



Milan High School Course Description Guide

2022-2023

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The district shall not discriminate on the basis of race, color, religion, national origin, ancestry, sex, marital status or handicap in its educational programs or activities.

Inquiries regarding this policy should be directed to:

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TABLE OF CONTENTS

Graduation Requirements	4
High School Four Year Plan	6
College Planning Information	8
College Bound Athlete Guide	9
Academic Requirements for High School Graduation	10
Guide for Determining Class Membership	10
Academic Honors	10
Policy Information	11
Career Pathways	15
Course Descriptions	
AP Capstone	16
Business	17
English Language Arts	18
Life Management Education	22
Mathematics	23
Music	26
Physical Education	28
Science	29
Social Studies	34
Technology	37
Visual Fine Art	39
World Languages	40
Career and Technical Education (Consortium)	42

Graduation Requirements

Total Credits = 24

English	4 Credits
Honors English 9, American Literature, Mythology, or Young Adult Literature —1 Credit	
Honors English 10, American Literature, Mythology or Young Adult Literature — 1 Credit	
AP English Language, British Literature, or Humanities —1 Credit	
AP English Literature, English 12 or 2 English Electives—1 Credit	
Math	4 Credits*
Algebra I —1 Credit	
Geometry or Honors Geometry —1 Credit	
Advanced Algebra or Honors Advanced Algebra —1 Credit	
Math Elective —1 Credit	
* NOTE: One math related course must be taken during Senior Year	
Course options may be found on following page	
Science	4 Credits
Biology or Honors Biology —1 Credit	
Chemistry, Honors Chemistry, Physics, Honors Physics, or AP Chemistry —1 Credit	
Science Elective —2 Credits (Physics or Honors Physics recommended)	
Social Studies	4 Credits
World History & Geography —1 Credit	
U.S. History & Geography or AP U.S. History —1 Credit	
Civics & Economics or A.P. Government —1 Credit	
Government, AP Government or Social Studies Elective —1 Credit	
Physical Education & Health	.5 Credit
Health	.5 Credit
Visual, Performing, and Applied Arts*	1 Credit
* NOTE: Course options may be found on following page	
Foreign Language	2 Credits
*Note: Some or all may be earned in Middle School	
Elective Credits	4 Credits

Michigan Merit Exam MME/(SAT) - Participation required for graduation: All students must participate in the state required Michigan Merit Exam. The Michigan Merit Exam is a three-part assessment including the SAT, WorkKeys, and the M-STEP. Students are required to take all three assessments during their junior year to be eligible for graduation.

COURSES THAT QUALIFY FOR MATH-RELATED CREDIT

The following courses may qualify for math related credit in the student's senior year:

- Any Traditional High School Math Course that has not already earned credit (i.e., Pre-Calc/AP Calc)
- Physics, Honors Physics, or A.P. Physics*
- Honors Chemistry or A.P. Chemistry*
- Accounting
- General Business
- General Business – School Store
- Personal Finance
- CAD I or II
- Architecture I or II
- Intro to Engineering / Principles of Engineering
- Graphic Photography
- Consortium

*Denotes these courses can only count for math-related credit **IF** they are not used as Science credit for the Michigan Merit Curriculum (MMC).

COURSES THAT QUALIFY FOR VISUAL, PERFORMING, AND APPLIED ARTS (VPAA) CREDIT

The following courses may qualify for VPAA credit at any point during high school:

- Drama & Advanced Drama*
- Architecture I/II
- Graphic Design/Advanced
- CAD I/CAD II
- Internet & Design
- Band/Choir
- Art I/Art II and beyond
- Pottery I/II and beyond
- Photography
- Yearbook*
- Consortium

*Denotes these courses can only count for VPAA-related credit **IF** they are not used as English credit for the Michigan Merit Curriculum (MMC).

For more information visit:

http://www.michigan.gov/documents/mde/Complete_MMC_FAQ_August_2014_467323_7.pdf

High School Four-Year Plan

Goals are essential to planning your career. They serve like a road map, giving you a destination and a route. There is no better time to plan for your future than now. To help you along the way, complete the four-year high school plan below. List courses you have taken so that you can view your progress. This four year plan can assist you in updating your web based EDP in the future. Listed below is a suggested course plan that a majority of students follow, however individualized variations should be expected, particularly for a faster or slower pace.

9th Grade	
Classes to Take:	Opportunities to Take Advantage Of:
ENGLISH: Mythology, Young Adult Literature, American Literature, or Honors English 9	<input type="checkbox"/> Individual Consultation With School Counselor <input type="checkbox"/> Update Web Based EDP
SOCIAL STUDIES: World History & Geography	<input type="checkbox"/> Career Exploration
MATHEMATICS: Algebra and/or Geometry	<input type="checkbox"/> Job Shadow
SCIENCE: Biology or Honors Biology	<input type="checkbox"/> Community Service
ELECTIVES: Physical Education And Health	*Assessment Days – PSAT 9 (Fall and Spring)

10th Grade	
Classes to Take:	Opportunities to Take Advantage Of:
ENGLISH: Mythology, Young Adult Literature, American Literature, or Honors English 10	<input type="checkbox"/> Individual consultation with School Counselor <input type="checkbox"/> Update Web Based EDP
SOCIAL STUDIES: U. S. History & Geography or A.P. U.S. History	<input type="checkbox"/> Career Exploration / Explore SWWC (Open House)
MATHEMATICS: Geometry and/or Advanced Algebra	<input type="checkbox"/> Job Shadow/Community Service
SCIENCE: Chemistry or Honors Chemistry	<input type="checkbox"/> Prepare for Dual Enrollment
ELECTIVES: Assorted	*Assessment Days – PSAT 10/NMSQT

11th Grade	
Classes to Take:	Opportunities to Take Advantage Of:
ENGLISH: British Literature, Humanities, or A.P. Language & Composition	<input type="checkbox"/> Individual Consultation with School Counselor <input type="checkbox"/> Update Web Based EDP
SOCIAL STUDIES: Civics/Economics or A.P. Government	<input type="checkbox"/> Job Shadow/Community Service <input type="checkbox"/> Career Exploration
MATHEMATICS: Advanced Algebra or Pre-Calculus Integrated Math	<input type="checkbox"/> College Search/Visits
SCIENCE: Physics or Honors Physics A.P. Chemistry and/or A.P. Biology	<input type="checkbox"/> Dual Enrollment and/or online courses
ELECTIVES: Assorted	*Assessment Days – PSAT 10/NMSQT and SAT

