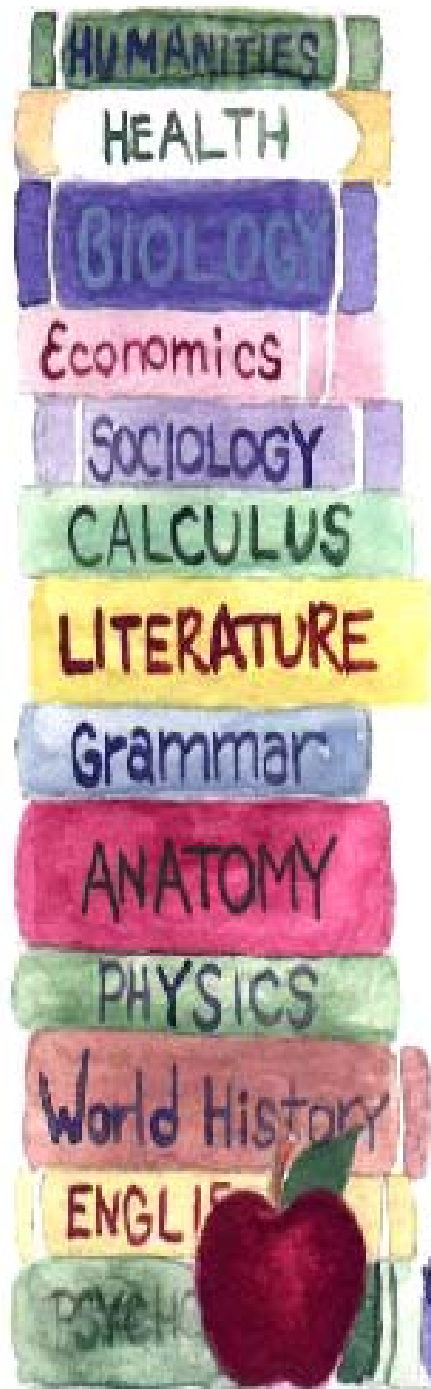


Memphis High School's



Curriculum Catalog

2009 - 2010



Please read the following course descriptions carefully before making your course selections. There are many people who can assist you in making the best possible educational choices. You should discuss your course selections with your parents, your counselor, and your teachers. Their advice is invaluable. They can help you make choices based on your goals, interests, and abilities.

Also, when selecting classes, please consider the six major career pathways: health services, natural resources, arts and communications, business and management, industrial and engineering services, and human resources. Each pathway leads to a variety of related careers requiring different skills and different levels of education. As you select your classes for next year, be sure you have considered what pathway is of most interest to you and how your course selections will affect your progress toward your career goal.

Feel free to ask questions about courses. Prerequisites may be waived for students with special interests, skills, or abilities. Use this booklet, together with your self-knowledge and the advice of parents and staff, to create the strongest high school program possible. For more information, please contact the high school counselor.

TERMS TO KNOW

Distance Learning	The consortium of high schools in St. Clair County, together with the St. Clair County RESA, offer classes throughout the county via two way interactive video technology. These distance learning classes will vary from year to year with emphasis on foreign languages and advanced placement courses.
Dual Enrollment	Eleventh and twelfth grade students may enroll in community college classes in addition to their Memphis High School classes if they have taken all of their MMEtests and if they have earned endorsements in one or more test areas. These college classes may not be in subjects already taught at Memphis High School (e.g. pre-calculus) nor may they be recreational, craft related, or religious.
Elective Subject	An elective subject is any class that is not specifically required for high school graduation.
Required Subject	A required subject is one that all students <i>must</i> successfully complete for graduation. Algebra 1, biology, and world history are examples of required subjects.
Testing Out	Students may opt to test out of any required course except for government and physical education (which are state mandated). If the student receives a qualifying score on the selected course's equivalency test, that student does not earn high school credit. The student will be considered to have met the graduation requirement in that area, however, and may move on to a more difficult class in the same subject area.
Units of Credit	One-half (1/2) unit of credit will be awarded every semester for every course in which a passing grade has been earned.

