

Memphis Jr/Sr High School



Course Offering Catalog 2023-2024

Please read the following course descriptions carefully before making your course selections. The options below are available course offerings within Memphis Community Schools. Actual courses will be determined by the number of student requests that create a full class to run the course. 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

Dual Enrollment	Ninth through twelfth grade students may enroll in community college classes in addition to their Memphis High School classes if they qualify based on test scores. 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.. 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 (.5) 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.
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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

Students may drop or add a course for a period of up to one (1) week 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 may be requested for 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.

Occasionally a student will be requested to change a class because of scheduling conflicts or class overloads. Any drop/add after the second week must be approved by the principal.

Grade Point

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.

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

TEC Center

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).

Michigan State Requirements
High School Diploma: Total Credits – 22

English -- 4 Credits

English 9 1 Cr.
 English 10 1 Cr.
 English 11 1 Cr.
 English 12, OR AP Lit 1 Cr.

Science -- 3 Credits

Biology 1 Cr.
 Chemistry/Physics 1 Cr.
 3rd Science Elective 1 Cr.

Phys. Ed. & Health --1 Credit

Physical Ed. ½ Cr
 Health ½ Cr.

Math – 4 Credits

Algebra 1 1 Cr.
 Geometry 1 Cr.
 Algebra 2 1 Cr.
 Math Exp. Senior Year 1 Cr.

Social Studies – 3 Credits

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

World Language – 2 Credits

Fine Arts – 1 Credit

Electives – 4 Credits

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
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Automotive Technology 11th&12th 4 Semesters 6 Credits

The Automotive Technology program is nationally certified by NATEF/ASE. First-year students study vehicle safety, maintenance, and light repair. Upon completion of these areas, they complete braking systems and steering and suspension systems. During the second year, students study electrical and engine performance.

Collision Repair 11th&12th 4 Semesters 6 Credits

Students who have a passion for vehicle restoration and repair are well matched for a career in collision repair. Collision repair specialists take pride in seeing damaged vehicles leave the shop looking as good as new. Students who successfully complete the National Automotive Technicians Education Foundation certified Collision Repair program have the opportunity to take the state of Michigan Mechanics Certification test in Unitized Body Structural Repair.

Computer Programming 11th&12th 4 Semesters 6 Credits

Computer Programming is ideal for students who are pursuing careers related to programming and researching, designing, and testing computer software. Computer programming can be applied to a variety of career fields such as software development, web development, database management, engineering, and game development.

Students will be introduced to the basics of computer programming using Scratch and Python programming languages. As students advance through the program they will learn Java and C# programming languages.

Students will have the opportunity to focus on creative problem solving and real-world applications. The opportunity to earn the MTA Microsoft Technology Associate Certification will be available to students.

Construction Trades 11th&12th 4 Semesters 6 Credits

First-year Construction Trades students complete core work and then study carpentry (rough and finish), electrical, exterior finishes, masonry, plumbing, and roofing. Training takes place in the classroom and construction lab. Safety and technical skills are practiced in the lab.

Successful completion of the first year is required for placement in the second year program. Students will be placed either at an internship or paid work-based learning site and will receive training/experience in areas such as carpentry; electrical; exterior finishes; masonry; plumbing; roofing; building maintenance; and heating, ventilation and air conditioning (HVAC). A TEC coordinator regularly visits students at their internship or work-based site. All second-year students must provide their own transportation and return to TEC two days a month to meet with the coordinator.

Cosmetology 11th&12th 4 Semesters 6 Credits

Cosmetology is for students who love working with hair, enjoy working with people, and have an artistic flair. Students who successfully complete the Cosmetology program take the state examination and become licensed cosmetologists.

The Cosmetology program offers training in the classroom and clinical setting. 1,500 hours of training are required during the junior and senior year of high school. Students must begin the program as a junior. Initially, students complete 350 hours of instruction and practice on mannequins in the training lab. Upon completion of the required training and hours, and with their instructor's approval, students advance to the clinical setting in which they work on clients in the school's full-service salon (clinical floor). Senior Cosmetology students attend TEC for eight weeks during the summer and have extended hours during their senior year.

