed to assist students who are preparing for postsecondary education—meaning they do not reach the state’s college- and career-readiness benchmarks on either the ACT, SAT, or other assessment—to become prepared and reach those benchmarks.

This course is best suited for the middle range of students, not those who can succeed in Advanced Placement courses or who are severely behind. The course is built with rigor, innovative instructional strategies, and a concentration on contextual learning that departs from procedural memorization and focuses on engaging the students in a real-world context. The course provides literacy strategies that allow students to read and comprehend all manner of texts and genres in every core discipline.

Technical and Workplace Writing

Course # 230142	½ Credit	Prerequisite: None
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The **Technical and Workplace Writing** course focuses on the various kinds of written communication currently occurring in a variety of workplaces and careers. In this course, students examine actual examples of written materials produced to communicate within the workplace as well as outside the workplace for the customer and general public. Through reviewing examples and through instruction, students will gain a sense of general principles of communication, learn how audience and purpose shape the form and content of the written piece, and discern how organization, wording, accuracy and specificity of details, typography, visuals, design, grammar, usage, and mechanics contribute to effective communication.

FOREIGN LANGUAGE

English as a Second Language

Course # 160121	1 Credit	Prerequisite: Instructor Recommendation
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English as a Second Language is a course designed to assist students who are not proficient in the English language or who have parents who do not speak English. The students receive assistance in placement, course selections, study skills, and subject matter.

French I

Course # 160903	1 Credit	Prerequisite: "75" average or above in English
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French I is a course in which students will learn how to read, write, speak, and understand basic French in the present tense and past tense. Throughout the year, the students will learn about French customs, culture and traditions.

French II

Course # 160904	1 Credit	Prerequisite: "75" average or above in French I and Instructor Recommendation
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French II is a course in which students will build upon skills from French I by learning the past, imperfect, future, and conditional tenses. The students will learn more about customs, culture and traditions.

French III

Course # 160905	1 Credit	Prerequisite: "B" average or above in French II and Instructor Recommendation
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French III is a more intense version of French II, with more emphasis on writing and speaking French history. **Weighted 1.05**

French Language, Advanced Placement

Course # 160907	1 Credit	Prerequisite: French III and AP selection requirements
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French Language, Advanced Placement, designed as a college-level course, is a more comprehensive study of the French language. Emphasis will be placed on grammatical structures, communications, and conversational skills. Students will study the cultures of French-speaking countries and some of the French literature classics. **Weighted 1.10.**

German I

Course # 160513	1 Credit	Prerequisite: "75" average or above in English
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German I is an introduction to the German language with an emphasis on conversation, listening comprehension, and grammar. Units on culture are also included.

German II

Course # 160514	1 Credit	Prerequisite: "75" average or above in German I and Instructor Recommendation
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German II is a course in which students will build on grammar skills and develop reading, writing, and listening skills.

Latin I

Course # 160920	1 Credit	Prerequisite: "75" average or above in English
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Latin I is an introduction to this classical language with emphasis on grammar, English derivatives, and our heritage from the Romans.

Latin II

Course # 160921	1 Credit	Prerequisite: "75" average or above in Latin I and Instructor Recommendation
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Latin II is a continuation of the study of this classical language with emphasis on grammar, English derivatives, and our heritage from the Romans.

Latin III

Course # 160922	1 Credit	Prerequisite "B" average or above in Latin II and Instructor Recommendation
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Latin III is a continuation of the study begun in Latin II. Emphasis is placed on advanced grammatical structures, extended Latin literary works, and study of Roman culture and literature. **Weighted 1.05**

Latin IV

Course # 160923	1 Credit	Prerequisite "B" average or above in Latin III and Instructor Recommendation
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Latin IV is designed to enable and inspire students to augment their language skills for use in real-life applications in a global community. Students in all levels engage in similar activities pertaining to the National Standards for Foreign Language Learning; however, Level IV students should demonstrate increasing sophistication in their use of language skills and cultural knowledge.

Spanish I

Course # 160933	1 Credit	Prerequisite: "75" average or above in English
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Spanish I is a course designed to introduce the student to the language and culture of Spanish-speaking countries. Emphasis is placed on vocabulary, conversational skills, and basic grammar.

Spanish II

Course # 160934	1 Credit	Prerequisite: "75" average or above in Spanish I and Instructor Recommendation
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Spanish II is a continuation of the study begun in Spanish I. Emphasis is placed on understanding more detailed grammatical structures, increasing vocabulary, improving conversational skills, and translating.