GENERAL REQUIREMENTS AND INFORMATION FOR ALL STUDENTS

Class Load	All students will have six (6) classes per day. Study hall is not available.												
Co-op	Only TEC Center students may be placed on Co-op. Each student's job must be related to his/her chosen course of study. No more than three (3) school hours a day may be allowed for Co-op. St. Clair County TEC Center staff will coordinate the Co-op Program.												
Dropping And/Or Adding Courses	<p>Students may drop or add a course for a period of up to two (2) weeks after the start of each semester. There always must be a compelling reason why such a change is necessary, and a note from a parent or guardian must be submitted requesting/approving the change. When presented with the drop/add request, the counselor will determine if the change is in the best educational interest of the student. If so, a drop/add form will be filled out by the counselor, sent to the teachers involved, and finalized in the guidance office. Please note that students may not drop a TEC program in the middle of the school year.</p> <p>Occasionally a student will be requested to change a class because of scheduling conflicts or class overloads. <u>Any</u> drop/add after the second week must be approved by the principal.</p>												
Class Rank	<p>Senior class rank will be determined by putting all seventh semester cumulative grade point averages in rank order starting with number one (the highest GPA) through the total number of students enrolled in the graduating class. To be in Memphis High School's top ten, a student must have continuously attended Memphis High School since the first semester of his/her 11th grade year.</p> <p>An approximate class rank will be established using the 6th semester cumulative GPA's at the beginning of the students' senior year. This ranking will be used for scholarship and college applications only.</p>												
Grade Point	<p>Grade point averages will be computed on a four point scale with an extra one-half honor point being given for AP class grades of C or better.</p> <table><tr><td>A = 4.0</td><td>C = 2.0</td></tr><tr><td>A- = 3.7</td><td>C- = 1.7</td></tr><tr><td>B+ = 3.3</td><td>D+ = 1.3</td></tr><tr><td>B = 3.0</td><td>D = 1.0</td></tr><tr><td>B- = 2.7</td><td>D- = 0.7</td></tr><tr><td>C+ = 2.3</td><td>E = 0.0</td></tr></table>	A = 4.0	C = 2.0	A- = 3.7	C- = 1.7	B+ = 3.3	D+ = 1.3	B = 3.0	D = 1.0	B- = 2.7	D- = 0.7	C+ = 2.3	E = 0.0
A = 4.0	C = 2.0												
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B = 3.0	D = 1.0												
B- = 2.7	D- = 0.7												
C+ = 2.3	E = 0.0												
TEC Center Dropping	Once a student is enrolled at the TEC Center, he/she must complete the entire year. Students may transfer to another program at the TEC Center during the year only with permission from TEC. A drop at the end of first semester is only possible with a strongly compelling reason and with the approval of Memphis High School, TEC Center, and parent(s).												

PROGRAM RECOMMENDATIONS
Class of 2010

COLLEGE PREPARATORY: Total Credits – 24

English - 4 Credits

Lit. Comp. 1 Cr.
Rhet & Read 1 Cr.
Am. Lit./Elec. 1 Cr.
C P English 1 Cr.

Science – 3 Credits

Biology 1 Cr.
Integrated Science 1 Cr.
Chemistry/Physics 1 Cr.

Phys. Ed. & Health - 1 Credit

Physical Ed. ½ Cr.
Health ½ Cr.

Computer Skills – 1 Credit

Math – 3 Credits

Algebra 1 1 Cr.
Geometry 1 Cr.
Algebra 2 1 Cr.

Social Studies – 3 Credits

World History 1 Cr.
U S History 1 Cr.
Government ½ Cr.
Economics ½ Cr.

Foreign Language – 2 Credits

Electives – 7 Credits

TECHNOLOGICAL PREPARATORY: Total Credits – 24

English – 4 Credits

Lit. Comp. 1 Cr.
Rhet & Read 1 Cr.
Am. Lit./Elec. 1 Cr.
English Elec. 1 Cr.

Science – 3 Credits

Biology 1 Cr.
Integrated Science 1 Cr.
Elective 1 Cr.

Phys. Ed & Health - 1 Credit

Physical Ed. ½ Cr.
Health ½ Cr.

Computer Skills – 1 Credit

Math – 3 Credits

Algebra 1 1 Cr.
Geometry 1 Cr.
Algebra 2 1 Cr.

