

Marlette Junior/Senior High School

Course Selection Guide



2020-2021

At Marlette Junior/Senior High School, our mission is to graduate individuals who have a post-secondary plan and are both college and career ready. Making the most of the educational opportunities at Marlette will position students for success in an increasingly competitive workplace, so making good choices regarding course selection is important. Careful planning is essential when it comes to course selection, and working hard in the courses chosen helps to ensure future success after high school.

This guide is offered as an aid to students and parent in making course selections for the student's schedule. The student's past achievement, aptitude, interests and future plans should be considered in the final decisions involving the mutual agreement of student, parent and counselor.

Helpful Hints for Planning Your Schedule:

- Think ahead about your career goals. Your high school courses are preparing you for college and future employment.
- Review courses you may want to take in the future to see if there are any prerequisite classes you should be taking now.
- Good grades and experiences that includes academic achievement, extra-curricular involvement (band, sports, etc.), volunteering and community service, and participation in leadership roles, are all part of preparing for a successful life after high school. Most colleges look for students with focused experiences, not just those with good grades.
- A signed course selection sheet is required and constitutes a one-year agreement between parent, student and school.

Master schedule development and staff positions are based upon students' course requests so students should carefully select courses based on their postsecondary plans, interests, and abilities. Student-initiated requests for schedule changes will only be considered prior to or at the start of each semester during a designated period of time.

Schedule changes will ONLY be honored for academically based reasons such as:

- Incomplete schedule
- Lacking a required course for graduation
- Lacking the proper prerequisite class
- Failing a required course
- Previously completing a credit recovery or summer school course

Schedules will NOT be changed for the following:

- Preference for a different lunch period
- Preference to be in classes with friends
- Preference for a different period or semester
- Changed mind about taking a course
- Preference for a different teacher

All schedule changes must be completed within the first week of the semester.

1 semester = .5 credit

Meeting the requirements in the following areas is the responsibility of the student:

| CONTENT AREA | CREDITS | COURSES |
|--|-----------|---|
| ENGLISH/LANGUAGE ARTS | 4 | English 9 English 10 English 11 OR Honors English 11 English 12 <i>or College-level equivalent</i> |
| MATH | 4 | Algebra I Geometry Algebra II College-level math classes Senior Math Class |
| SCIENCE | 3 | Biology or Physical Science (Gr. 9) Chemistry OR Physics (Gr.10-12) Science Elective (Gr. 11-12) |
| SOCIAL STUDIES | 3 | U.S. History (Gr.9) World History (Gr. 10) Civics/Economics (Gr.11-12) |
| COMPUTERS/TECHNOLOGY | 1 | Careers & Technology (Gr. 10) Technology elective classes |
| HEALTH | .5 | Health |
| PHYSICAL EDUCATION | .5 | Physical Education |
| VISUAL, PERFORMING AND APPLIED ARTS | 1 | Art, Band, Music Appreciation, Music Technology, Yearbook, Career Center Programs |
| WORLD LANGUAGE (Class of 2016 & beyond) | 2 | Spanish 1 Spanish 2 |
| ELECTIVES | 3 | Choice of classes |
| TOTAL POSSIBLE | 24 | |
| TOTAL REQUIRED | 22 | |

Graduation requirements are subject to change based on Board of Education approval.

- The graduation courses listed are the minimum requirements.
- All students must be enrolled full-time each year regardless of credits needed to meet graduation requirements.
- Students and their parents should monitor credits earned towards graduation.
- Students must complete all graduation requirements in order to participate in commencement exercises, unless a special circumstance is approved by the principal and/or superintendent.
- All Marlette Community Schools' students are required to take all state required assessments (PSAT, SAT, WorkKeys, M-Step) and are expected to put forth their best effort.

Marlette Junior/Senior High School offers a limited number of Advanced Placement (AP) courses on a rotating year basis, based on enrollment. These courses meet the requirements of the College Board Advanced Placement curriculum. This rigorous program exposes high school students to college-level material through involvement in an AP course and it gives them the opportunity to show they have mastered the material by taking an optional exam in May. The approximate cost of an exam is \$94. Colleges and universities may grant credit, placement, or both, to students (based on qualifying exam scores of 3, 4 or 5), which can result in a significant savings on college tuition. The AP program allows students to learn a subject in greater depth, practice higher-level thinking skills, lay the groundwork for future challenges, and acquire the self-discipline necessary for high academic achievement. Since taking an AP exam is optional, students are responsible for registering for the exam and paying fees associated with it. Fee waivers for the exam(s) are available to students who qualify.

AP courses typically require advanced research, reading and writing and are designed for students who desire a **rigorous** curriculum to reach their full potential. Registration in Advanced Placement courses should be carefully considered because the work in these courses and the pace at which the courses are taught will be advanced and commensurate to college-level work. Students must understand that, upon registering for an Advanced Placement course, they are committed to that decision and understand that they will not be allowed to drop the course(s). For further information regarding AP, visit the web site at www.exploreatp.org.

In accordance with the Post Secondary Enrollment Options Act, high school students have the opportunity to dual enroll in college courses at Michigan public or private colleges when certain criteria are met. The student may choose to earn both college and high school credit for these classes.

Partial or full tuition and fees for dual enrollment classes are paid by the school district. School districts are required to pay the lesser of: (a) the actual charge for tuition, mandatory course fees, materials fees and registration fees; or (b) the state portion of the student's foundation allowance, adjusted to the proportion of the school year they attend the post-secondary institution. The cost of books and transportation are not covered.