Spanish III

Course # 160935	1 Credit	Prerequisite: "B" average or above in Spanish II and Instructor Recommendation
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Spanish III is a continuation of the study begun in Spanish II. Emphasis is placed on applying grammatical structures in order to communicate effectively. Students also study contemporary Spanish culture and Spanish literature. **Weighted 1.05**

Spanish IV

Course # 160936	1 Credit	Prerequisite: "B" average or above in Spanish III and Instructor Recommendation
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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 in all levels engage in similar activities pertaining to the National Standards for Foreign Language Learning; however, Level IV students should demonstrate increasing sophistication in their use of language skills and cultural knowledge.

Spanish Language, Advanced Placement

Course # 160937	1 Credit	Prerequisite: Spanish III and must meet AP selection requirements
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Spanish Language, Advanced Placement, designed as a college-level course, is a more comprehensive study of the Spanish language. Emphasis will be placed on grammatical structures, communications, and conversational skills. Students will study the cultures of Spanish-speaking countries and some of the Spanish literature classics. **Weighted 1.10**

Health and Wellness

Child Development

Course # 200122	½ Credit	Prerequisite: None
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Child Development is a course which 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.

Contemporary Health

Course # 340133	½ Credit	Prerequisite: None
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Contemporary Health, a semester course, is designed to help students acquire the basic knowledge and skills necessary to insure good physical and mental health. Topics include safety, drug education, first aid, and communicable and non-communicable diseases. **This course or Family Health is required for graduation.**

Contemporary Health - FCS

Course # 200140	½ Credit	Prerequisite: None
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Contemporary Health – FCS is an instructional program that prepares individuals to understand the related aspects of health in family living with special emphasis on nutrition, emotional health, and physical health; the relationship of the health of an individual to the well-being of the family; the prevention of illness; and the basic care of the ill and convalescent in the home, including the elderly, the young child, and the handicapped. **This course or Contemporary Health is required for graduation.**

Drug Education

Course # 340142	½ Credit	Prerequisite: None
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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.

Family Dynamics

Course # 200121	½ Credit	Prerequisite: None
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Family Dynamics is a course which utilizes skills in critical thinking, decision making, communication, conflict management, and resource management as they relate to personal development and responsible family and parenting decisions. The focus of the course is to provide knowledge and skills to grow as individuals and assume responsibility for the direction of life to consider the demands and challenges involved in creating and maintaining a healthy family in today's society.

Nutrition and Wellness

Course # 200130	½ Credit	Prerequisite: None
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Nutrition and Wellness is a program which focuses on Food and Nutrition Science, Safety and Sanitation, Consumer Information and Food Preparation, Social and Multicultural Protocol, and Careers. Subject matter will be presented through hands-on classroom and laboratory activities. The course will emphasize technological advances in the field of food and nutrition and will integrate communication, science, and mathematic skills.

Physical Education

Course # 340113	½ or 1 Credit	Prerequisite: None
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Physical Education includes participation in competitive athletics 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.

Resource Management

Course # 200129	½ Credit	Prerequisite: None
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Resource Management is a course that addresses the identification and management of personal resources and family finances to meet the needs and wants of individuals and families throughout the family life cycle, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors.

MATHEMATICS

Advanced Mathematics Plus

Course # 270730	1 Credit	Prerequisites: Algebra II
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Advanced Mathematics Plus is a course consisting of selected topics from advanced mathematics that students should study in order to be college and career ready. Topics include polynomial functions, graphing, complex numbers, exponential and logarithmic function, analytical geometry and matrices. **Weighted 1.05**

Note: This course is designed to prepare students for AP Calculus AB or AP Calculus BC.

Algebra I

Course # 270404	1 Credit	Prerequisite: None
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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.

Note: This course and the Subject Area Test are required for graduation.

Algebra II

Course # 270405	1 Credit	Prerequisite: Geometry
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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.

Algebra III

Course # 270441	1 Credit	Prerequisite: Algebra II
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Algebra III 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.

Note: This course is designed to prepare students for Calculus.