Social Studies – 3 Credits

World History 1 Cr.
U S History 1 Cr.
Government ½ Cr.
Economics ½ Cr.

Electives – 3 Credit

Technological Ed - 6 Credits

See list of TEC programs.

GENERAL STUDIES: Total Credits - 24

Same as Technological Preparatory (above) except electives are increased to 9 and students do not attend the TEC Center.

PROGRAM RECOMMENDATIONS
Classes of 2011 and Later

COLLEGE PREPARATORY: Total Credits—24

English -- 4 Credits

Lit. & Comp.	1 Cr.
Am. Lit.	1 Cr.
Brit. Lit.	1 Cr.
CP English	1 Cr.

Science -- 3 Credits

Biology	1 Cr.
Integrated Science	1 Cr.
Chemistry/Physics	1 Cr.

Phys. Ed. & Health --1 Credit

Physical Ed.	½ Cr.
Health	½ Cr.

Computer Skills – 1 Credit

Math – 4 Credits

Algebra 1	1 Cr.
Geometry	1 Cr.
Algebra 2	1 Cr.
Pre-calculus	1 Cr.

Social Studies – 3 Credits

World History	1 Cr.
U. S. History	1 Cr.
Government	½ Cr.
Economics	½ Cr.

Foreign Language – 2 Credits

Fine Arts – 1 Credit

Electives – 5 Credits

TECHNOLOGICAL PREPARATORY: Total Credits---24

English – 4 Credits

Lit. Comp.	1 Cr.
Am. Lit.	1 Cr.
Brit. Lit.	1 Cr.
World Lit.	1 Cr.

Science – 3 Credits

Biology	1 Cr.
Integrated Science	1 Cr.
Elective	1 Cr.

Phys. Ed. & Health – 1 Credit

Physical Ed.	½ Cr.
Health	½ Cr.

Computer Skills – 1 Credit

Math – 4 Credits

Algebra 1	1 Cr.
Geometry	1 Cr.
Algebra 2	1 Cr.
Elective	1 Cr.

Social Studies – 3 Credits

World History	1 Cr.
U. S. History	1 Cr.
Government	½ Cr.
Economics	½ Cr.

Fine Arts – 1 Credit

Electives -- 1 Credit

Technological Ed. – 6 Credits

See list of TEC programs.

GENERAL STUDIES: Total Credits – 24

Same as Technological Preparatory (above) except electives are increased to 7 and students do not attend the TEC Center.

Distance Learning Classes

AP U.S. History – Host: Memphis High School

Prerequisite: Open to 11th and 12th grade students who have completed a course in U S history.

This class covers the early colonial period through the early 1900's. The class provides students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States History. Students should learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance and to weigh the evidence and interpretations presented to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

German I, II (first and second year) – Host: Port Huron Schools

Prerequisite: None

Students learn to speak German through short memorized dialogues, class conversations, listening exercises and vocabulary enrichment. Pronunciation skills are developed while simple projects help to develop writing skills.

Note: Classes offered are subject to change due to time constraints and class size limitations. Memphis High School cannot guarantee that these classes will be available during any specific school year.

TEC Programs of Study

Good attendance at the home school and a positive, respectful attitude are strongly considered during the selection process of students for the TEC Center. Students and parents *must* attend an “open house” at the Tec Center and students must fill out an application to be considered for a Tec Center slot.

Class	Grade	Term	Earned Credit
Auto Body Repair Students learn to repair, replace, and refinish automobile body parts. Students receive instruction in MIG, welding, sheet metal repair and painting, and other related skills.	11 th -12 th	1 Year	3 Credits
Automotive Technology Students prepare for the Michigan Auto Mechanic Certification Tests. Students receive instruction in engine diagnosis, disassembly, reconditioning, and assembly. Instruction also includes the braking system, suspension system, and transmissions.	11 th -12 th	1 Year	3 Credits
Business Mgt & Admin Students will be introduced to the business world through the use of word processing, data base, spreadsheet, and presentation software. Students will have the opportunity to achieve the Microsoft Office Specialist Core Certification. Specific areas of study will include accounting and management support.	11 th -12 th	1 Year	3 Credits
Information Technology First year students will learn computer hardware support and basic computer network administration. Second year students will have the opportunity to attend Baker College for study in advanced network administration.	11 th -12 th	1 Year	3 Credits
Construction First year students learn and practice basic construction skills while building a three-bedroom house. Second year students specialize in one or more of the following areas: plumbing, carpentry, electrical, masonry, and heating & cooling (HVAC).	11 th -12 th	1 Year	3 Credits