In order to qualify for Dual/Concurrent Enrollment and the payment of tuition and fees, the following criteria must be met:

- The student must be a high school junior or senior.
- The student must have qualifying scores on the PSAT or SAT.
- The student must be enrolled as a full-time student at Marlette Junior/Senior High School.
- The college course must be an academic course related to the student's career pathway and postsecondary plan. It cannot be an activity or recreation course.
- The college course must be offered during the regular school year, not during the summer.
- Students may not take more than a maximum of 10 college courses.

All dual enrollment classes will be listed on a student's high school transcript and each class will earn .5 credit towards high school graduation requirements regardless of the number of college credits the class is worth.

Students are responsible to confirm that the dual enrollment credits will transfer to the colleges they plan to attend after high school. Not all colleges/universities accept all dual enrollment credits.

It is the student's responsibility to request to have their college transcript sent to the college they plan to attend.

Students interested in Dual Enrollment, should contact our counselor for more information and to obtain and complete the required applications and forms.

ONLINE COURSES

Marlette Junior/Senior High School strongly believes that face-to-face classroom instruction at the school is the best learning environment for students. If the opportunity exists for students to enroll in a face-to-face course offered at school, they are strongly encouraged to do so. Section 21f of the Michigan School Code permits students to enroll in up to two online courses per semester.

We recommend that a student should only choose an online course if (1) a desired course is not offered by Marlette Junior/Senior High School or (2) a student's course schedule presents a conflict which prohibits the student from enrolling in a face-to-face course offered at our school. An online course should not be chosen if our school offers the course and the course can be scheduled in the student's daily schedule.

In addition, a student may not enroll in an online course if (1) the course is not offered for credit, (2) the student previously gained credits in the course, (3) the course is inconsistent with the student's graduation requirements, EDP, or post-secondary plans, (4) the student does not possess the prerequisite knowledge and skills to be successful in the course, (5) the student demonstrated failure in previous online coursework in the same subject, (6) the course is of insufficient quality or rigor, as determined by the district, or (7) the cost of the course exceeds the district's foundation allowance.

Requirements:

Online learning presents challenges that are different from the face-to-face classroom experience. This form of learning requires a high degree of self-discipline and motivation; the ability to keep up with ongoing, and sometimes very demanding expectations without the constraints of a fixed time and place setting; and the ability to deal with isolation that may occur from this form of individual learning.

To be successful in an online class, a student must be a self-starter with a strong sense of direction, have the ability to set goals, and possess the perseverance to follow through. A successful online student will work independently, stay on task, and maintain a regular schedule of logging on and keeping up with readings, course assignments, homework and other expectations. The content of online courses is generally as rigorous as that found in a face-to-face classroom course. An online class is different, not necessarily easier or harder, and the added factor of self-motivation and self-discipline may cause additional challenges for a student.

Available Courses:

A Statewide Online Course Catalog, maintained by Michigan Virtual University, contains the syllabi for online courses offered by Michigan Virtual. The Statewide Online Course Catalog can be accessed at www.micourses.org. Any online course in which a student chooses to enroll must be for credit, consistent with graduation requirements, backed by a Michigan Certified teacher, of sufficient quality and/or rigor, and within the cost guidelines established in Section 21f of the Michigan School Code. If not, Marlette Junior/Senior High School may deny the student/parent request to enroll in an online course.

Cost:

If Marlette Junior/Senior High School approves a student to enroll in an online course, the course must be one of the student's six required classes per semester. The district will pay for the cost of the course up to 1/12 of the state's foundation allowance.

Enrollment:

If a student desires to enroll in an online course the student must submit an application by the application deadline. **Students who do not register and apply for an online course during Marlette Junior/Senior High School's registration and application period will NOT be permitted to enroll in an online course.**



Testing Out is an option for students to demonstrate a reasonable level of mastery of subject matter to meet course and program requirements and then to be placed at the next higher level. This option should be considered carefully as Testing Out may only be taken once for each course.

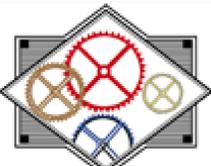
Marlette Community Schools, in compliance with the Michigan Merit Curriculum Law, will allow students to “test out” of any course or subject credit area in the Michigan Merit Curriculum. Students who are not enrolled in a course who attain a score of 75% or higher on a course assessment identified by the district will receive credit for the course. These assessments will be a sound demonstration that a student meets or exceeds the content expectations associated with the subject credit area. Because some end-of-course tests do not serve as comprehensive measures of content and skill “mastery” as expressed in the Michigan Merit Curriculum Law, students may be required to demonstrate a reasonable degree of mastery either through a written examination, written papers, portfolios, and/or other comparable forms.

Credit for a course earned by a student through the testing out process will be used to fulfill a course or course sequence graduation requirement and will be counted toward the total required number of credits needed for graduation. It will not be calculated into the student’s grade point average (GPA). A student who tests out of a higher-level course may not receive credit for a course that is in the same area, but lower in the course sequence.

Two “test-out” dates are scheduled each school year before the beginning of each semester. Students should contact the counselor or principal for more information about testing out.

One way to help students navigate among thousands of different occupations is focusing on the 17 Career Clusters. Career Clusters are groups of occupations in the same field of work that require similar skills. Each cluster contains several smaller groups called career pathways that connect to educational programs, industries, and careers. All pathways include a variety of occupations that require different levels of education and training, providing opportunities for all students and all ability levels.