12th Grade	
Classes to Take:	Opportunities to Take Advantage Of:
ENGLISH: English 12 or A.P. Literature & Composition	<input type="checkbox"/> Individual Consultation with School Counselor <input type="checkbox"/> Update Web Based EDP
SOCIAL STUDIES: Government or A.P. Government	<input type="checkbox"/> Senior Audit
MATHEMATICS: Pre-Calculus, A.P. Calculus and/or A.P. Statistics	<input type="checkbox"/> Attend Financial Aid Night / Apply for Scholarships <input type="checkbox"/> Career Exploration, Senior Project & Internship
SCIENCE: Applied Physics, A.P. Chemistry, A.P. Biology, A.P. Physics, Anatomy and Physiology, Zoology, Botany, Natural Resources, or FFA Leadership	<input type="checkbox"/> Complete FAFSA Financial Aid Application <input type="checkbox"/> Conduct College Visits
ELECTIVES: Assorted	<input type="checkbox"/> Dual Enrollment and/or online courses <input type="checkbox"/> Take ACT and/or retake SAT

College Planning

Time-Table for the College Admission Process

Fall of Sophomore Year:

- ✓ Update your EDP
- ✓ Take the PSAT10/NMSQT Test for practice and academic/career planning.

Fall of Junior Year:

- ✓ Update your EDP
- ✓ Take the PSAT10/NMSQT for practice and to qualify for the National Merit Scholarship
- ✓ Attend MHS college visits

Winter of Junior Year:

- ✓ Learn about colleges that are of interest to you
- ✓ Take the MME (SAT, WorkKeys, MSTEP)

Summer after Junior Year

- ✓ Visit college campuses
- ✓ Request materials from colleges to learn more about them and their offerings

Fall of Senior Year

- ✓ Update your EDP
- ✓ Attend MHS college fair
- ✓ Narrow choices of colleges to a few and apply to these schools. For Early Decision/Action Applications submit by October 31st
- ✓ Continue to take and succeed in challenging college preparatory coursework
- ✓ Attend MHS Financial Aid/Scholarship Night
- ✓ Submit FAFSA (Free Application for Federal Student Aid) Form prior to November

Winter of Senior Year

- ✓ Apply for Local Scholarships

Factors to Consider When Choosing a College

1. Type of college (public, private, etc.)
2. Size of college and community
3. Location
4. Programs offered
5. Admissions policy
6. Cost
7. Environment/Atmosphere/Activities

Academic Requirements for College-Bound Students

Recommended by the Presidents' Council-State Universities of Michigan:

- English (4 years required; at least 1 year of Advanced Placement recommended)
- Mathematics (4 years required – one must be in senior year, 1 year of Advanced Placement recommended))
- Biological/Physical Sciences (3 years required including 1 year of biological science and 1 year of physical science; 1 year Advanced Placement laboratory course is also strongly recommended.)
- History/Social Sciences (3 years required; 1 year of Advanced Placement strongly recommended)
- Foreign Language (3 years strongly recommended)
- Fine and Performing Arts (2 years strongly recommended)

Some Advice from college students...

In a national survey, college students were asked what advice they would give students in high school for college. Their answers were:

1. Develop good study habits in high school and learn to take good notes.
2. Take college preparatory courses such as English, math, science, social studies, and foreign language in high school.
3. Learn about your interests and skills. Plan for your future career and take appropriate high school classes.
4. Learn to budget and manage time, balancing study time with social time. Learn to save and budget money. Be involved in extracurricular activities.
5. Learn about colleges by visiting college campuses and talking with students who attend those institutions.
6. Develop good writing, reading skills and grammar skills. Get good grades.

High School Planning Guide for the College-Bound Athlete

A college freshman, in order to be eligible for practice, participation in regular-season competition, and athletically-related financial aid, entering an NCAA Division I & II institution directly out of high school must have:

Graduated from high school with the required minimum grade-point in the core-curriculum; and achieved a minimum sum score on ACT or SAT (Check NCAA GPA/Test Score Index); and

Successfully completed a core curriculum of the following:

Division I: 16 Core Courses (2008 and Beyond)	Division II: 16 Core Courses
4 years of English	3 years of English
3 years of math (algebra 1 or higher level)	2 years of math (algebra 1 or higher level)
2 years of natural or physical science (including one year of lab science if offered)	2 years of natural or physical science (including one year of lab science if offered)
1 extra year of English, math, or science	2 years of social science
2 years of social science	3 extra years of English, math, or science
4 years of additional core courses (from any category above, or in a foreign language, non doctrinal religion, or philosophy)	4 years of additional core courses (from any category above, or in a foreign language, non doctrinal religion, or philosophy)

NOTE: It is the student-athlete's responsibility to get details on the GPA, test score sliding scale, and core curriculum courses. Athletic directors and counselors have that information or visit:

<https://web3.ncaa.org/hportal/exec/links?linksSubmit=ShowActiveLinks>

If you intend to participate in college sports, visit the NCAA Clearinghouse website to review specific academic requirements at www.eligibilitycenter.org or pick up NCAA forms from the Athletic Office.

Student Athletics at Milan High School

Students interested in athletics at MHS should refer to the Athletic Code Booklet. This booklet may be obtained in the Athletic Director's or the Athletic Secretary's offices. The booklet is full of useful and important information. You'll learn about Milan High School's expectations of athletes—practice attendance policy, playing time procedures, and athletic eligibility, etc. are included.

Guide for Class/Grade Promotion

Freshman promoted to Sophomore.....	minimum 6 credits earned
Sophomore promoted to Junior.....	minimum 12 credits earned
Junior promoted to Senior.....	minimum 18 credits earned

Academic Honors

Honor Roll – Students who earn a “B+” (3.5) average or above each marking period are listed on the Honor Roll. No D’s or F’s. (Honor Roll is based on marking period GPA, not semester GPA and can be achieved four times each year.)

Summa Cum Laude—Graduating seniors who achieve a 3.9 cumulative GPA or higher at the end of the 7th semester, successful completion of 4 or more Advanced Placement Courses, and National College Readiness on the SAT/ACT or a composite score of 1160 on the SAT or 24 on the ACT will earn Summa Cum Laude honors signified by a red honor sash and medallion. The student earning the highest GPA will be recognized as Valedictorian.

Magna Cum Laude – Graduating seniors who achieve a 3.9 cumulative GPA or higher at the end of the 7th semester, and completion of two (2) or more AP courses will graduate with Magna Cum Laude signified by a medallion. Magna Cum Laude is based on a cumulative GPA for seven semesters.