Cosmetology	11 th -12 th	1 Year	3 Credits
Students learn theory and develop practical skills through work on mannequins and models. A clinical experience follows with students performing services for clients. Students are required to train for 1500 hours to complete the program and to qualify for state certification. Students attend classes on Saturdays and during the summer in addition to the usual school calendar. Nail Technology, a 450-hour course, is available for seniors.			
Culinary Arts	11 th -12 th	1 Year	3 Credits
Students in Culinary Arts/Food Service learn a variety of food preparation techniques, customer service, and kitchen management practices. Training relates to skills required in commercial food service (i.e. operations such as hotels, restaurants, schools, and other institutions). Besides food preparation, students learn quantity purchasing, inventory control, the handling of cash receipts, and hospitality skills.			
Digital Media Technology	11 th -12 th	1 Year	3 Credits
Students will receive an introduction to video and audio production techniques which will provide them with the opportunity to develop basic skills in digital media technology. Specific areas of study will include camera work, sound, lighting, editing, and script writing.			
CAD	11 th -12 th	1 Year	3 Credits
Students begin their training on a drawing board with manual drafting & practice lettering, line quality, multi-view projections, assemblies, and detail drawings. Students move up to working on a computer designing a variety of products, buildings, and systems. Interested students should have satisfactorily completed courses in algebra and geometry prior to enrollment in this program.			
Electronics	11 th -12 th	1 Year	3 Credits
Students learn to design, build, troubleshoot and repair various kinds of electronic and computer equipment. Class time is devoted to instruction in AC/DC, semi conductors, analog circuits, and digital circuits. Interested students should have satisfactorily completed algebra before enrolling in this program.			
Health Careers	11 th -12 th	1 Year	3 Credits
All students must complete one semester of introductory classroom course work. Students then have the opportunity of selecting from four courses of study: allied health, nursing assistant, internship program, and nursing assistant cooperative education.			
Mechatronics	11 th -12 th	1 Year	3 Credits
Students in this program will study to become mechatronic specialists. They will develop skills in pneumatic technology, fluid power, electrical/electronic systems, programming, mechanical systems, and general automation techniques. Qualified second year students will attend St. Clair County Community College.			
Metal Machining Technology	11 th -12 th	1 Year	3 Credits
Students learn to use specialized machinery to shape raw metal into useful products by following blueprints and specifications. Students learn to check the accuracy of their work by using precision measuring devices such as micrometers, calipers, and other gauges. Advanced students begin to complete metal machining tasks through the use of computer assisted machining (CAM).			
Public Safety/ Protective Services	11 th -12 th	1 Year	3 Credits
First years students will complete core studies in criminal justice, law enforcement, firefighting, and corrections. Second year students will continue their studies at an advanced level. All students must be able to pass a drug screen and criminal history check. Students with a felony conviction will not be accepted into this program.			

Welding11th-12th

1 Year

3 Credits

Students gain practical experience in the operation of welding equipment including oxyacetylene, metallic shielded, gas shielded, and flux coated wire welding. Students also learn electric and oxyacetylene cutting as it is applied to pipe and tubing.

Employer Based Programs

The following programs are employer-based. Students receive their training at businesses away from TEC. Business owners provide the training and give students hands-on working experience. All students interested in an employer-based program must complete a special application and go through a selection process.

Agricultural Power & Machine
 Agricultural Supplies & Services
 Aviation Maintenance Technician
 Cabinetmaking
 Child Care
 Custodial Services
 Facility Maintenance
 Floor Covering Installation
 Floriculture

Heating, Ventilation, Air Conditioning &
 Refrigeration (HVAC)
 Heavy Duty Truck & Bus Technology
 Heavy Equipment Technology
 Home Furnishings Assistant
 Meatcutting
 Utility & Recreational Vehicle Repair
 Glazier
 Graphic Arts

Art

Intro. to Art9th-12th

1 Sem/1 Year

½ / 1 Credit

Prerequisite: None.