Culinary Arts 11th&12th 4 Semesters 6 Credits

The Culinary Arts program offers training to students aspiring to be chefs, cooks, bakers or caterers. Students are trained in food preparation, cooking, baking and hospitality management in a commercial kitchen. Instruction is provided in a variety of cooking and baking techniques. Advanced students may request an internship in meat cutting.

Cybersecurity 11th&12th 4 Semesters 6 Credits

Cybersecurity is dedicated to training students in computer repair, networking, and security; introducing students to IT concepts and networking and progressing into key security operation functions: detection, investigation, and remediation. Students will also utilize the knowledge and skill acquired throughout the two years in a work-based learning experience and by running the TEC Helpdesk, which is a student-run computer repair business.

TEC prepares students to become certified in CompTIA, IT Fundamentals, Network+ and Security+. These are nationally recognized credentials. For more information regarding CompTIA, go to comptia.org.

Digital Media Technology 11th&12th 4 Semesters 6 Credits

Students will receive an introduction to new media production techniques including audio, video, and graphic design. Students will use Mac computers to complete media projects using the Adobe Creative Cloud package which includes Photoshop, Illustrator, Audition, After Effects, and Premiere Pro software programs.

Education 11th-12th 4 Semesters 6 Credits

The Education and Early Childhood Development program is designed to meet student interest and the local demand for Pre-K–12 teachers and skilled childcare workers. First-year students will explore careers in education, develop independent learning skills, and shadow a professional for a day. Second-year students will intern in a local school district, preschool, or childcare setting, working under a licensed professional or certified teacher's supervision. The two-year program will offer students the opportunity to earn a certificate in one of two areas of study—Early Childhood Education or Pre-K–12 Education.

Engineering & Robotics11th-12th

4 Semesters

6 Credits

Engineering and Robotics is the merging of multiple engineering disciplines into a broader field. Students are taught the integration of electronics, mechanics, pneumatics, and programming to create economical, efficient and reliable automated systems that are used in industrial, medical, residential and commercial settings as well as in efficient transportation systems.

Students will learn the basic concepts necessary to design, build, maintain and control robots and other automated systems. They will complete FANUC America's "Certified Education Robot Training" (CERT) and may earn a Level I and Level II industry certification.

Health Careers11th&12th

4 Semesters

6 Credits

All first-year Health Careers students complete core studies and then participate in the Certified Nursing Assistant or the Health Careers Exploration course.

Students who choose Nursing Assistant prepare for clinical training at a long-term care facility. Students study the care of residents/patients, infection control, safety procedures, rehabilitation, and interpersonal/communication skills. Upon completion of classroom, lab, and the clinical experience, students take the Michigan Comprehensive Evaluation Examination to become Certified Nursing Assistants. Students who successfully complete Nursing Assistant and earn their Certified Nursing Assistant certification (CNA), will have the opportunity to participate in either Paid Work-Based Learning or a Health Careers Internship during their second year at TEC.

Students who choose Health Careers Exploration will have the opportunity to learn about six areas within health careers. They will study areas of interest, complete written assignments, and will participate in job shadows at medical facilities that are related to their areas of interest. Students who successfully complete Health Careers Exploration will have the opportunity to be recommended to participate in a Health Careers Internship in their second year at TEC.

Students who want to advance to the second-year must receive the recommendation of their first-year instructor.

Engineering & Robotics11th-12th

4 Semesters

6 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 Machining11th&12th

4 Semesters

6 Credits

Students in the Metal Machining Technology program will learn how to manufacture products using precision machinery that is recognized in today's industry. Students will be exposed to design concepts that incorporate different manufacturing processes that lead to a final consumer product. The Metal Machining Technology program is taught in a blended learning environment using online curriculum, classroom instruction, and hands-on lab work.