Cum Laude – Graduating seniors, who achieve a 3.75 to 3.89 cumulative GPA at the end of the 7th semester, graduate with High Honors (Cum Laude) signified by a gold cord.

Honor—Graduating seniors, who achieve a 3.5 to 3.74 cumulative GPA at the end of the 7th semester, graduate with Honors signified by a silver cord.

Avant-garde – Forward thinking, graduating seniors who have earned 4 or more college classes, either through dual enrollment, consortium or an online experience.

Schedule Changes

Schedule changes for academic misplacement will be allowed through the first Friday of each semester as long as: 1) they are educationally sound and have both parent and counselor authorization; and 2) the student turned in their enrollment sheet signed by a parent or guardian. To initiate a schedule change students must schedule an appointment in guidance.

Any schedule changes after the first Friday of each semester must be approved by the administration. A letter of explanation must be submitted to the Principal. The following criteria must be met before consideration will be given:

- Classroom teacher approval
- Counselor approval
- The change is educationally sound and in the best interest of the student
- There is a class available

All classes dropped after the first Friday of each semester will be recorded on the student's transcript as an ' F ' unless procedures have been followed.

Schedule change requests for any reason other than academic misplacement must go through the building administration and are not guaranteed. Student schedules are set at the building level and not built per student.

Schedule Options

Dual Enrollment

To participate in the Dual Enrollment program and receive tuition reimbursement from Milan Area Schools students must complete the requirements below:

- Students must attend the dual enrollment meeting or reach out to their counselor within thirty days of the meeting
- Students must apply and complete all registration requirements including placement testing in order to register for a class
- Students must send the dual enrollment coordinator their dual enrollment schedule and forms required by Milan Area Schools

All steps must be completed by the deadline provided at the Dual Enrollment meeting.

Students may enroll in mathematics, science, communication skills, fine arts or other academic areas not offered by the high school or not available to the student due to a scheduling conflict, or a course related to a specific career goal. A course subject cannot be a hobby, craft, recreation, physical education or theology, divinity, or religion.

Students must complete the college class(es) with a grade of C or higher. If the high school is counting the dual enrolled classes as part of the student's full-time attendance, an official copy of earned grade(s) must be submitted to the counselor within two (2) weeks of the end of the term so the grades can be included on your transcript. NOTE: May be subject to change due to modifications made in the process at the state level.

Online Course Options

Online courses may be available to high school students through Milan High School, Michigan Virtual High School or GenNet. These providers offer a wide variety of online courses, which enable our students to expand and enrich their high school experience. These classes will be

issued credits aligning with Milan High School graduation policy (1 semester class = .5 credit). Students wishing to enroll in online/virtual courses will abide by the same course selection and deadlines as all other courses.

MAS follows all applicable rules as put in place by the State School Aid Act- Section 388.1621f.

A Milan High School staff member will serve as a local mentor for all students who are part of an online class. The mentor's role will be to frequently check in with the student and maintain student enrollment records. The instructor of the online class will issue a grade for the class. Milan High School will include this class work on the Milan High School transcript. If there are any controversies with regard to credit earned, the decision of the Principal is final.

Credit Recovery

There may be an online option available for students who are wishing to recover credit that they did not obtain due to failing a class. This option is called E2020. It is for students who obtain at least a 50% as a final grade in a class and meet basic attendance and behavioral benchmarks as these courses are offered during the standard school day.

The first option for E2020 is for a student who wishes to recover a credit during our fall or winter semester. They would have two weeks to work on units of the class that they did not master. Once they have mastered these sections they would be given a "CR" (credit) for a class in that subject area, which will not replace the grade in the original course.

The second E2020 option is for a student who wishes to recover their grade over the summer break. This is a course where the student is required to come to school and work on the computer for 3 hours a day. They would attend the class for 10-15 days. This option would have the benefit of having a teacher on site to help with any difficulties that a student may encounter. Summer E2020 class would cost a student \$150. After completing this course they would receive a "CR" for a class in that subject area, which will not replace the grade in the original course.

All requests for online recovery classes are not granted. Each case is reviewed by either a member of the counseling or administrative team. At that time the counselor or administrator determines if there is a strong possibility of success for the student with the online option.

Online Learning (<http://micourses.org/>)

Recovery for online courses and dual enrollment will be handled on an individual basis following the above guidelines pertaining to receiving credit for recovered courses.

Grade Recovery

Grade recovery will be the process by which students may be allowed an extended amount of time to earn a passing grade. First, to be eligible for grade recovery, students must have earned a failing grade with 50% or higher. Eligible students will be responsible for meeting with teachers to begin the grade recovery process. Students must be provided a Grade Recovery Guide and a copy must be retained for teacher records. Following the first semester, students will be allowed three weeks to complete the process. Following the second semester, students may be granted one week, at the teacher's discretion, to complete the process.

Consortium

The South & West Washtenaw Consortium delivers career and technical education (CTE) to Chelsea, Dexter, Lincoln, Manchester, Milan and Saline school district students. All CTE courses are designed to equip students with entry-level skills needed to gain employment, and also prepare them for Post-Secondary training and education. Many courses offer certifications necessary to enter the job market, in addition to Advanced Placement college credit, which articulate to local community colleges. For more information visit:

<http://www.salineschools.org/schools/swwc/>

Testing Out of High School Classes

A student who desires to fulfill requirements for a high school course without enrolling in the course may do so by attaining a grade of not less than a C+ on the comprehensive assessment for the course. This can include a paper, portfolio, presentation, project, or assessment in the course. Successfully attained competency will earn a grade of "CR" (credit) and shall not be used in computations of grade point average nor counted toward the total credits required for graduation. Testing out competency may be used to fulfill recommendations for other courses and/or subject area credit requirements for graduation. Students testing out of academic core courses (English, Math, Science, and Social Studies) are expected to take the required number of credits in that area to fulfill graduation requirements. Students will be given only one opportunity to test-out any semester curricula offered during their high school experience. Students may not test out of a class they have been/or are currently enrolled in.

Milan High School will administer testing out finals twice a year—August being the primary time and December/January being a special case time. Seniors wishing to test out of required classes for graduation must do so no later than the December/January testing window of their senior year.

August “Testing Out”

- Students must make a request to the counselor to test out by May 15th
- Departments must have “test-out” exams/portfolio requirements prepared by May 15th
- Administration of test/submission of portfolio pieces to be coordinated based on requirements
- Evaluation of materials will be prior to registration in August
- In-coming students to MHS (including 8th grade) can waive the May 15th request date

December/January “Testing Out”

- Students must make a request to the counselor to test out by December 15th
- Departments must have “test out” exams/portfolio requirements prepared by December 15th
- Administration of test/submission of portfolio pieces to be coordinated based on requirements and prior to the start of 2nd semester
- Evaluation of materials will be by the end of the 1st week of 2nd semester

Note: dates reflected above will be reviewed annually.