The basic concepts of art will be explored. Students will learn how to use various mediums such as acrylics, watercolor, pencils, and tempera. Students will develop an understanding of various paper products and their uses along with lessons in lettering, commercial design, rendering, spatial relationships, and life-like shadows which will be taught through a variety of assignments.

Advanced Art10th-12th

1 Sem/1 Year

½ / 1 Credit

Prerequisite: A minimum of a B average in Intro. to Art or permission of instructor.

Art instruction will be tailored to the individual needs of the advanced student. More emphasis will be placed on the display and critique of students' own work. Students who have had success in introductory art will continue to develop and expand their abilities along with their student art portfolios in this class. This class may be taken for up to three years. *There is a \$15 materials fee for each semester of this class.*

Digital Photography11th-12th

1 Sem/1 Year

½ / 1 Credit

Prerequisite: A minimum of a B average in art and the permission of instructor.

The digital photography course is designed to show students how to use a computer to capture, edit, manipulate, and produce top quality digital photographic images for both the internet and printing.

It is recommended that students have their own cameras or they will have to share the school's cameras. There is a \$15 materials fee for each semester of this class.

Foundations of Reading and Writing II 10th 1 Year 1 Credit

Prerequisite: For students who have not met 9th grade reading and writing standards

This course is a continuation of Foundations of Reading and Writing I. Emphasis continues on strengthening students' reading and writing skills and preparing them for more advanced work in language and literature.

American Literature 10th 1 Year 1 Credit

Prerequisite: Must have successfully met the reading and writing standards on which the 9th grade exit exam is based.

This course will focus on the study of American literature through the 20th century.. Selections will include *The Crucible*, *The Great Gatsby*, and *Of Mice and Men* as well as various other pieces of prose and poetry. Writing assignments will reinforce and add to the grammar, vocabulary, and writing skills developed in previous courses.

Reading and Composition I 11th 1 Year 1 Credit

Prerequisite: For students who have not met 10th grade reading and writing standards

This course's writing assignments will stimulate critical thinking and self-expression and will reinforce grammar and vocabulary skills. Literature study will concentrate on comprehension, interpretation, and appreciation.

British Literature 11th 1 Year 1 Credit

Prerequisite: Must have successfully met the reading and writing standards on which the 10th exit exam is based.

This course follows the development of British literature from the Anglo Saxon period through the Restoration, with emphasis on Chaucer, Shakespeare and Swift. Writing assignments include the fully-developed thesis essay and will enforce grammar, vocabulary, and style.

World Literature 12th 1 Year 1 Credit

Prerequisite: Must have successfully met the reading and writing standards on which the 11th grade exit exam is based.

Reading and Composition II 12th 1 Year 1 Credit

Prerequisite: For students who have not met 11th grade reading and writing standards

This course is a continuation of Reading and Composition I. Emphasis continues on strengthening students' reading and writing skills and preparing them for post high school language needs.

Creative Writing 11th-12th 1Sem/1Year ½ / 1 Credit

Prerequisite: None

This course is designed for both the beginning and the seasoned writer. It will emphasize the writing of poetry, one-act plays, sketches, and essays. Course assignments will stress exactness, concreteness, and clarity of expression. Each student will compile a portfolio of his/her work.

Mythology 9th-12th 1 Sem ½ Credit

Prerequisite: None

Mythological figures and stories are the focus of this course. Much emphasis will be placed on the Greek gods and goddesses. Students will be able to recognize prominent mythological figures, tales, and themes relevant to various cultures and will respond to the literature through oral discussions, writing, and creative analysis. Also, students will identify mythology's presence and influence in today's world.

College Prep English 12th 1 Year 1 Credit

Prerequisite: Grade of B or better in previous English classes

The focus of this class is to improve writing, reading, speaking, and analytical skills necessary for work at the collegiate level. Students interested in this course should possess advanced reading and writing skills. Course work is accelerated and students will be expected to write analytical papers and a research paper, to discuss literary works, think critically, and work independently.