Calculus

Course # 279912	1 Credit	Prerequisite: Algebra III
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Calculus is the study of the mathematics of change. The major focus is on differential and integral calculus. The use of graphing calculators and other technologies are major components of the course. The instructional approach should provide opportunities for students to work together collaboratively and cooperatively as they solve routine and non-routine problems. Communication strategies should include reading, writing, speaking, and critical listening as students present and evaluate mathematical arguments, proofs, and explanations about their reasoning. This one-credit course is designed for the student who has a thorough knowledge of college preparatory mathematics. **Weighted 1.05**

Calculus A.B., Advanced Placement

Course # 279908	1 Credit	Prerequisite: Advanced Mathematics Plus and must meet AP selection requirements
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AP Calculus A.B. is designed to be the equivalent of a semester of college level calculus taught over the course of a school year. This is the study of the mathematics of change. The major focus is on differential and integral calculus. This course is intended for those students who wish to seek college credit and/or placement from colleges or universities. **Weighted 1.10**

Calculus B.C., Advanced Placement

Course # 279909	1 Credit	Prerequisite: Advanced Mathematics Plus and must meet AP selection requirements
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AP Calculus B.C. is designed to be the equivalent of a full college level calculus taught over the course of a school year. This is the study of the mathematics of change. The major focus is on

differential and integral calculus. This course is intended for those students who wish to seek college credit and/or placement from colleges or universities. **Weighted 1.10**

Compensatory Mathematics

Course # 320133	1 Credit	Prerequisite: None
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Compensatory Mathematics is designed to give specialized mathematics instruction adjusted to the needs of a student who does not perform satisfactorily with regular mathematics instruction. The course must allow flexible adjustment of materials and methods for individual differences. This course can be taken as an elective. *Note: Compensatory Mathematics can only be counted as an elective Carnegie unit credit – NOT as a Mathematics Carnegie unit credit*

Foundations of Algebra (9th Graders ONLY)

Course # 270390	1 Credit	Prerequisite: None
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Foundations of Algebra is a one-credit course offered only to 9th grade students. The primary purpose of the Foundations of Algebra course is to provide a basis for curriculum development for rising 9th grade students in need of substantial support prior to taking Algebra I. The content of the Foundations of Algebra course focuses on equations, inequalities, functions, polynomials, geometry, and statistics as well as the standards of mathematical practice. The standards for this course were developed based on core content that should have been mastered by the end of the grade 8 and key skills that will be introduced in Algebra I.

Geometry

Course # 270408	1 Credit	Prerequisite: Algebra I
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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.**

SREB Math Ready

Course # 270740	1 Credit	Prerequisite: Geometry
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The SREB Math Ready Course consists of seven mandatory modules (or units): algebraic expressions, equations, measurement and proportional reasoning, linear functions, linear systems of equations, quadratic functions, exponential functions, and an optional module on summarizing and interpreting statistical data. While this course covers the basics in math practices and reviews the procedural steps needed to be successful in math, it is designed to be taught in a new, engaging way based heavily on conceptual teaching and learning.

Statistics

Course # 270532	1 Credit	Prerequisite: Algebra II
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Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Four major areas of concentration include data explorations, design of experiments, production of models using probability and simulation and statistical inference. Students are required to design, conduct, represent, and interpret statistical and probabilistic studies. The use of technology will be an integral part of the course. The instructional approach should provide opportunities for students to work together collaboratively and cooperatively as they solve routine and non-routine problems. Communication strategies

should include reading, writing, speaking, and critical listening as students present and evaluate mathematical arguments, proofs, and explanations about their reasoning. This course is designed for students who have successfully completed Algebra II. This is a one-credit course. **Weighted 1.05**

MILITARY SCIENCE

JROTC I

Course # 280311	1 Credit	Prerequisite: None
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Air Force JROTC I involves the study of Aviation History, Air Force Heritage, organizations, traditions, citizenship, wellness, health, and fitness.

JROTC II

Course # 280312	1 Credit	Prerequisite: JROTC I
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Air Force JROTC II involves the study of the Science of Flight and includes weather, physiology, aerodynamics, and navigation. It also provides instruction in communication skills, individual and group behavior, and basic leadership concepts.

JROTC III

Course # 280313	1 Credit	Prerequisite: JROTC II
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Air Force JROTC III involves the study of the exploration of space and includes astronomy, spacecraft, launch vehicles, orbits, and trajectories. It also provides instruction in life planning, job searching, resume preparation, financial planning and career opportunities.

JROTC IV

Course # 280314	1 Credit	Prerequisite: Instructor Recommendation
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Air Force JROTC IV involves management of the cadet corps and includes the study of management techniques, decision-making, problem solving, and personal development.

Each one of the above courses under Military Science includes a leadership section and a wellness program.

SCIENCE

(ALL of the science classes have a lab fee attached.)

Astronomy

Course # 400211	½ Credit	Prerequisite: Biology I
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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.