Advanced Program Opportunities

Advanced Placement (AP) Program- The College Board’s Advanced Placement (AP) Program gives high school students an opportunity to pursue college level studies. Some colleges award college credit and/or advanced standing if the student achieves a particular score on the AP exam. As each post-secondary institution allocates credit via their own policies, we always suggest checking the specific institution for credit opportunities. AP courses run for two full semesters unless otherwise specified below. The AP Capstone diploma can now be pursued by students who qualify. See page 16 for additional information on the program.

AP Courses Offered- AP Calculus AB, AP Statistics, AP Biology, AP U.S. Government & Politics, AP Chemistry, AP U.S. History, AP English Language & Composition, AP Physics, AP English Literature & Composition, AP Seminar, AP Research

Summer Assignments- Please be aware that our AP courses require completion of a summer packet or summer reading/ writing assignments that will be due upon return in the fall. Please check the counseling website for these assignments, or contact the teacher directly. These assignments are posted online in early June. The workload for these courses is equivalent to college courses. Students can expect up to 10 hours of homework per week, for each AP class they take. For example, one class would require 10 hours per week, while 3 classes would require 30 hours per week for homework.

Career Pathways

A Note from the Guidance Counselors- Your future educational training or future vocation depends, by and large, upon the choices you make while in high school. Therefore, planning a personal course of study in high school is an extremely important responsibility, which confronts the student and his/her parents each year. Guidance Counselors are available at Milan High School to assist you in making your decisions.

Career Pathways are broad groupings of careers that share similar characteristics whose employment requirements call for many common interests, strengths, and competencies. Courses offered at MHS have been aligned with the six Career Pathways.

Arts and Communication Careers related to the humanities and to the performing, visual, literary, and media arts. These may include creative or technical writing, illustrating, graphic design, publishing, theatre arts, journalism, languages, radio and television broadcasting, photography, advertising, and public relations.

Business, Management, Marketing, and Technology Careers related to all aspects of business including accounting, business administration, finance, information processing, and marketing. These may include entrepreneurship, sales, marketing, hospitality and tourism, computer/information systems, office administration, personnel, economics, and management.

Health Services Careers related to the promotion of health as well as the treatment of injuries, conditions, and disease. These may include medicine, dentistry, nursing, therapy and rehabilitation, nutrition, fitness and hygiene, public health, and veterinary science.

Human Services Careers in child care, civil service, education, hospitality, and the social services. These may include law and legal studies, law enforcement, public administration, child and family services, and social services.

Engineering/Manufacturing, and Industrial Technology Careers related to the technologies necessary to design, develop, install, or maintain physical systems. These may include occupations in designing, engineering and science, service technicians, transportation, and construction.

Natural Resources and Agriscience Careers related to natural resources, agriculture, and the environment. These may include agriculture, earth sciences, environmental sciences, fisheries management, forestry, horticulture, wildlife management, and many agri-business/agri-industry occupations.

AP Capstone Courses and Diploma

AP Capstone Diploma Program AP Capstone™ is a College Board program that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. It cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

AP Capstone comprises two AP courses — AP Seminar and AP Research — and is designed to complement and enhance the discipline-specific study in other AP courses. Participating schools can use the AP Capstone program to provide unique research opportunities for current AP students, or to expand access to AP by encouraging students to master the argument-based writing skills that the AP Capstone program develops.

Source: <https://advancesinap.collegeboard.org/ap-capstone>

Students who earn scores of three or higher on AP Seminar and AP research assessments and on four additional AP Exams of their choosing will earn the AP Capstone Diploma™. Students who only earn scores of three or higher on both AP Seminar and AP Research assessments (but not on four additional AP Exams) will earn the AP Seminar and Research Certificate™.

<p><u>AP Seminar (year, 1 credit)</u> Prerequisite: Must be in 10th or 11th grade</p>	<p><u>AP Research (year, 1 credit)</u> Prerequisite: AP Seminar, 11th or 12th grade</p>
<p>This foundational course provides students with opportunities to think critically and creatively, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. Students explore real-world issues through a variety of lenses and consider multiple points of view to develop a deep understanding of complex issues as they make connections between these issues and their own lives.</p> <p>Students read articles, research studies, and foundational and philosophical texts; listen to and view speeches, broadcasts, and personal accounts; and experience artistic and literary works to gain a rich appreciation and understanding of issues.</p>	<p>This course allows students to design, plan, and conduct a yearlong research-based investigation on a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further the skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information to build, present, and defend an argument.</p>

Business

1TCH121/122 Accounting I (Year, 1 credit)

Recommendation: Grades 10-12

Career Pathways: Business, Management, Marketing, and Technology

Accounting is the study of the methods and systems of preparing and maintaining financial records. The subject includes a study of basic principles of accounting, the accounting cycle and the preparation and analysis of financial records for both the business and the individual. Students will develop critical-thinking and problem-solving skills throughout this class. Emphasis is placed on the necessity for accuracy and following instructions.

1TCH201/202 General Business (Year, 1 credit)

Recommendations: None

Career Pathways: Business, Management, Marketing, and Technology

This course is designed to help students understand our global economy. The focus is on the general principles of business, marketing, and entrepreneurship. In this class students will explore the concepts of marketing and learn how to effectively communicate in the business world. The core standards of marketing are utilized throughout this course and include: distribution, marketing-information management, pricing, product and service management, promotion, selling, and financing.

1TCH201/202 Business - School Store (Year, 1 credit)

Recommendation: 2 semesters of General Business with a B- or better, and teacher approval.

Career Pathways: Business, Management, Marketing, and Technology

This course will help students learn how to successfully work in and operate a school store. Students will learn the business functions involved in running a successful school-based enterprise, as well as the skills and attitudes required in any job. Students will study accounting, promotion, planning, managing, and selling. Students will also be required to work in the school store with a predetermined amount of time in the store during the school day.

1TCH301/302 Advanced School Store (Year, 1 credit)

Recommendations: 2 semesters of School Store with a B- or better, teacher approval, attendance records, past experience and references may also be required.

Career Pathways: Business, Management, Marketing, and Technology

This course will help students further develop and apply their skills in management and marketing. Problem-based learning is utilized to gain competencies in store management and entrepreneurship including inventory control, purchasing, cash management, store security, merchandising, promotion and human relationships. Students will gain valuable workplace skills and be involved in the day-to-day management of the school store.