Yearbook 11th-12th 1 Year 1 Credit

Prerequisite: B average in English

This course will enable students to gain practical knowledge and experience from the actual writing, funding, and production of a yearbook. In addition, students will acquire problem solving and cooperative learning skills. Students also will gain knowledge in desktop publishing, marketing, public relations, and organizational skills.

FINE ARTS

Introduction to Drama 9th-12th 1 sem./1 Year ½ /1Credit

Prerequisite: None

This course is designed to offer students the opportunity to read, view, and discuss different forms of theater and to learn about the technical aspects of a theatrical production. Students will learn about themselves and others by creating characters and situations and by becoming physically, emotionally, and intellectually involved with them. Elements of this class will include memorizing scenes, learning improvisation techniques, reflecting through writing and performing in front of a live audience

Foreign Language

Spanish 1 9th-12th 1 Year 1 Credit

Prerequisite: None.

This is a beginning course in the study of the Spanish language and culture with emphasis on the spoken and written word. This is a college preparatory class.

Spanish 2 10th-12th 1 Year 1 Credit

Prerequisite: Spanish 1 with a minimum of a "B" average or better.

This course is a continuation of Spanish 1 with emphasis on communication skills-both spoken and written. The greater emphasis will be on grammar and sentence structure.

Life Skills

Teen Life Skills 9th-12th 1 Semester ½ Credit

Prerequisite: None

This class is designed to help students learn the skills needed for a successful transition to adult life. The course is flexible and is based upon the needs and interests of the students. Some example units are: exploring careers, building relationships, managing your life (time and money), and food and nutrition.

Parenting 9th-12th 1 Semester ½ Credit

Prerequisite: None.

Parenting is a course for students who hope to become parents one day and/or those interested in a child-related career such as teaching or child care. Students will learn the skills needed to care for, nurture, and guide children from infancy through adolescence. Every student will experience caring for a “Baby Think About It” doll for one week of the course.

Math

Pre-algebra 9th 1 Year 1 Credit

Prerequisite: 8th grade teacher recommendation

The topics covered during the first semester include number properties, integer operations, factors, equations, exponents, rational numbers, proportions, and linear functions. During second semester emphasis would be placed on algebraic concepts such as solving equations and inequalities, polynomials, and nonlinear functions.

Algebra 1 9th-12th 1 Year 1 Credit

Prerequisite: Teacher recommendation

The material in this course will include all of the basic skills of elementary algebra. These will include solving equations and simplifying expressions with variables, graphing and working with linear equations and inequalities, the real number system including simplifying radicals, elementary probability and statistics, simple quadratic equations and exponentials, and applications of algebra.

Algebra 2 10th-12th 1 Year 1 Credit

Prerequisite: Algebra 1 and Geometry

In this course, advanced high school algebra topics will be taught. These will include functions and their inverses, conic sections, simultaneous equations, quadratic functions and the quadratic formula, inequalities, radicals, exponential functions, and other advanced algebraic concepts.

Algebra 2 (A) 11th 1 Year 1 Credit

Prerequisite: Algebra 1 and Geometry and recommendation of the math department.

This is the same course as listed above except that students will have one year (two semesters) to master the course work covered in the first semester.

Algebra 2 (B) 12th 1 Year 1 Credit

Prerequisite: Algebra 1 and Geometry and recommendation of the math department.

This course covers the second semester of Algebra 2 over the course of a full year.

Geometry 9th-12th 1 Year 1 Credit

Prerequisite: Algebra 1 or teacher recommendation

This course is designed to teach students all of elementary Euclidean geometry. Students will study deductive reasoning and proofs, polygons and their properties, three dimensional graphing and figures, properties of points, lines and planes in space, and a variety of other geometric concepts. Algebra will be integrated into many of the geometry skills being taught.

Trigonometry/Pre-Calculus 10th-12th 1 Year 1 Credit

Prerequisite: Algebra 2.

Advanced algebra and pre-calculus topics will be taught in this course. These will include the study of operations and transformations of functions, exponential and logarithmic functions and their application, all areas of trigonometry (both pre-calculus trigonometry and right angle trigonometry), and other areas of advanced mathematical study as time allows.