Selecting Career Clusters of interest provides a focus for students to begin directing their studies and determining a tentative career “fit”. By identifying a career cluster, students are aided in selecting courses, extra-curricular activities and part-time employment. The following 17 Career Clusters have been identified by the state of Michigan:

| | |
|---|---|
|  | <p>Arts and Communication - Occupations in this career pathway are related to the creative, visual craft, and performing arts. This pathway includes careers such as graphic, interior, and fashion design; writing; film; fine arts; journalism; language; media; advertising; public relations; and music.</p> |
|  | <p>Business Management, Marketing, and Technology - Occupations in this career pathway are related to the business environment: administration, management, marketing and sales. This pathway includes entrepreneurship, sales, marketing, computer/information systems, finance, accounting, personnel, economics and management.</p> |
|  | <p>Engineering/Manufacturing and Industrial Technology - Occupations in this career pathway are related to the technology necessary to design, develop, install and maintain electrical, mechanical and structural systems. This career pathway includes engineering, manufacturing, construction, and related technologies.</p> |
|  | <p>Health Sciences - Occupations in this career pathway are related to the diagnosis and treatment of diseases, disorders and injuries, laboratory technology and therapy. This pathway includes medical practice; research; laboratory technology; physical, occupational and speech therapies; disease prevention; alternative medicine; and veterinary science.</p> |
|  | <p>Human Services - Occupations in this career pathway are related to the hospitality, personal and customer services; social services; legal services; and protective services. This pathway includes education, government, law and law enforcement, leisure and recreation, military, religion, childcare, social services and personal (beauty) services.</p> |
|  | <p>Natural Resources and Agriscience - Occupations in this career pathway are related to the natural sciences, agriculture and the environment. This pathway includes agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture and wildlife.</p> |

EDUCATIONAL DEVELOPMENT PLAN (EDP)

The state of Michigan requires that all students begin their Educational Development Plan (EDP) in the seventh grade and update it every year throughout high school. An EDP helps raise awareness of the connection between career goals and the credentials required to attain that goal.

Every student is provided with their EDP log-in information to **Xello**, an online career exploration and planning program. The program features: interest and skills assessment tools to help students identify their career cluster and career options; over 500 career profiles; a post-secondary school/college search; and Course Planner to track their progress towards meeting graduation requirements.

Students can access Xello at home or at school by logging onto xello.world where they can record their goals, awards, extra-curricular activities, volunteer and work experience during high school. They are encouraged to update their EDP on a regular basis and share it with their parents. Their EDP in Xello is an online filing cabinet of their high school accomplishments to use in completing college and scholarship applications.

ACCOUNTING I (11, 12)

Course Number: 12104A

Prerequisite: None

Length: 1 Semester

Credits: .5

Accounting is the universal language of business and personal records. Users of accounting information make important decisions that affect all aspects of a business. This class teaches the “Accounting cycle” of a small business, emphasizing basic accounting concepts and principles. Students will study the application of debit and credit as it applies to the recording of transactions, posting to ledger accounts, studying trial balances, closing the ledger, and completing financial reports of a business. Electronic accounting software will be introduced and used to solve various accounting simulations. Chapters 1-11 will be covered.

During the senior year, this course can count towards the senior math credit.

ACCOUNTING II (11, 12)

Course Number: 12104B

Prerequisite: Accounting I

Length: 1 Semester

Credits: .5

This course will further expand on the skills and principles learned in Accounting I.

This class may be offered in an independent study type environment where students must work independently and be self-directed learners able to work with minimum teacher intervention. Chapters 12-23 will be covered.

During the senior year, this course can count towards the senior math credit.

ENTREPRENEURSHIP (10, 11, 12)

Course Number:

Prerequisite: None

Length: 1 Semester

Credits: .5

Do you dream of owning your own business? This course can give you a head start in learning about what you’ll need to own and operate a successful business. Students will explore business plans, financing a business, and pricing products and services for a small business of their choice. They will work towards creating a presentation and sales pitch (think “Shark Tank”) for their business plan that could potentially be used to attract investors. Students will learn about small businesses, promotion, advertising, displays, presentations and finance. Students will also analyze past Shark Tank pitches during Shark Tank Fridays to assist with their own small business projects.

ENGLISH 9A/B COMPOSITION/LITERATURE (Grade 9)

Graduation requirement

Course Number: 011019, 010519

Prerequisite: None**Length:** 2 Semesters**Credits:** 1

This two semester course concentrates on the basic skills essential for effective writing and speaking. Students will review the foundations of grammar and usage and learn how to employ appropriate writing strategies to help them take charge of their writing and produce quality work. They will produce a descriptive essay, a personal narrative essay, a persuasive essay, and a study in poetry completed with a poetic critique. In the literature section, a wide variety of reading selections from various genres of literature, e.g., poetry, short stories, novel, non-fiction, and drama will provide a basis for literary analysis and development of critical thinking and reading skills. Students will demonstrate understanding of concepts and ideas presented by responding through written assignments and oral presentations.

ENGLISH 10A COMPOSITION (Grade 10)

Graduation requirement

Course Number: 011010

Prerequisite: English 9 Composition**Length:** 1 Semester**Credits:** .5

This is a one semester course focusing on more advanced skills needed for effective, scholarly writing. Students will study more complex grammatical construction and language usage, furthering their skills of organization and focus in written expression and developing their own distinctive voice and style in writing that commands attention and shows ownership of thought and expression. Building upon writing skills from the previous year, students will create and draft papers in expository, creative and technical genres of writing. Students will be instructed in the techniques of formal research and will be required to write a formal research paper.