English

Four credits of English are the minimum requirement for graduation.

1ENG115: American Literature: 1600-1870 (Semester, 0.5 credit)

Recommendation: None, fulfills 9th or 10th grade English requirement

This is a semester-long course that focuses on Early American Literature. The literature study will focus on American authors including Patrick Henry, Henry David Thoreau, Walt Whitman, Emily Dickinson, Frederick Douglass, and Abraham Lincoln.

1ENG116: American Literature: 1870-Present (Semester, 0.5 credit)

Recommendation: None, fulfills 9th or 10th grade English requirement

This is a semester-long course that focuses on Contemporary American Literature. The literature study will focus on American authors including John Steinbeck, Lorraine Hansberry, Langston Hughes, Kate Chopin, Mark Twain, Sherman Alexie and other contemporary authors of student choice.

1ENG231: Young Adult Literature A: Genre Study (Semester, 0.5 credit)

Recommendation: None, fulfills 9th or 10th grade English requirement

This is a semester-long course that focuses on young adult literature, vocabulary, composition, and grammar. The literature study will consist of an investigation of a variety of different genres such as mystery, science fiction, realistic fiction, and non-fiction. This course will include student choice in novels in addition to traditional whole-class literature studies.

1ENG232: Young Adult Literature B: Thematic Analysis (Semester, 0.5 credit)

Recommendation: None, fulfills 9th or 10th grade English requirement

This is a semester-long course that focuses on young adult literature, vocabulary, composition, and grammar. This semester's literature study will consist of an investigation and analysis of themes within varying lengths of texts. Students will read a variety of novels and short stories of various themes and work to draw connections, have conversations, around the themes they are studying. In addition to whole-class novels, this class will also incorporate independent choice reading.

1ENG241: Mythology A: Greek and Roman Myths (Semester, 0.5 credit)

Recommendation: None, fulfills 9th or 10th grade English requirement

This course will introduce students to some of the principal myths of ancient Greece and Rome, to the main places and characters involved, to some of the ways in which myth functioned in real life in ancient Greece, and the ways it functions in human societies in general. This course will focus on the myths of ancient Greece and Rome as a way of exploring the nature of myth and the function it plays for individuals, societies, and nations. We will also pay some attention to the way the Greeks and Romans themselves understood their own myths.

1ENG242: Mythology B: World Myths (Semester, 0.5 credit)

Recommendation: None, fulfills 9th or 10th grade English requirement

This course will introduce students to myths from around the world. Students will study these cultural stories, compare them to recognize similarities between cultures, and analyze them to gain a deeper understanding of what these fictional stories reveal about the cultures from which they come.

1ENG103/104 Honors English 9 (Year, 1 credit)

Recommendation: English teacher recommendation; fulfills 9th grade English requirement

Honors English 9 is a yearlong course designed for those students who have a firm grasp on basic grammar and sentence structure, are prepared to read and write extensively, and are independent learners. This course moves much faster than English 9 and requires the reading of additional literary works and compositions. Honors English 9 students will focus on the following: vocabulary building, advanced grammar and composition, critical thinking and reading skills, complex literature, and research techniques. Students will be required to read 12 novels throughout the year and complete a writing portfolio.

1ENG211/212 Honors English 10 (Year, 1 credit)

Recommendation: Successful completion of the 9th grade English requirement and English teacher recommendation

This course is primarily geared toward students whose strengths lie in the field of English. Work will focus on the following areas: vocabulary building, grammar and composition, reading and literature, and research techniques. Honors English 10 is portfolio-based, and completion of a final portfolio is required. In addition, students must complete three interactive book journals, several formal essays and creative writing pieces, and a ten-page research paper. Students are also required to submit two composition pieces for publication outside of the classroom.

1ENG133 Early British Literature (Semester, 0.5 credit)

Recommendation: 11th Grade; fulfills 11th grade English requirement

This semester-long course will build on the skills built in the 9th and 10th grade English offerings. Special attention will be given to grammar, vocabulary, and writing. There will be a focus on the analysis of literature. The literature in this course will focus on early works by English writers. Students will demonstrate their understanding and analysis of this literature through short writing assignments as well as whole class discussion participation.

1ENG134 Modern British Literature (Semester, 0.5 credit)

Recommendation: 11th Grade; fulfills 11th grade English requirement

This semester-long course will build on the skills built in the 9th and 10th grade English offerings. Special attention will be given to grammar, vocabulary, and writing. There will be a focus on the analysis of literature. The literature in this course will focus on modern works by English writers. Students will demonstrate their understanding and analysis of this literature through short writing assignments as well as whole class discussion participation.

1ENG135 Humanities 1940-1970 (Semester, 0.5 credit)

Recommendation: 11th Grade; fulfills 11th grade English requirement

This semester-long course will build on the skills built in the 9th and 10th grade English offerings. Special attention will be given to grammar, vocabulary, and writing. There will be a focus on combining literature read with historical and cultural information from the time period of the writing or setting of the pieces of literature. Students will consider how historical events, culture, and art contribute to the works of literature studied. Literature in this course will either be set or written between 1940 and 1970.

1ENG136 Humanities 1970-Present (Semester, 0.5 credit)

Recommendation: 11th Grade; fulfills 11th grade English requirement

This course will build on the skills built in the 9th and 10th grade English offerings. Special attention will be given to grammar, vocabulary, and writing. There will be a focus on combining literature read with historical and cultural information from the time period of the writing or setting of the pieces of literature. Students will consider how historical events, culture, and art contribute to the works of literature studied. Literature in this course will either be set or written in the 1970s and later.

1ENG151/152 English 12

Recommendation: Successful completion of English 9, English 10, English 11

Course Description: This course will build upon your knowledge from English 9, English 10, and English 11 while also providing an extension of the material learned in Speech. We will integrate the main themes from these classes and then build upon them by delving deeper into topics through a cross-curricular project-based learning environment. Material will be presented within the context of real-world problems that will force students to apply knowledge, understanding and research skills as well as elements of the writing and speaking processes to organize and present their findings and solutions. Students will be expected to work both individually and collaboratively throughout the year on both written and oral products.

1ENG201/202 Advanced Placement English Language and Composition (Year, 1 credit)

Recommendation: Must be in 11th grade, have successfully passed English 10A, or English 11 and have English instructor recommendation.