Biology I

Course # 260131	1 Credit	Prerequisite: None
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Biology I is an introductory laboratory-based course designed to study living organisms and their physical environment. Students should apply scientific methods of inquiry and research in examining the following topics: biochemistry, cell structure, function and reproduction, cell energy, molecular basis of genetics, natural selection and diversity, and ecology. **This course and the Subject Area Test are required for graduation.**

Biology, General, Advanced Placement

Course # 260143	1 Credit	Prerequisites: Biology I and Chemistry and must meet AP selections requirements
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Advanced Placement Biology is designed to be the equivalent of a college biology course with an in-depth study into the chemistry, processes, cell structure, their relationships and their effects at the cellular and organism level. Studies focus on exploring cytology, genetics, physiology evolution and ecology. Real world applications address students' interest for careers in biology, ecology, environmental sciences, veterinary and medical fields, engineering and dentistry. Advanced techniques in staining, biochemistry, classification, separation techniques and colorimetry are included. This course prepares students for the AP test in Biology. Colleges may award college credit based upon a student's score on the AP Biology Exam. **Weighted 1.10**

Biomedical Research

Course # 260502	1 Credit	Prerequisite: Biology I & Chemistry
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Biomedical Research is an inquiry-based, technology-oriented, and laboratory intensive elective course that prepares students to participate in professional biomedical research activities at the university level. Major areas of study include electronic access to international biomedical literature data bases, use of the internet to communicate with biomedical researchers and other students at remote sites, contemporary ethical considerations in the conduct and publication of research, fundamentals of molecular biology and genetics, classification and nomenclature for organic chemical reactions, and elements of cellular and human physiology. Students are required to utilize a variety of mechanisms, including printed and electronic library databases, internet communications, and personal interviews, to investigate specific focus areas of advanced biomedical research. Emphasis is placed on a process of identifying and analyzing highly technical biomedical research endeavors, followed by delivery of written and oral summaries of those activities. The objective of this process is to instill in the student an ability to effectively communicate highly technical scientific information in a manner that is readily understandable. **Weighted 1.05**

Botany

Course # 260311	½ Credit	Prerequisite: Biology I
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Botany is a semester course designed to instill an appreciation of plants. It is a lab-based course that will teach students to communicate results in oral, written and graphic form.

Chemistry

Course # 400519	1 Credit	Prerequisite: Algebra II or be enrolled in Algebra II
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Chemistry provides students the opportunity to develop and communicate an understanding of structure, physical and chemical properties, and chemical change. Laboratory experiences should allow the student to manipulate compounds, observe change, collect and analyze data, and draw conclusions. Students must effectively communicate results through various methods, including the use of technology.

Chemistry, General, Advanced Placement

Course # 400523	1 Credit	Prerequisite: Chemistry and must meet AP selection requirements
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AP Chemistry, designed to be the equivalent of a college general chemistry course, develops students' abilities to think clearly and to express their ideas with clarity and logic. This course helps students attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. Colleges may award college credit based upon a student's score on the AP Chemistry Exam. **Weighted 1.10**

Environmental Science

Course # 260611	½ Credit	Prerequisite: Biology I or be enrolled in Biology I
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Environmental Science is a semester course that explores ways in which the environment shapes living communities. Interactions of organisms with their environment are emphasized along with the impact of human activities on the physical and biological systems of the earth.

Field Experiences in Science Courses

Course # 269998	½ Credit	Prerequisite: Must be currently enrolled in Zoology, Environmental Science or AP Biology
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Field Experiences is a hands-on, research-based course that meets outside the normal school day involving actual biological research work done in conjunction with state and federal agencies, graduate research programs at various universities, and the biologists with these programs. Students involved will earn ½ credit of lab-based science for 70 hours in the field. Students may choose from a variety of research projects.

Genetics

Course # 260613	½ Credit	Prerequisite: Chemistry or be enrolled in Chemistry
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Genetics is a lab-based course that will include a research component on current issues in genetic engineering/biotechnology and genetic disorders in humans. It covers the following topics: the structure and function of the cell as it applies to genetics; the history of DNA; the structure and function of DNA and RNA; DNA Repair Mechanisms; types of mutations and the consequences of each; applying genetic principals to solving genetic problems; and genetic diversity in humans. **Weighted 1.05**

Geology

Course # 400631	½ Credit	Prerequisite: Biology I or be enrolled in Biology I
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Geology, a field/lab-based course, explores the chemical and physical content of the earth and its external and internal components with an emphasis on plate tectonics. The study of rocks, minerals, earthquakes, volcanoes, and the geological timetable are included.