ENGLISH 10B LITERATURE (Grade 10)

Graduation requirement

Course Number: 010510

Prerequisite: English 9 Literature**Length:** 1 Semester**Credits:** .5

A study of our American heritage through literature will be the focus of this sophomore level class. Reading selections from all genres of literature, e.g., poetry, short stories, novels, non-fiction, and drama, will provide students with a basis for literary analysis as well as the development of critical thinking and reading skills, demonstrating their understanding of the selections through speaking skills, and composition. Students will study and analyze literature that traces the course of the great American dream from the beginnings of American history to present day.

ENGLISH 11A COMPOSITION (Grade 11)

Graduation requirement

Course Number: 011021

Prerequisite: English 10 Composition**Length:** 1 Semester**Credits:** .5

This is a one semester requirement covering the areas of speaking, language, listening, and composition. Building on skills learned in the previous years, students will further develop their skills in writing, working on organization, focus, voice, and conventions. Through written expression in the various genres of writing, students will review and practice vocabulary, grammar, and the conventions of writing—usage, mechanics, punctuations, and spelling. Students will hone their writing and language skills to prepare for the Michigan Merit Exam and ACT, given in the spring.

ENGLISH 11B LITERATURE (Grade 11)**Graduation requirement**

Course Number: 010521

Prerequisite: English 10 Literature**Length:** 1 Semester**Credits:** .5

This course covers literature, speaking, and listening, and is designed to prepare students for post-secondary education other than a university. Students will study fiction and non-fiction pieces, including a murder mystery and an in-depth author study of a contemporary Young Adult literature novelist. Also studied is a diverse short story unit. Students will study, analyze, and critique literature by looking closely at diverse cultures, political systems, and lifestyles of people around the world. Students will write a literary analysis essay and compare literary devices among literary works. Preparation for the Michigan Merit Exam and ACT will be addressed as well.

HONORS ENGLISH 11A/B (Grade 11)**Fulfills a graduation requirement**

Course Number: 01052H, 01102H

Prerequisite: Minimum 3.0 GPA in English 10 Comp. & English 10 Lit. and teacher recommendation**Length:** 2 Semesters**Credits:** 1

This is an accelerated course designed for the serious-minded, college-bound student. In the first semester, students will focus on the study of classic Greek and Roman mythology, which will provide a solid foundation for the study of classic literature in the 2nd half of Honors English and in next year's A.P. English class. Student writing will focus on the development of the persuasive essay. In addition, students will receive extensive practice in grammar and composition skills in preparation for the ACT Test. Throughout the course, emphasis will be placed upon the organization and development of ideas, effective communication, self-discipline, and creativity. Outside reading will be required. This class is a prerequisite for ENGL 150.

In the second semester, students will study classic world literature through novels, short stories, poetry, drama, and non-fiction. Emphasis will be placed on refining students' writing skills through advanced composition assignments, which will ask them to analyze, critique, and interpret their reading, as well as apply and compare themes and motifs in various forms of literature. The aim of this course is to help students become perceptive readers, articulate and effective writers, and capable speakers, listeners, and viewers. Throughout the course, special attention will be placed upon focus and organization of ideas, refining distinctive voice in writing, effective communication, self-discipline, and creativity. Outside reading will be required. This class is a prerequisite for ENGL 150.

ENGLISH 12 (Grade 12)**Graduation requirement**

Course Number: 011022/010522

Prerequisite: English 11A and English 11B**Length:** 2 Semesters**Credits:** .5 each semester

This course will concentrate on the skills of research, writing, and public speaking. Students will develop skills in the research process which will lead to the development of a research proposal and a research report. They will regularly review the basic elements of grammar and sentence structure in order to improve fluency and clarity in their writing. There will be a focus on the development of basic public speaking skills, culminating in a PowerPoint presentation based on the research report.

Students will learn how writers incorporate rhetorical strategies into written pieces to further an argument and they will be expected to analyze and evaluate an essay for rhetorical effectiveness. Students will study a novel and have the opportunity to study theme, character, and symbol while also analyzing how culture is reflected in literature. They will be required to write two formal literary analysis essays. In addition, students will study films for the purpose of analyzing how culture is reflected in film and they will explore the elements of film, such as camera shots/angles, symbolism, and sound to determine how cinematic elements work together to develop theme.

FRESHMAN ENGLISH COMPOSITION: ENG.111 (Grade 12)

Fulfills a graduation requirement

Concurrent enrollment course offered through Mid Michigan College

Course Number: ENG111

Prerequisite: Minimum score of 480 on SAT EBRW

Length: 1 Semester

Credits: .5 (3 college credits)

This course prepares a student for academic writing in the college setting, and concentrates on analyzing and discussing written sources. Emphasis is on writing that shows insight into published discussions of an issue and understanding of the contexts of academic debate (rather than on informational reports or personal expression essays). In addition, research and revision are treated as integral parts of the process of writing an academically acceptable essay. By the end of the course, a student must show 'competency' in an academic, synthesis essay of their choosing.

INTRODUCTION TO LITERATURE: ENG.112 (Grade 12)

Fulfills a graduation requirement

Concurrent enrollment course offered through Mid Michigan College

Course Number: ENG112

Prerequisite: ENG.111 with a minimum grade of C

Length: 1 Semester

Credits: .5 (3 college credits)

This course introduces students to a variety of literature and enhances students' competency in critical reading and writing. The course will include introductions to genres of literature and critical theories of reading and responding to literature. Students should have completed ENG.111 and have basic writing skills.