Calculus 11th-12th 1 Year 1 Credit

Prerequisite: Trigonometry/Pre-calculus

This course focuses on the study of differential calculus which will be approached from both the traditional and the modern numerical method so that students will have some familiarity with both when they take college calculus. If time allows, integral calculus will be studied in a similar manner. This course is not intended to be the equivalent an advanced placement course. Rather, it will provide a chance for students to learn calculus at a slower pace than they would encounter in college.

AP Calculus 11th-12th 1 Year 1 Credit

Prerequisite: Trigonometry/Pre-calculus

A comprehensive study of differential calculus will be undertaken along with a significant amount of study of integral calculus. These topics will be studied numerically, graphically, and analytically to help prepare student s for any of the many instructional methodologies used in college calculus classes. Students will have the opportunity to take the AB Calculus Advanced Placement test in the spring of this course.

Mathematical Applications 12th 1 Year 1 Credit

Prerequisite: Successful completion of Algebra 2

This course is for seniors who do not wish to move on to pre-calculus. It will cover problem solving, critical thinking, set theory, logic, number theory, consumer mathematics and financial management, counting methods and probability, statistics, voting and apportionment, and graph theory.

Consumer Mathematics 11th-12th 1 Year 1 Credit

Prerequisite: Approval of current math teacher

This class is designed to apply past knowledge, concepts, and skills to real world applications. Topics will include finding employment and computing pay scales, insurance costs and payroll deductions, planning a budget, basic purchases, checking and savings accounts, credit and finance charges, filing income tax, housing costs and living expenses, and investments.

Music

Senior High Band 9th-12th 1 Year 1 Credit

Prerequisite: Approval of instructor.

High school band is organized on a four-year instructional basis and is designed to help musically talented students to grow in the skills and the knowledge required in the performance of the finest pieces of music literature. Special emphasis is placed upon the different stylistic devices used in the different periods of composition. The band performs at winter and spring concerts, various parades, football and basketball games, and MSBOA competitions. Previous training is a special requirement for this course.

Choir 9th-12th 1 Year 1 Credit

Prerequisite: Approval of instructor.

This course is open to students who have an interest in vocal music and have some ability to sing. The chorus will perform works of various styles from past to present. Special emphasis will be given to music reading and the development of two (2) and three (3) part harmonies.

Physical Education

Health 9th 1 Semester ½ Credit
Prerequisite: None.
This course presents the student with a variety of health topics including but not limited to physical health, mental health, nutrition, physical fitness, human development, substance abuse, and modern health problems.

Physical Education 9 9th 1 Semester ½ Credit
Prerequisite: None.
This course presents the student with the basic fundamentals of a variety of team and individual sports. It also stresses conditioning and the importance of being physically fit.

Advanced Physical Education 10th-12th 1 Sem/1 Year ½ / 1 Credit
Prerequisite: Physical Education 9.
Activities in this class will include basketball, softball, field hockey, badminton, team handball, weightlifting, pickleball, volleyball, and kickball. A student's grade will be determined by three things: dress, participation, and behavior. Students are required to participate every day. A non-participation day will lower a student's grade by 10%. Good sportsmanship and teamwork are essential components of this class.

Weights & Conditioning 10th-12th 1 Sem/1 Year ½ / 1 Credit
Prerequisites: Physical Education 9
This course is designed to help all students increase their strength and conditioning. Students will be graded on attendance, participation, and athletic achievement.

Leadership for Life 9th-12th 1 Sem/1 Year ½ / 1 Credit
Prerequisite: Recommendation of football coach
This course is designed to enhance leadership skills in student-athletes through a variety of mental, physical, and hands-on training activities. These activities will include weight-training, conditioning, exercises, team sports, and a mentoring program involving elementary and junior high students. Students in this class will be selected by coaches and staff based upon the students' character and individual qualities. This course will motivate students to become examples of true leadership. Ninth grade students may elect this class only second semester. Twelfth grade students may elect this class only first semester.

Aerobics 9th-12th 1 Sem/1 Year ½ / 1 Credit
Prerequisite: None
This course is designed for the student who wants to improve his or her endurance, strength, flexibility, and muscle tone. Emphasis will be placed on aerobic dancing. Many of the following will also be included in the workout regiment: walking, jogging, jump roping, stair climbing, exercise bands, kick-boxing, Pilates, and yoga.