Human Anatomy and Physiology

Course # 260751	1 Credit	Prerequisite: Biology I
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Human Anatomy and Physiology is a lab based course that requires a large dissection component. A&P consists of an advanced study of the structure, function and dysfunction of the following human organ systems: Integumentary, skeletal, muscular, nervous, endocrine, lymphatic, respiratory, cardiovascular, digestive, urinary male reproductive and female reproductive.

Introduction to Biology

Course # 260128	1 Credit	Prerequisite: None
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Introduction to Biology (pre-biology) is a lab-based course that provides students the preparatory instruction for Biology I and the corresponding Subject Area Test. Topics include the basics of biology, graphing, and measurements. **This course will satisfy one of the four science credits required for graduation.**

Marine and Aquatic Science

Course # 260625	½ Credit	Prerequisite: Biology I
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Marine and Aquatic Science is a laboratory based and field based course that investigates the biodiversity of salt water and fresh water organisms, including their interactions with the physical and chemical environment. The special characteristics of aquatic resources are also examined.

Physical Science (Introduction to Chemistry)

Course # 400700	1 Credit	Prerequisite: None
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Physical Science, a lab-based course, is an introduction to the basic concepts of chemistry and physics, including structure of matter, chemical and physical properties, energy, waves, electricity, magnetism, and radioactivity.

Physics I

Course # 400820	1 Credit	Prerequisites: Algebra II, Chemistry or be enrolled in Chemistry
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Physics I is the study of motion, light, sound, electricity, and magnetism. The lab component provides the student direct observation of these concepts and principles. **Weighted 1.05**

Physics, Advanced Placement I

Course # 400826	1 Credit	Prerequisite: Chemistry and must meet AP selection requirements
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AP Physics I course is a trigonometry-based course in general physics. It is equivalent to an introductory trigonometry-based university level physics course. This course is covered in 2 semesters, and emphasizes understanding of the concepts and skills and using the concepts and formulae to solve problems. Topics covered include Newtonian Mechanics, Fluid Dynamics, Thermodynamics, Electricity and Magnetism, Waves and Optics, and Nuclear Physics. Laboratory work is an integral part

Physics, Advanced Placement II

Course # 400827	1 Credit	Prerequisite: Chemistry and must meet AP selection requirements
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AP Physics II is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability;

electrostatics; electrical circuits and capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

Zoology

Course # 260701	½ Credit	Prerequisite: Biology I
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Zoology is an advanced course designed to meet the needs of the college bound student. It is a survey of the animal kingdom designed for those students interested in pursuing careers in the biological sciences. It provides a more in-depth look than Biology I with specific attention to adaptations, behavior, and morphology. It is recommended for students who scored above an 80 average in Biology I.

SOCIAL STUDIES

Advanced World Geography

Course # 450711	1 Credit	Prerequisite: Intro to World Geography
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Advanced World Geography provides an in-depth study of the regions of the world, including the physical, human, economic, and future problems of each. Each continent will be a course of study with geography, economics, cultures, and social and political systems integrated to the study of that continent.

Comparative Government and Politics, Advanced Placement

Course # 451020	½ Credit	Prerequisite: AP U.S. Government and Politics and must meet AP selection requirements
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Comparative Government and Politics, Advanced Placement, a college-level course, provides students with the conceptual tools necessary to develop an understanding of some of the world's diverse political structures and practices. The course encompasses the study of both specific countries and their governments and the general concepts used to interpret political relationships and institutions. Colleges may award college credit based upon a student's score on the Comparative AP Exam. **Weighted 1.10**

Economics

Course # 450601	½ Credit	Prerequisite: None
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Economics provides an introduction of economic concepts and a familiarization with microeconomics and macroeconomics. Topics for concept development are the nature of economics, economic systems, founders of economic thought, production and distribution, supply and demand, market organization, unemployment, inflation, economic growth, money and banking, and taxes and tax policy. **This course is required for graduation.**

Global Studies

Course # 050138	½ Credit	Prerequisite: None
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Global Studies will examine the concepts and systems that shape our world and make countries interdependent. Students will explore regional uniqueness, globalization, and environmental concerns.

Humanities I

Course # 300411	1 Credit	Prerequisite: 12 th Grade and Approved Application
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Humanities I is a course in which high school seniors mentor elementary students. Each senior, or “big,” is paired with an elementary student, or “little,” to mentor, tutor, and help during the school year. Classroom training in mentoring skills and classwork assignments are also required. Participants are selected through an interview and application process. Participants must have no disciplinary referrals and must conduct themselves as proper role models throughout the school year.