MATHEMATICS COURSE SEQUENCING

| 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|-----------------------|--|--|--|
| Geometry | Algebra 2 (Grade of B or better and qualifying test scores) | College Algebra: MAT 107 (Mid Michigan College 3 cr.) AND Precalculus: MAT 124 (Mid Michigan College 5 cr.) | Intro. to Probability and Statistics: MAT 212 (Online) (Mid Michigan College 3 cr.) AND Personal Finance |
| Algebra 1 | Geometry | Algebra 2 | College Algebra: MAT 107 (Mid Michigan College 3 cr.) AND Precalculus: MAT 124 (Mid Michigan College 5 cr.) OR Intro. to Probability and Statistics: MAT 212 (Online) (Mid Michigan College 3 cr.) OR Personal Finance |
| Algebra 1 | Geometry | Algebra 2 | Senior Math Class (TBD) AND Personal Finance |
| Algebra 1 | Geometry | Algebra 2 | Career Center Math (<i>by permission only</i>) |

ALGEBRA 1 (9, 10, 11, 12)

Course Number: 02053, 02054

Prerequisite: None

Length: 2 Semesters

Credits: 1

The branch of mathematics that operates with rational numbers, some irrational numbers, and expressions composed of variables and constants. Some of the units of study are as listed: symbols and sets, variables and open sentences, axioms, equations and problem solving, negative numbers, working with polynomials, special products and factoring, and working with graphs.

Graduation requirement

GEOMETRY (9, 10, 11, 12)

Course Number: 02072A, 02072B

Prerequisite: Algebra 1

Length: 2 Semesters

Credits: 1

Geometry stresses the basic structure of geometry. Concepts of space geometry are integrated with plane geometry. Algebraic skills are reviewed and strengthened as algebraic methods are applied to solving problems in geometry as well as, the geometry transformations, area and volume. Basic trig functions are introduced, and a heavy concentration is placed on the properties of triangles and quadrilaterals. Students may take Geometry A without having received credit for Algebra 1 B. However, students must receive credit for Algebra 1 B before enrolling in Geometry B.

Graduation requirement

ALGEBRA 2 (10, 11, 12)**Graduation requirement**

Course Number: 02056A, 02056B

Prerequisite: Algebra 1 and Geometry**Length:** 2 Semesters**Credits:** 1

Algebra II is the continuation of Algebra I; and includes axioms for real numbers, open sentences in one variable, graphs and forms of linear equations, quadratic equations, rational equations, simultaneous equations, exponents, radicals, logarithms, series and sequences, trigonometry and probability.

PERSONAL FINANCE (Grade 12)**Fulfills part of the senior math requirement**

Course Number: 02157

Prerequisite: Algebra 1, Geometry and Algebra 2**Length:** 1 Semester**Credits:** .5

This course presents a basic literary understanding of math in daily living. The focus of the course is to understand the financial literature and promote positive financial choices in the following areas: budgeting, banking, savings, investing, transportation, insurance, food, clothing, housing, paychecks, taxes, and credit. Much of the course content is presented in an online format.

COLLEGE ALGEBRA: MAT.107 (11-12)**Fulfills math requirement***Concurrent enrollment course offered through Mid Michigan College*

Course Number: MAT107

Prerequisite: Completion of Algebra 2 and minimum score of 480 on PSAT Math or 530 on SAT Math**Length:** 1 Semester**Credits:** .5 (3 college credits)

Students will study real and complex numbers, linear functions, quadratic functions, zeros of functions, interpreting graphs, linear and quadratic inequalities, polynomial and rational functions, exponential and logarithmic functions, the algebra of functions, and conic sections.

PRECALCULUS: MAT.124 (11-12)**Fulfills math requirement***Concurrent enrollment course offered through Mid Michigan College*

Course Number: MAT124

Prerequisite: Grade of C or better in MAT.107**Length:** 1 Semester**Credits:** .5 (5 college credits)

Preparation for students who desire to study calculus. Topics include properties of real numbers, inequalities, data analysis, modeling, functions and relations, logarithms and exponential functions, circular and trigonometric functions.

Offered Winter Semester

INTRODUCTION TO PROBABILITY AND STATISTICS: MAT.212 (11-12)**Fulfills math requirement***Mid Michigan College Online course*

Course Number: MAT212

Prerequisite: Grade of C or better in MAT.107 or minimum score of 530 on SAT Math**Length:** 1 Semester**Credits:** .5 (3 college credits)

Selected topics from probability, variable, data collection and summarization, distribution, hypothesis testing, regression, and correlation. An interest course for use in teaching, science, business, biology, sociology, psychology, economics and more.

CAREER CENTER MATH (12 Grade)

Fulfills math requirement

Course Number: 02052

Prerequisite: None

Length: 2 Semesters

Credits: 1

This course is available by permission only to seniors attending the Career Center. Requirements include completion of online lessons in KeyTrain which is a WorkKeys prep program, and attendance at monthly seminars held at the Career Center focusing on topics such as credit, insurance, finances, and other related math applications.

HEALTH (Grade 9)

Graduation requirement

Course Number: 08051

Prerequisite: None

Length: 1 Semester

Credits: .5

Students develop knowledge and skills that allow them to obtain an optimal level of health. The course examines the relationship among physical, mental and social health. Critical thinking and decision making skills will be taught and practiced throughout the course. Students will use accurate health information to protect and promote personal, family, and community health.

PHYSICAL EDUCATION (Grades 9-10)

Graduation requirement

Course Number: 08001

Prerequisite: None

Length: 1 Semester

Credits: .5

Activities in this class may include the following: team or individual sports, introduction to athletic conditioning, low impact aerobics, or weight training and physical conditioning with an emphasis on lifelong activities. Students are graded on participation and continuous improvement of cardiovascular fitness. Skill and written tests will be an integral part of the student's evaluation.