Welding Technology11th&12th

4 Semesters

6 Credits

This program offers students the opportunity to develop a thorough understanding of welding technology. Students will learn to weld in various positions using a variety of techniques and materials such as steel, stainless steel, and aluminum.

Employer Based Programs

Employer-based programs provide training opportunities in career areas not available at the St. Clair TEC facility. Employer-based students receive training at an assigned location from personnel employed there.

Students are considered trainees and do not receive pay. Students must complete all state competencies and regularly report to TEC to complete the curriculum requirements.

A Work-Based Learning Coordinator makes regular visits to the sites. Students follow a pre-established curriculum, daily attendance is recorded, and letter grades are issued for performance.

Students must provide their own transportation to their assigned training site. All employer-based students must submit an up-to-date Educational Development Plan to their high school counselor before being placed in an Employer-based Program. A parent/student orientation meeting is required.

Visual or Performing Arts

Intro. to Art	9 th -12 th	2 Semesters	1 Credit
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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 Art	10 th -12 th	2 Semesters	1 Credit
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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.

Drama	9 th -12 th	2 Semesters	1 Credit
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Prerequisite: None.

Drama students practice character analysis and learn how to create a dramatic character. Students may learn by performing the works of classic playwrights, such as Stanislavsky, Meisner and Chekhov. Acting skills are developed through improvisations, scene work, focused theater exercises, group work and monologs.

Yearbook	9 th -12 th	2 Semesters	1 Credit
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Prerequisite: None.

This course is designed to develop students' skills in yearbook production by providing experiences in selected aspects of yearbook production. Students learn basic principles of yearbook production and develop skills that include writing copy, captions and headlines; digital photography; desktop publishing and using appropriate technology tools for media production.

Pottery and Sculpture	9 th -12 th	2 Semesters	1 Credit
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Prerequisite: None.

Students will experience every aspect of what it's like to be a working ceramic artist: clay making, different glaze processes, and loading and firing kilns. Students explore both wheel throwing and handbuilding and a wide range of surface techniques.

English

ELA 1	9 th	2 Semesters	1 Credit
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Prerequisite: 8th grade teacher recommendation

English/Language Arts I (9th grade) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

ELA 2	10 th	2 Semesters	1 Credit
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Prerequisite: For students who have met 9th grade reading and writing standards
English/Language Arts II (10th grade) courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

ELA Literature & Language 9th/10th 2 Semesters 1 Credit

Prerequisite: Staff Recommendation

English/Literature (freshmen and sophomores) courses are designed for freshmen and/or sophomores and typically introduce them to two or more genres of literature (novel, short story, poetry, and so on). Exploration of each genre's literary elements; determination of theme and intent; and examination of vocabulary and semantics are often included in the course content. Writing assignments are required as an additional method to improve understanding and comprehension.

ELA Literature & Language 11th/12th 2 Semesters 1 Credit

Prerequisite: Staff Recommendation

English/Literature (juniors and seniors) courses are designed for juniors and/or seniors and emphasize comprehension, discernment, and critical-thinking skills in the reading of texts and literature. These courses introduce and explore more advanced literary techniques (irony, satire, humor, connotation, tone, rhythm, symbolism, and so on) through two or more literary genres, with the aim of creating sophisticated readers. Writing assignments are required as an additional method to develop and improve critical-thinking and analytic skills.

ELA Honors 9th / 10th 2 Semesters 1 Credit

Prerequisite: Staff Recommendation

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. Students determine the underlying assumptions and values within the selected works, reflect upon the influence of societal events and social attitudes, and compare the points of view of various authors. Oral discussion is an integral part of literature courses, and written compositions are often required. Writing assignments will reinforce and add to the grammar, vocabulary, and writing skills developed in previous courses.

ELA 3 11th 2 Semesters 1 Credit

Prerequisite: For students who have met 10th grade reading and writing standards

English/Language Arts III (11th grade) courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

ELA 4 12th 2 Semesters 1 Credit

Prerequisite: For students who have met 11th grade reading and writing standards

English/Language Arts IV (12th grade) courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

AP Literature & Composition 12th 2 Semesters 1 Credit

Prerequisite: Grade of B or better in previous English classes

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich

their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing).