AP English is a specialized course for college-bound students who demonstrate exceptional aptitude and interest in advanced English studies. The emphasis is on a variety of writing styles, including but not limited to, logical organization, sentence structure, word choice, rhetoric, detail, tone and voice, while reflecting upon different literary genres.

AP English students will be strongly encouraged to sit for the College Board AP Exam administered in the spring, with a possibility of advanced standing or credit in college English/Literature. All test fees paid by the student.

1ENG301/302 Advanced Placement English Literature and Composition (Year, 1 credit)

Recommendation: Must be in 11th or 12th grade, have successfully passed AP English Language and Composition, and have an English instructor's recommendation.

AP English literature is a specialized course for college-bound juniors and seniors who have taken AP English language and who demonstrate exceptional aptitude and interest in advanced English studies. In literature, the emphasis is on major British, American, and world authors and their works from the Renaissance to the present. In composition, the emphasis is on expository and analytical essays, research, and prompt writing.

AP English students will be strongly encouraged, but not required, to take the College Board AP Exam administered in the spring, with a possibility of advanced standing or credit in college English or the Humanities. The student is responsible for all test fees.

1ENG091/092 Academic Literacy (Year, 1 credit)

Recommendation: Must be in 9th grade, English teacher recommendation

The purpose of this course is to strengthen student's reading ability across all academic areas. This course focuses on building foundational literacy skills through the reading and analysis of texts in the

academic areas of English and language arts, history and science. Students work to improve their reading skills through the use of reading strategies, sustained silent reading, and written assignments.

1ENG341/342 Composition (Year, 1 credit)

Recommendation: Students must be in 10th, 11th, or 12th grade

Career Pathways: Arts and Communication

This course will focus on the formal composition process with emphasis on the skills of reasoning, rhetoric, research, and basic writing matters, such as thesis, organization, support and development, paragraphing, sentence structure, word choice, punctuation, documentation, and voice.

1ENG100 Speech (Semester, ½ credit)

Recommendation: Available for 9th - 12th grades

Career Pathways: Arts and Communication

This course will focus on developing speech communication skills. Prepared speeches will include manuscript, information, demonstration, and persuasion. This course will also include units on listening, speaking techniques, stage fright, and oral interpretation.

1ENG200 Debate (Semester, ½ credit)

Recommendation: Available 9th – 12th grades; approval of counselor or instructor

Career Pathways: Arts and Communication

This course is designed to teach the basics of debate and is open to any interested students. Students will learn effective research techniques, how to deliver structured, legal arguments, and how to develop public policy. Requirements include the development of two affirmative case and plans, ten negative briefs, 200 evidence cards, and participation in four debates.

1ENG300 Debate II (Semester, ½ credit)

Recommendation: Available 10th – 12th grades; approval of counselor or instructor

Career Pathways: Arts and Communication

This course is designed to refine the skills developed in Debate I. Students will study debate theory, research the current resolution, and participate in in-class tournament competition. Students may also be expected to participate in interscholastic debate tournaments.

1ENG291/292 Yearbook I (Year, 1 credit)

Recommendation: Application, interview and permission of instructor

Career Pathways: Arts and Communication

Students will learn and apply photojournalistic skills. Students will use the language and layout skills necessary to prepare the MILANIUM, the historical record of the high school. Work will focus on verbal and visual expression as students gain knowledge of all facets of yearbook preparation including advertising, merchandising, and photography.

1ENG370 Video Film/Television (Semester, ½ credit)

Recommendation: Must be in 11th or 12th grade

Career Pathways: Arts and Communication

Using video production techniques and equipment, students will learn how to plan, create & edit visual media for various audiences and purposes. Emphasis will be on the use of voice, production strategies, post-production techniques to match the goal of the piece. Students will work on both individual and team projects throughout the course with a focus on time management, communication, and

collaboration. Students will also work with various school organizations to create advertisements and informational pieces. Lastly, students will create pieces that inform the high school community about current events, upcoming events, and more.

1ENG380 Advanced Video Film/Television (Semester, ½ credit)

Recommendation: Passed Video Film Communication (with a B or better) and have instructor permission

Career Pathways: Arts and Communication

Students will build on the subject matter and experiences from the first semester. Advanced Video Production students will take on leadership roles when working with others and working towards a common project or goal. In addition, students will continue to advance their skills using more advanced editing software, and assisting in planning content for dispersion to the high school community. Students may also assist in producing content for local organizations & clubs.

1ENG351/352 Drama for the Actor (Year, 1 credit)

Recommendation: Students must be in 10—12th grades

Career Pathways: Arts and Communication

This course is designed with the student actor in mind. Students will explore all aspects of acting, from exercises and activities to make-up and costuming. Students will also focus on play reading and analysis, essentials of theater history, and basic technical skills. Student actors will produce, perform, and run all technical aspects of a complete show by the end of the year. Some service toward current school productions is required.

1ENG361 Advanced Drama (Semester, ½ credit)

Recommendation: Students must be in 11th or 12th grade, successful completion of Drama

Career Pathways: Arts and Communication

The advanced drama curriculum will revolve around the needs of the production at hand. Students will receive in-depth instruction in lighting, make-up, set design, sound, costume, advertising, directing, producing, and acting. Specific emphasis will vary by term, allowing the student to receive additional credit in subsequent terms.

Life Management Education

In the belief that education should promote the growth of the whole individual—physical, intellectual, emotional and social – the Life Management Education Program encourages and supports the stability of the family unit. This is accomplished through the development of each member of the family, as a responsible independent individual, and as a contributing participant of society.

Courses strive to assist all students in attainment of their individual potential through the development of:

- Essential living skills
- Human relations skills
- Consumer skills for obtaining, allocating and conserving resources
- Career exploration skills
- Life-management skills needed to coordinate the multi-role functions of day-to-day living and working throughout the life cycle
- Risk-management skills

1PEH610 Health (Semester, ½ credit)

Recommendation: None. Required for graduation.

Career Pathways: Arts and Communication, Health Services, Human Services, Natural Resources and Agriscience

The Health class is a 1-semester course required for high school graduation. It is intended to provide students with a brief, but intense, introduction to the major concept areas associated with “healthy living”: the concept of total wellness, disease and infectious disorders, substance use and abuse, addictive behaviors, reproductive health, and risk management. Embodied in this practical approach to understanding good health is the underlying theme that young people must assume responsible initiative in maintaining their own good health through informed choice.