LIFETIME FITNESS (10, 11, 12)

Course Number: 08005

Prerequisite: Physical Education

Length: 1 Semester

Credits: .5

This class will blend sports activities with personal conditioning. Activities include but are not limited to softball, volleyball, floor hockey, Frisbee games, soccer, basketball, football, speedball, badminton, table tennis, and team handball. Rules of the game, officiating and advanced skill development will be emphasized. During the personal conditioning portion, students will participate in weight training, running, circuit training, and stretching.

This course is repeatable for credit up to a total of 1 credit.

SCIENCE COURSE SEQUENCING

| 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade (optional) |
|-----------------------|-------------------------------|--|--|
| Biology | Chemistry Physical Science | Physics Advanced science classes Dual enrollment science classes | Physics Advanced science classes Dual enrollment science classes |
| Physical Science | Biology | Chemistry Science elective classes | Science elective classes |

BIOLOGY (Grades 9-10)

Graduation requirement

Course Number: 03051A, 03051B

Prerequisite: None

Length: 2 Semesters

Credits: 1

This class is a general study of the science of life designed to give freshmen a solid foundation in laboratory skills, critical thinking, learning through inquiry, and written communication. Topics include: Characteristics of Life, Structure and Function of the Cell, Cell Division, Genetics, Heredity, Evolution and Ecology.

PHYSICAL SCIENCE A/B (Grades 9-10)

Fulfills a graduation requirement

Course Number: 03159A, 03159B

Prerequisite: None

Length: 2 Semesters

Credits: 1

This course provides a basic introduction to physics and chemistry. Physics is the study of matter and energy. Topics include: motion, forces, energy, waves, sound, light, heat/temperature, electrical circuits, and magnetism. Chemistry topics include: structure of the atom, elements of chemistry, gas laws, the Periodic Table, chemical bonding, and chemical reactions.

CHEMISTRY A/B (10, 11,12)

Fulfills a graduation requirement

Course Number: 03101A/03101B

Prerequisite: C or better in Algebra 1 and Biology

Length: 1 Semester

Credits: .5

This is an introductory course that allows the student to fulfill a science graduation requirement. Students will be introduced to a traditional chemistry curriculum that includes discussion of matter, atomic structure, formula writing and naming, periodic table, chemical reactions, solution chemistry, energy, nuclear chemistry, equilibrium and kinetics. Emphasis will be placed on real-world application of chemistry principles and will include numerous laboratory experiences. While mathematics is included, it is not as rigorous as honors chemistry.

Students who take Chemistry A and Chemistry B will complete their chemistry graduation requirement.

HONORS CHEMISTRY (10, 11, 12)

Fulfills a graduation requirement

Course Number: 03102A, 03102B

Prerequisite: Algebra 1, Geometry

Length: 2 Semesters

Credits: 1

This class is designed for the student who is college-bound and planning a field of study related to the sciences. Students will study the underlying principles and theories of chemistry while using mathematical skills during data-analysis and problem-solving activities. Students will engage in laboratory experiments designed to introduce, illustrate and apply concepts learned in class. Topics of study include chemical reactions, atomic structure, bonding, chemical quantities, states of matter, acids and bases, equilibrium and kinetics. The course is more rigorous and intense than Chemistry A/B and is taught at a faster rate. It is designed for students who are interested in taking either AP Biology or AP Chemistry in the future.

ADVANCED BIOLOGY (11, 12)**Fulfills a science requirement**

Course Number: 03056A, 03056B

Prerequisite: Biology and Chemistry or teacher permission**Length:** 2 Semesters**Credits:** 1

Advanced Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes - energy and communication, genetics, information transfer, ecology, and interactions. The course will prepare students to take the CLEP Exam at the end of the school year, if they choose, to earn college credit.

ADVANCED CHEMISTRY (11, 12)**Fulfills a science requirement**

Course Number: 03105A, 03105B

Prerequisite: Biology and Chemistry or teacher permission**Length:** 2 Semesters**Credits:** 1

This course is designed to be an introductory college level chemistry course. Topics covered include: Thermodynamics, Kinetics, Solution Chemistry, Organic Chemistry, Gas Laws, Bonding and Periodicity, and many lab procedures. The course will prepare students to take the CLEP Exam at the end of the school year, if they choose, to earn college credit.

SCIENCE ELECTIVE COURSES (11, 12)**Fulfills a graduation requirement**

Course Number: 03151A, 03151B

Prerequisite: None**Length:** 1 semester each**Credits:** .5 each semester

A variety of science elective courses are offered each year to fulfill the science elective requirement. The courses vary from year to year depending on staff availability. Courses offered may include: Earth Science, Integrated Science, Archeology, Anatomy & Physiology, Forensic Science.

UNITED STATES HISTORY (Grade 9)**Graduation requirement****Course Number:** 04103A, 04103B**Prerequisite:** None**Length:** 2 Semesters**Credits:** 1

This course combines history, geography and civic standards. It includes a historical and geographical analysis and interpretation of U.S. History from 1850 to present day life. Students will be introduced to the Industrial United States, Immigration & Cultural Change, Rise of Labor Unions, Imperialism, Roaring Twenties, the Great Depression, World War II, Post War U.S., Civil Rights, and the contemporary U.S.

WORLD HISTORY (Grade 10)**Graduation requirement****Course Number:** 04052A, 04052B**Prerequisite:** None**Length:** 2 Semesters**Credits:** 1

Topics to be covered in this class include: Cradles of Civilization (pre-history- AD 500), Classical heritage (200 BC - AD 476), Middle Ages (AD 330-1453), The World Beyond Europe (600 BC-AD 1700), Journey into Modern Times (1000-1750) and Age of Revolution (1600-1840). Geography and current events will be included in the study of World History.