AP Language & Composition 11th -21th 2 Semesters 1 Credit

Prerequisite: Grade of B or better in previous English classes

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. These courses emphasize the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes.

World Language

Spanish 1 7th-12th 2 Semesters 1 Credit

Prerequisite: None.

Designed to introduce students to Spanish language and culture, Spanish I courses prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices, and perspectives of Spanish-speaking cultures.

Spanish 2 9th-12th 2 Semesters 1 Credit

Prerequisite: Spanish 1 with a passing grade.

Spanish II courses build upon skills developed in Spanish I, preparing students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics. Spanish II courses introduce the relationships among the products, practices, and perspectives of Spanish-speaking cultures.

Spanish 3 10th - 12th 2 Semesters 1 Credit

Prerequisite: Spanish 2 with a passing grade.

Spanish III courses prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices, and perspectives of Spanish-speaking countries and cultures.

Spanish 4 10th - 12th 2 Semesters 1 Credit

Prerequisite: Spanish 3 with a passing grade.

Spanish IV courses prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. Spanish IV courses promote students' understanding of the relationships among the products, practices, and perspectives of Spanish-speaking countries and cultures.

Math

Algebra 1 9th-12th 2 Semesters 1 Credit

Prerequisite: Teacher recommendation

Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first-degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.

Algebra 2 10th-12th 2 Semesters 1 Credit
Prerequisite: Algebra 1 and Geometry
 Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher-degree equations; and operations with rational and irrational exponents.

Algebra 2 (A&B) 11th 2 Semesters 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.

Geometry 9th-12th 2 Semesters 1 Credit
Prerequisite: Algebra 1 or teacher recommendation
 Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

Pre-Calculus 10th-12th 2 Semesters 1 Credit
Prerequisite: Algebra 2.
 Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Mathematic Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

Calculus 10th-12th 2 Semesters 1 Credit
Prerequisite: Algebra 2.
 Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and mathematic analysis).

AP Calculus 11th-12th 2 Semesters 1 Credit
Prerequisite: Grade of B or better in Precalculus
 Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus AB provides students with an understanding of the concepts of calculus and experience with its methods and applications. These courses introduce calculus and include the following topics: functions, graphs, limits, and continuity; differential calculus (including definition, application, and computation of the derivative; derivative at a point; derivative as a function; and second derivatives); and integral calculus (including definite integrals and antidifferentiation).

Statistics and Probability 11th-12th 2 Semesters 1 Credit
Prerequisite: Algebra 2
 Probability and Statistics courses introduce the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.

Personal Finance 11th-12th 2 Semesters 1 Credit

Prerequisite: Approval of current math teacher

Consumer Mathematics courses reinforce general mathematics topics (such as arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations. Applications typically include budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and/or car ownership and rental, managing personal income, and investment.

Music

Senior High Band 9th-12th 2 Semesters 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 2 Semesters 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 or 2 Semesters ½ or 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.

Fitness 10th-12th 1 or 2 Semesters ½ or 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 10th-12th 1 or 2 Semesters ½ or 1 Credit

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.

Science

Biology 9th 2 Semesters 1 Credit

Prerequisite: None

Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

Advanced Biology 11th-12th 2 Semesters 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.

Advanced Placement Biology 11th - 12th 2 Semesters 1 Credit

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

Advanced Placement Biology is a yearlong introductory college level survey course in Biology designed to prepare students for the College Board Advanced Placement examination that is given in early May. This course allows you to pursue and in-depth analysis of biological concepts and gain an appreciation of the workings of the living world. Particular topics studied are: evolution, energy transformations, information transfer, and biological interactions.

Chemistry 10th h 2 Semesters 1 Credit

Prerequisite: Algebra 1

Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

Physics 10th-12th 2 Semesters 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.