Students will reference various supplemental readings as provided by numerous community health agencies, as well as the course text, “Holt Health” (copyright, 1999). They will also be provided with reprints from Jackie Sower’s text (State Board of endorsed curriculum) entitled “Understanding Sexuality”. In addition, students will receive information from the MPD on alcohol and the law, Michigan’s Zero Tolerance law for minors, Harassment and Sexual Misconduct law, and the meaning of juvenile/adult status as it relates to other areas of “risk”.

Finally, because material associated with ‘sexual health’ is taught in this course, and because the State of Michigan-Department of Education requires such, parents will be advised of specific course content and associated dates that correspond with presentation of this material. An alternative, independent offering in sexual health will be available upon request.

1ELE221/222 Leadership (Year, 1 credit)

Recommendation: 10th—12th Grades

Pre-requisites: Submitted application and letter of recommendation from staff member

Career Pathways: Education, Health Services, Human Services

Leadership is a class designed for students to interact and work with students with special needs. This class is based off of the S.N.A.P. program which stands for Students Needing Accepting Peers. Students will be paired in groups with a student to work with for the semester. Students will be challenged to engage students of all ability levels through pre-planned activities. In this unique class, you'll have the chance to: collaborate on community projects, plan and go on fieldtrips, and develop new skills to promote acceptance of all individuals. Leadership class is an exciting space to have fun while learning with a diverse group of students. In this class you'll make a big difference.

Mathematics

Students are required to earn four credits in mathematics, and must have a math experience during their senior year.

1MTH09911/921 Principles of Algebra (Year, 1 credit)

Recommendation: Teacher recommendation from 8th grade

This course is designed to explore more real-world applications of algebra and can be considered as accessible to all levels of math students while still meeting the algebra credit requirement.

1MTH101/102 Algebra (Year, 1 credit)

Recommendation: None

The content of this course integrates geometry, probability, and statistics together with algebra. Variables, exponents, graphing, systems of equations, and factoring are introduced using real world applications. This course lays the foundation for geometry.

1MTH351/352 Geometry (Year, 1 credit)

Recommendation: Successful completion Algebra or recommendation of math teacher.

This course is the study of plane, solid and coordinate geometry. Algebra and discrete mathematics are integrated throughout. A study of inductive and deductive reasoning, logic, the nature of proofs, congruent and similar polygons, transformations, area and volume are covered.

1MTH353/354 Honors Geometry (Year, 1 credit)

Recommendation: Successful completion Algebra with an A or B, recommendation of math teacher and NWEA/Mstep/PSAT scores. The rigor and pace of this course is for the student who intends to take AP Calculus their senior year. This course is the study of plane, solid and coordinate geometry. Algebra and discrete mathematics are integrated throughout. A study of inductive and deductive reasoning, logic, the nature of proofs, congruent and similar polygons, transformations, area and volume, and foundation of trigonometry concepts are covered.

1MTH201/202 Advanced Algebra (Year, 1 credit)

Recommendation: Successfully completion Algebra and Geometry or recommendation of math teacher Advanced Algebra takes what was learned in previous math courses about solving problems where one or more variables is unknown and goes into greater depth using the standard algebra operations such as order of operations, addition and multiplication properties of equality, etc. Some new ways of solving real world problems, especially using matrices and logarithms, are introduced. The use of graphing calculators is incorporated and will be used in follow-up math courses.

1MTH203/204 Honors Advanced Algebra (Year, 1 credit)

Recommendation: Successful completion of Honors Geometry with an A or B, recommendation of math teacher and NWEA/Mstep/PSAT scores.

The rigor and pace of this course is for the student who intends to take AP Calculus their senior year. Honors Advanced Algebra takes what was learned in previous math courses about solving problems where one or more variables is unknown and goes into greater depth using the standard algebra operations such as order of operations, addition and multiplication properties of equality, etc. Some new ways of solving real world problems, especially using matrices and logarithms, are introduced. The use of graphing calculators is incorporated and will be used in follow-up math courses.

1MTH401/402 Integrated Math I (Year, 1 credit)

Recommendation: Successful completion of Algebra and Geometry or recommendation of math teacher

This class integrates the main themes from geometry and advanced algebra and then builds upon them by delving deeper into topics such as complex quadratic and polynomial equations, conic sections,

advanced trigonometric identities, and complex probability, etc. This class also shows new ways to solve problems which involve crossover subjects such as solving a system of equations which involves either volume or area equations. This class also introduces new techniques to solve real-life and word problems. We will also take time to further our knowledge of graphing calculators. Integrated Math I may serve as a Recommendation for pre-calculus.

1MTH 411/412 Integrated Math II (Year, 1 credit)

Recommendation: Successful completion of Algebra, Geometry, Adv. Algebra, and Integrated Math 1

This course will build upon your knowledge from algebra, geometry, advanced algebra, and provide an extension of the material learned in integrated math I. We will integrate the main themes from these classes and then build upon them by delving deeper into topics such as Building and Interpreting Functions, Probability and Simulation, Polynomial Functions, Quadratic Relations, and Trigonometry. Material will be presented with-in the context of real-world problems that will force students to apply theories and principles to support their solutions. Students will be expected to work both individually and collaboratively throughout the year.

1TCH281/282 Personal Finance (Year, 1 Credit)

Recommendation: 11th or 12th grade students

Career Pathways: Business, Management, Marketing, and Technology

Personal Finance is designed to teach students about financial literacy and how the choices they make directly influence occupational goals and future earnings potential. The real world topics covered include income, money management, spending and credit, saving and investing, as well as risk management. Students will design personal and household budgets utilizing checking and savings accounts, gain knowledge of finance, debt and credit management, and evaluate and understand insurance and taxes.

1MTH601/602 Precalculus and Discrete Mathematics (Year, 1 credit)

Recommendation: Successful completion of Advanced Algebra and recommendation of math teacher.

Career Pathways: Business, Management, Marketing, and Technology, Engineering/Manufacturing and Industrial Technology

This course integrates the mathematics needed for calculus with the fundamentals of discrete mathematics. Special attention is given to the study of functions (polynomial, rational and trigonometric). Recursion, mathematical induction, logic and reasoning, Sequences and limits, polar coordinates, and the use of graphing calculators are covered.

1MTH701/702 AP Calculus (Year, 1 credit)

Recommendation: C or better in Pre-Calculus and recommendation of math teacher.

Career Pathways: Business, Management, Marketing, and Technology, Engineering/Manufacturing and Industrial Technology

This course is the fifth course in the college preparatory sequence. It prepares students well for an introductory calculus course in college, and very successful students will be prepared for a second course in the college calculus series. It reviews the Cartesian plane, functions, and limits, and introduces

derivatives, integration, applications of derivatives and integrals, integration techniques and infinite series. If time, we will also introduce and develop principles of statistics and probability.