Science

Biology 9th 1 Year 1 Credit
Prerequisite: None
Biology deals with the basic understanding of the science of living things. A combination of lecture, class discussion, laboratory investigations, and dissections will be used. The Internet will be used as a resource for research as well as for supplementing and further exploring various topics throughout the year. The goal is to allow students to become better educated in the areas of life processes, cellular activities, photosynthesis, genetics, and the five (5) kingdoms of organisms. Biology will enable students to better understand the living things around them.

Integrated Science 10th 1 Year 1 Credit

Prerequisite: None

In this course essential concepts of physics and chemistry will be explored in preparation for the study of chemistry or physics the following year.

Advanced Biology 11th-12th 1 Year 1 Credit

Prerequisite: Biology with a minimum of a "B" average.

This class is designed for the advanced student. A lecture format will be used along with small group activities, laboratory investigations, and dissections. The Internet will serve as both a research tool and as a supplement to topics discussed in class. The course will cover topics related to the structure and function of the human body. It will focus on the interaction of the many organ systems of the body as well as on the diseases and the treatment of those diseases that affect the human body.

Chemistry 11th-12th 1 Year 1 Credit

Prerequisite: Algebra 1.

This course investigates the composition of matter and the chemical and physical changes of matter. The course includes lab sessions. Strong math skills are recommended.

Physics 1 11th-12th 1 Year 1 Credit

Prerequisite: Algebra 1 and geometry.

This course applies mathematics to the physical world, developing and discovering relationships between mathematics and science. Theory, lab work, and problem solving are combined in all areas. Topics studied will include measurement, force, motion energy, heat, wave motion, sound, light, electricity, electromagnetism, quantum theory, and nuclear physics as time allows.

Advanced Physics 12th 1 Year 1 Credit

Prerequisite: Physics 1

Students will enroll in Adv. Physics but will attend the Physics 1 class (unless enrollment allows the creation of a separate adv. physics class) and will do an independent study while there. Students will study core physics concepts which were not explored in depth in Physics 1. They will make presentations to the Physics 1 class, solve algebra-based problems of a more challenging level, and be assessed on their progress as independent learners.

Botany 11th-12th 1 Sem ½ Credit

Prerequisite: Biology

This class will be offered second semester to allow outdoor and greenhouse plant cultivation. Students will learn to identify plants, know the basic structures of plants, and study the life cycles of plants. They will then apply botany concepts in a culminating project involving growing plants and doing basic landscape design.

Zoology 11th-12th 1 Sem ½ Credit

Prerequisite: Biology

This course will provide further in-depth study of the animal kingdom. It may include some study of zoos and aquariums with emphasis on exhibit design, animal behavior, and animal ethics.

GENERAL ELECTIVES

Community Service 9th-12th 1 semester ½ Credit

Prerequisite: Letter of Recommendation

The community service program provides students with an opportunity to serve others in need. This program offers students an opportunity to develop interaction skills, personal responsibility, and a positive self-concept as well as to explore career options. Placements are available during or after the school day. Students who wish to participate in this program must submit a letter of recommendation and have no prior attendance problems before placement. All community service contracts must be approved prior to course selection and registration. The student, with parent consent, will provide his/her own transportation. One hundred hours of service must be completed before credit is given. The student is also required to attend group meetings and to submit a written paper about the community service learning experience.

Independent Study 11th-12th 1 semester only ½ Credit

Prerequisite: Must have a 3.5 grade point average

Independent study is designed for those students with a high interest in a specific subject area who wish to explore this area in ways not available through the traditional curriculum. This course will entail the design of a significant research project which will include (but is not limited to) a final and substantial thesis essay and/or presentation. This is a rigorous course and may be selected only after obtaining the necessary signatures on an independent study contract prior to registration.

Program of Assistance for General Education Students (PAGES) 9th-12th 1 Sem/1 Year ½ / 1 Credit

Prerequisite: Evidence of need or staff referral

The PAGES program provides assistance and support to students with academic problems who are not certified eligible for special education. Students in the program must have a desire to succeed in school and must be willing to accept assistance. The PAGES teacher will work closely with students on a variety of learning and study strategies. Tutoring is also available. Enrollment is limited to students who meet specific eligibility requirements.