PBL Science 11th/12th 2 Semesters 1 Credit

Prerequisite: Biology & Chemistry

In Scientific Research and Design courses, students conceive of, design, and complete a project using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcome(s).

Botany 11th-12th 1 Semester ½ Credit

Prerequisite: Biology

Botany courses provide students with an understanding of plants, their life cycles. 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 Semester ½ Credit

Prerequisite: Biology

This course will provide further in-depth study of the animal kingdom. Zoology courses provide students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their relationships to other organisms. These courses should also help students develop an awareness and understanding of biotic communities.

Social Studies

Psychology 11th-12th 2 Semesters 1 Credit

Prerequisite: None

Psychology is a general introduction to principles and theories of human behavior. This course will focus on various topics including sensory perceptions, human development, social behavior, and other current concepts in the field of psychology.

AP Psychology 11th - 12th 2 Semesters 1 Credit

Prerequisite: 3.5 GPA or above

An advanced Psychology class studying in-depth theory taking further the concepts learned in Psychology. Students can take the AP test at the end of the year to earn college credit.

U.S. History 9th 2 Semesters 1 Credit

Prerequisite: None

This course is required of all students for graduation. This course surveys United States and American history from the Civil War until the present. The development of the United States government, economic system and military will be explored as well as the history of American people, society, and culture. American core democratic values and United States constitutional principles will be reinforced throughout the year.

Economics 2 11th 1 Semester ½ Credit

Prerequisite: None

Economics will introduce students to basic economic concepts such as consumerism, credit and banking, supply and demand, and starting a business. Microeconomic topics such as competition, monopolies, and the American labor force will be covered. The effects of Macroeconomics upon the nation's economy and the international scene will be discussed.

American Government 11th-12th 1 Semester ½ Credit

Prerequisite: None

This class will study the three branches of government and government at various levels: local, state, and federal. Students will explore the function and impact of government and its relevance in today's global society.

World History 10th 2 Semesters 1 Credit

Prerequisite: None

This course will study the development of both Western and non-Western societies. Geography and culture will be emphasized. Focus also will be placed on the interactivity and interdependence of nations and history's impact on today's global situation.

AP US History 10th - 12th 2 Semesters 1 Credit

Prerequisite: US History

An advanced study of US History - an intense class that will prepare students for the AP US History exam to earn college credit.

AP Government 10th - 12th 2 Semesters 1 Credit

Prerequisite: US History & World History

AP Government is a one-semester college level American Government online course offered to students who wish to be academically challenged and take the Advanced Placement exam. It is a survey course that provides an introduction into the operation of the American national government.

GENERAL ELECTIVES

Peer to Peer 9th-12th 2 semesters 1 Credit

Students are paired up with a student with a disability and will attend class with that student daily (grades elem - hs). The focus is to assist those students with social behavior and academic support.

Independent Study 11th-12th 1 or 2 Semesters ½ or 1 Credit

Prerequisite: Must have a 3.5 grade point average and teacher approval.

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.

Online Courses

Michigan Virtual: The courses are provided through Michigan Virtual Academy - the courses are teacher-led and therefore students will be awarded a letter grade based on the percentage earned at the end of the first semester which will affect your student's GPA. The available courses can be found at:

<https://michiganvirtual.org/courses/students/> (Policy #2370.01)

Edgenuity: The credit recovery course is provided through **Edgenuity** which is a teacher-facilitated course and therefore, will be awarded only credit or no credit based on their percentage earned (60% or higher will be granted credit) and will NOT affect your student's GPA. Available courses include the corresponding course offered in the MCS catalog that necessitates credit recovery. (Policy #2370.01)

Graduation Alliance: The credit recovery course is provided through **Graduation Alliance** which is a teacher-facilitated course and therefore, will be awarded only credit or no credit based on their percentage earned (60% or higher will be granted credit) and will NOT affect your student's GPA. Available courses include the corresponding course offered in the MCS catalog that necessitates credit recovery. (Policy #2370.01)