CIVICS (Grades 11-12)**Graduation requirement****Course Number:** 04161**Prerequisite:** None**Length:** 1 Semester**Credits:** .5

Students will study the various types of government with a focus on the government and issues of the United States. Current issues and debate topics will also be included.

ECONOMICS (Grades 11-12)**Graduation requirement****Course Number:** 04201**Prerequisite:** None**Length:** 1 Semester**Credits:** .5

Students will be involved in learning about economics through business/community development projects, a Junior Achievement "be Entrepreneurial" class, and classroom instruction in the basic functioning of the US economy as it relates to the world and the local level.

CAREERS & TECHNOLOGY (Grade 10)

Graduation requirement

Course Number: 10004

Prerequisite: None

Length: 1 Semester

Credits: .5

This semester course is designed to prepare students for the on-going ethical, social, and global issues of technology in the business world. The course will cover computer concepts including how information is processed, stored, and shared. Major consideration will be given to Microsoft Office Suite integration including student projects in Word, Excel and PowerPoint. The MHS Writing Guide will be reviewed and used to teach students employability skills such as resumes, cover letters, job applications, and interview techniques. Career related information including updating EDPs in Xello will be continued and integrated into the class.

COMPUTER SCIENCE (11, 12)

Course Number: 10004

Prerequisite: Careers & Technology

Length: 1 Semester

Credits: .5

This class introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. Students will learn to solve problems through hands-on activities and projects, create a series of real working, shareable apps, designed around computer science topics such as Internet Simulation, Problem solving, Digital Information, Coding (code.org), Intro to Programming, Data and Privacy.

TECHNOLOGY APPLICATIONS (11, 12)

Course Number: 10005A

Prerequisite: Careers & Technology

Length: 1 Semester

Credits: .5

This is a project driven class to let students design, create, and produce projects using popular computer programs and applications that will help build skills needed for success in employment, and post-secondary education, and life. Focus will be on fundamental technology skills and emerging technology. Students will learn to create various projects on multiple platforms such as Microsoft, Google, and mobile applications in a business context. Programs such as Microsoft Publisher, Productivity Suites, video creation software, computer-aided graphics and other relevant software will be used to create student driven projects.

ART A (9, 10, 11, 12)

Course Number: 05154A

Prerequisite: None**Length:** 1 Semester**Credits:** .5

This class introduces students to the principles and elements of art through the use of different materials, techniques, concepts, and processes essential to understanding the visual arts and the role of the artist. Through a series of projects, class critiques, and assessments, this class will investigate 2-D and 3-D works in terms of their formal development and cultural context focusing on realism and abstraction with artists such as O'Keeffe, Picasso, Escher, Matisse, Van Gogh, Rockwell as well as their chosen styles.

Can be used to fulfill VPAA requirement**ART B (9, 10, 11, 12)**

Course Number: 05154B

Prerequisite: None**Length:** 1 Semester**Credits:** .5

This class continues to develop student understanding of the principles and elements of art through the use of different materials, techniques, concepts, and processes essential to understanding the visual arts and the role of the artist. Through a series of projects, class critiques, and assessments, this class will investigate 2-D and 3-D works in terms of their formal development and cultural context focusing on realism, non-objective focusing on artists such as Calder, Mondrian, Klee, Da Vinci as well as their chosen styles.

Can be used to fulfill VPAA requirement**ADVANCED ART (10, 11, 12)**

Course Number: 05197A/B

Prerequisite: Art A & B and teacher approval**Length:** 1 Semester**Credits:** .5

This class is for students who have already completed Art A and Art B and are looking to continue their art education through a self-guided study in an area of their choosing. Students will be able to determine their focus of study and chosen media with support from the teacher and will create their own timelines and rubrics for self-reflection and assessment. Depending on the media chosen, there may be a class fee.

Can be used to fulfill VPAA requirement**MARCHING & CONCERT BAND (9, 10, 11, 12)**

Course Number: 05103, 05102

Prerequisite: Previous instrumental experience or director approval**Length:** 2 Semesters**Credits:** .5 each semester

Concert band is the key emphasis of the band program. Students are exposed to a variety of musical and social experiences such as various concert ensembles, solo and ensemble, band festival and corps style marching band. The band provides music for ceremonial events within the community as well as performances at many athletic events, festivals, parades, competitions, and concerts. Participation in extended day events is required.

Can be used to fulfill VPAA requirement

MUSIC TECHNOLOGY (10, 11, 12)**Can be used to fulfill VPAA requirement****Course Number:** 05119**Prerequisite:** None**Length:** 1 Semester**Credits:** .5

This class will explore the process of modern music production and how the use of technology can help us create music. Students will explore online music making apps on Chromebooks and iPads and also learn about recording techniques behind how your favorite music is created. There is no musical experience required to take this class!

This course is NOT repeatable for credit unless by teacher's permission.

YEARBOOK (Grades 11, 12)**Can be used to fulfill VPAA requirement****Course Number:** 11104A/B**Prerequisite:** Teacher approval**Length:** 1 or 2 Semesters**Credits:** .5 each semester

This course is designed for the purpose of creating and producing our school yearbook, the Scribe. Students will be involved in all aspects of creating the yearbook including theme development, basic layout design, photography, cut line and body copy writing, and sales. The knowledge and use of On-Line Design will be a major component of the course. In addition, students will learn and practice basic journalism skills by writing school-related newspaper articles.