Human Geography, Advanced Placement

Course # 450715	½ Credit	Prerequisite: Must meet AP selection requirements
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The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth’s surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

Introduction to World Geography

Course # 450704	½ Credit	Prerequisite: None
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Introduction to World Geography provides students basic geographic content and skills. Students will study the five fundamental themes of geography: location, place, human-environment interactions, movement, and regions. **This course is required for graduation.**

Law Related Education

Course # 220101	½ Credit	Prerequisite: None
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Law-Related Education is the study of 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. Skill development will include the interpretation and application of maps, graphs, charts, political cartoons, primary documents, and other social studies tools.

Macro Economics, Advanced Placement

Course # 450625	½ Credit	Prerequisite: Must meet AP selection requirements
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AP Macroeconomics is a course designed to provide students with a thorough understanding of the principles of economics in examining aggregate economic behavior. Students taking the course can expect to learn how the measures of economic performance, such as GDP, inflation and unemployment, are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. Students will also learn the basic analytical tools of macroeconomics, primarily the aggregate demand and aggregate supply model and its application in the analysis and determination of national income, as well as evaluating the effectiveness of fiscal policy and monetary policy in promoting economic growth and stability. Recognizing the global nature of economics, students will also have ample opportunities to examine the impact of international trade and international finance on national economies. **Weighted 1.10**

Micro Economics, Advanced Placement

Course # 450626	½ Credit	Prerequisite: Must meet AP selection requirements
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The purpose of an AP course in Micro Economics is to provide a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promotion greater efficiency and equity in the economy.

Mississippi Studies

Course # 450705	½ Credit	Prerequisite: None
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Mississippi Studies is designed to help the student understand and develop an appreciation for the geography, history, government, literature, art and music of Mississippi. **This course is required for graduation.**

Problems of American Democracy

Course # 451017	½ Credit	Prerequisite: None
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Problems of American Democracy provides students with the background necessary to discuss, analyze, and take action on important social, technological, political, and economic issues facing our democratic form of government. The course is designed to help young people fulfill their responsibilities as citizens.

Psychology

Course # 420111	½ Credit	Prerequisite: None
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Psychology provides an introduction to the nature of psychology, outlines the state of human growth and development, and provides familiarization with the creative-thinking process and individual development.

Psychology, Advanced Placement

Course # 420115	1 Credit	Prerequisite: Must meet AP selection requirements
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AP Psychology introduces the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice.

Sociology

Course # 451121	½ Credit	Prerequisite: None
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Sociology introduces students to the basic principles and concepts of sociology as a discipline, stimulates students to become aware of the extreme importance of social relationships in human behavior, and enables students to develop the ability to look more objectively at the social phenomena.

U.S. Government

Course # 451004	½ Credit	Prerequisite: None
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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 (or AP U.S. Government) is required for graduation.**

U.S. Government and Politics, Advanced Placement

Course # 451008	½ Credit	Prerequisite: Must meet AP selection requirements
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U.S. Government and Politics, Advanced Placement, a college-level course, is designed to give students an analytical perspective of government and politics in the United States. The course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that comprise United States political reality. Colleges may award credit based upon a student's score on the AP Exam. **This course satisfies the U.S. Government requirement for graduation. Weighted 1.10**

U.S. History, 1877 to Present

Course # 450811	1 Credit	Prerequisite: None
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U.S. History, 1877 to Present, develops a knowledge base of political, economic, cultural, and military history of the United States from 1877 to present, provides experiences to gain an appreciation of our American heritage and to promote patriotism, encourages an interest in current affairs, promotes international understanding, and develops critical thinking skills. **This course (or AP U.S. History) and the Subject Area Test are required for graduation.**

U.S. History, Advanced Placement

Course # 450814	1 Credit	Prerequisite: Must meet AP selection requirements
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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. Weighted 1.10**

World History

Course # 450835	1 Credit	Prerequisite: None
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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

Course # 450836	1 Credit	Prerequisite: 9 th Grade Accelerated English and must meet AP selection requirements
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AP World History develops greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. **Weighted 1.1**

For a course to be offered for the 2016 - 2017 school year, a minimum of 15 pupils must be enrolled. Due to this policy, some courses may not be offered at all Madison County High School sites. The Madison County School District has a “no drop” policy as stated in the district handbook.