SPANISH 1 (7, 8, 9, 10, 11, 12)**Graduation requirement****Course Number:** 06101A, 06101B**Prerequisite:** None**Length:** 2 Semesters**Credits:** .5 each semester

Spanish 1 will introduce students to the Spanish language and culture. Students will learn background of the language as well as basic grammar and vocabulary. This provides students with an experience learning another language and prepares them to advance into further study of the Spanish language.

SPANISH 2 (8, 9, 10, 11, 12)**Graduation requirement****Course Number:** 06102A, 06102B**Prerequisite:** Spanish 1**Length:** 2 Semesters**Credits:** .5 each semester

Spanish 2 continues the study of the Spanish language and culture. Students will expand their Spanish vocabulary and understanding of Hispanic traditions.

The following programs at the Sanilac Career Center are available to juniors and seniors only. Most programs can be used to fulfill the VPAA graduation requirement

AUTO SERVICE TECHNOLOGY

Course Number: 20104A, 20104P

The Auto Service Technology program provides comprehensive training in the basic service and repair of automobiles and focuses on general maintenance, electrical system service, brake repair and steering suspension. Internships are available to second year students. Students are permitted to repair their own vehicles, tractors, ATV's, and power equipment and have the opportunity to work on the Auto Service Dragster project.

BIOTECHNOLOGY

Course Number: 18002A, 18002P

This program introduces students to the exciting and dynamic industry of agriculture and natural resources (ANR). Students can be involved in new technologies through practical applications at the animal studies facility, hydroponic greenhouse, aquaculture lab and outdoor E.A.R.T.H. Center (Environmental Area for Research, Teaching and Husbandry).

CAREERS IN EDUCATION

Course Number: 19152A, 19152P

Careers in Education is a one or two year curriculum that takes the first steps toward a variety of careers in the education world. It gives students the opportunity to explore different career options that are available in the educational field. Students work in our state licensed preschool - Tots-N-Teens Preschool - and intern at various schools and businesses throughout the county.

COMPUTER TECHNOLOGY

Course Number: 10251A, 10251P

The Computer Technology program provides training in the "High Demand - High Earning" careers of Information Technology (IT). Whether your interests lie in the financial, healthcare, business, education, engineering or environmental fields, there are IT jobs waiting for you. Students work in the Computer Repair Lab where they receive "real world" experience troubleshooting, repairing, installing and networking of computer hardware and software. The entrepreneurship portion of the course focuses on critical business and financial skills, attitudes and behaviors to help students succeed in the 21st century.

CONSTRUCTION I AND II

Course Number: 17002A, 17002P

The Construction Trades program is a hands-on chance to learn rough carpentry, electrical, plumbing and masonry. During the second year students completely build one house. Qualified second year students can be placed on an internship.

COSMETOLOGY

Course Number: 19101A, 19101P

Learn the science of beautifying and improving the complexion, skin, hair and nails in the Cosmetology program offered through the Sanilac Career Center at Bayshire Academy in Caro. This course of study is 1500 hours. Students will undergo 350 hours of classroom and laboratory study followed by 1150 hours of practical experience/floor work guided by the experience of professional instructors. Students must provide their own transportation. The Sanilac ISD pays for 450 hours of instruction per school year. All other hours of instruction are the financial responsibility of the student or parents.

CULINARY ARTS MANAGEMENT

Course Number: 16052A, 16052P

The Culinary Arts Management program is on the “cutting edge” of the restaurant industry. The program is fast-paced and challenging. This upbeat profession could take you to some of the most exciting destinations and business centers in the world. Students receive “hands-on” training in our professional kitchen and banquet facility.

DIGITAL MEDIA

Course Number: 10203A, 10203P

Digital Media focuses on developing the knowledge, skills and attitudes students need to respond to media artworks and create art using media arts technology. Media arts technology may include film, video, computer technologies and electronic and digital recording. Students create and manipulate images and applied designs in order to elicit specific audience responses. In developing their media artworks, students apply visual elements and principles of design using light, sound and time, as well as, traditional art-making processes. Digital Media students examine the impact of 21st-century technology on the creation of visual artworks. Students also investigate and critically examine the social, cultural and historical contexts of digital media arts in order to gain an understanding of the role and influence of digital media artworks in society. The entrepreneurship portion of the course focuses on teaching critical business and financial skills, attitudes, and behaviors to help students succeed in the 21st century.

ENGINEERING & DESIGN

Course Number: 21005A, 21005P

The Engineering & Design program is open to students interested in working with their hands and their minds. This project-based program allows students to carry their idea from inception to completion using the design process to teach and reinforce problem solving and higher-level learning. This program uses a blend of classroom work along with a heavy concentration of hands-on welding and fabrication work. This combination provides students with a useful learning experience to prepare them for college or the work force. The 7500 sq. ft. Engineering and Design facility is set up with classroom, internet and 3D solid Edge CAD (Computer Aided Drafting). The fully equipped fabrication shop houses state-of-the-art machine tools and steel/aluminum welding capabilities. Students will also get a chance to use vehicle test equipment and run on our vehicle proving grounds.

GRAPHIC COMMUNICATIONS

Course Number: 11155A, 11155P

Students will learn the art of designing and producing printed materials such as: business cards, newsletters, advertisements, flyers, t-shirts, yearbooks, billboards, CD covers and labels. Basically anything that can be printed! This program also offers an array of multimedia projects like video projects and digital photography.

HEALTH OCCUPATIONS (12 Grade only)

Course Number: 14002A, 14002P

Health Occupations is a one-year program. It provides the student with a combination of classroom instruction and clinical experience. Health career exploration is accomplished through student research, field trips, job shadowing and internships in health care environments. Students identify careers that match their interests, aptitudes and expectations.