AP Calculus students will be strongly encouraged, but not required, to take the College Board AP Exam administered in the spring, with a possibility of advanced standing or credit in college mathematics. All test fees paid by the student.

1MTH801/802 AP Statistics (Year, 1 credit)

Recommendation: Passing Grade (C- or better) Pre-calculus and recommendation of math teacher.

Career Pathways: Business, Management, Marketing, and Technology, Engineering/Manufacturing and Industrial Technology

This course is designed to help students pass the AP Statistics test so that they may gain college credit. Topics included are graph distributions, normal distributions, correlation and regression, two variable relationships, designing experiments, probability, confidence intervals, etc. AP Statistics students will be strongly encouraged, but not required, to take the College Board AP Exam administered in the spring, with a possibility of advanced standing or credit in college mathematics. All test fees are to be paid by the student.

Music

1VPA101/102 Concert Band (Year, 1 credit)

Recommendation: 9-12 grade students

Career Pathways: All Careers, Arts and Communication

The High School Band is designed to accommodate most high school band members. Concepts and music are studied which reflect the general ability level of the group. The focus of the course is Concert Band, which performs several concerts per year. In addition, group members perform at all home football games and in two local parades. Band members also have the opportunity to participate in solo and ensemble competitions and to join the Wind Ensemble for band festival. Leadership opportunities in band happen throughout the year and might include extracurricular ensembles or participation in Tri-M, a music National Honor Society.

1VPA101/102 High School Wind Ensemble (Year, 1 credit)

Recommendation: 9-12 grade students and permission of instructor

Career Pathways: All Careers, Arts and Communication

The Milan High School Wind Ensemble is an advanced group for high school musicians in grades 9 through 12. Musicians in this class are expected to be of the highest caliber. Players are no more than two on a part, so a willingness to perform at a soloist level is a requirement for this course.

The Wind Ensemble will perform at several concerts, competitions, community events, and athletic games throughout the year. Players in this group should also be prepared to work on literature suitable for Solo and Ensemble Festival and other similar honors band competitions. Wind Ensemble players will also perform in conjunction with the High School Band throughout the school year. Leadership

opportunities in band happen throughout the year and might include extracurricular ensembles or participation in Tri-M, a music National Honor Society.

Players who would like to switch instruments or to play a secondary instrument in order to be a part of this ensemble should contact Mrs. Upton. Director placement/director permission to be a part of the Wind Ensemble is required: grade level is not a factor in determining placement.

Wind Ensemble Instrumentation

Flute, 2	Tenor Saxophone, 1	Trombone, 3
Oboe, 1	Baritone Saxophone, 1	Tuba, 1
Bassoon, 1	Trumpet, 3	Percussion, 3
Clarinet, 4 or 5	French Horn, 1	
Alto Saxophone, 2	Baritone, 1	

1VPA601/602 Music Theory (Year, 1 credit)

Career Pathways: Arts and Communication, Sciences (Music Theory is the “Science” of Music)

Music theory is open to students interested in music notation, melody, rhythm, harmonic construction, and composition. Experience as a band or choir member-- or strong experience on piano or guitar-- is highly recommended for success in this course. Additional instruction in jazz theory, music history (jazz/classical/popular) is also provided in conjunction with basic music composition techniques. Course approval by the instructor is required and students must be prepared to communicate regularly with Mrs. Upton.

1VPA201/202 Concert Choir (Year, 1 credit)

Recommendation: Open to all students who want to sing in grades 9-12.

No previous experience is required.

Career Pathways: All careers, Arts and Communication

Concert Choir is open to students who want to sing (no audition requirement) in grades 9-12. This course is a performing ensemble and an academic class. Choir curriculum is designed to develop vocal technique, performing skills, music reading and music history knowledge. Concert choir performs several times each school year including school concerts, honor choir, solo ensemble (for soloists who are studying with a private teacher) and choral festival activities through the Michigan School Vocal Music Association. Students with questions about Concert choir should contact Mrs. Powell:

powells@milanareaschools.org

1VPA211/212 Chamber Choir (Year, 1 credit)

Recommendation: Interview/audition with teacher to demonstrate ability. Students who are interested in qualifying for Chamber Choir should contact Mrs. Powell: powells@milanareaschools.org

Career Pathways: All careers, Arts and Communication

Chamber choir is available to select singers grades 10-12. Chamber Choir singers are ready for an advanced vocal ensemble performance opportunity by demonstrating appropriate vocal technique and musical skills. Choir curriculum is designed to develop vocal technique, performing skills, music reading

and music history/humanitie knowledge. Chamber Choir performs several times each school year including school concerts and honor choir, solo/ensemble festival and choral festival activities through the Michigan School Vocal Music Association. Attendance at well planned events outside of the school day is required. Director placement/director permission to be a part of the Chamber Choir. Students who are interested in qualifying for Chamber Choir should contact Mrs. Powell:

powers@milanareaschools.org

Physical Education

F.A.S.S.T (Flexibility, Agility, Speed and Strength Training)

The F.A.S.S.T. Physical Education curriculum is designed to focus on skills and fitness-based training. This combines Olympic weight training principles and various cardiovascular training techniques. These include: hurdle stretching, dynamic flexibility, speed training, endurance training, powerlifting, Olympic lifting and Kettlebells.

The following is the planned track for the students' as they enter high school:

1PEH200 F.A.S.S.T. Fitness I (Semester, ½ credit)

Recommendations: Grade 9 or first year P.E. students.

Career Pathways: Health Services, Human Services

This course is the foundation of general fitness and or sports' strength and conditioning program. This course must be taken as a Recommendation to all other P.E. Courses.

1PEH210 F.A.S.S.T. Fitness II (Semester, ½ credit)

Recommendations: Successful completion of F.A.S.S.T. Fitness I

Career Pathways: Health Services, Human Services

This course will be for athletes who want to continue to focus on improving their strength and conditioning. It will be an advanced, workout based class.

1PEH220 F.A.S.S.T. Fitness III (Semester, ½ credit)

Recommendations: Successful completion of F.A.S.S.T. Fitness I and F.A.S.S.T. Fitness II

Career Pathways: Health Services, Human Services

This course will focus on college level strength and conditioning.

1PEH350 Recreational Swimming (Semester, ½ credit)

Recommendations: None

Career Pathways: Health Services, Human Services

This elective class is offered to students who enjoy swimming and want a P.E. credit. The student should like swimming and will swim every day. The class will focus on the instruction of all basic strokes and diving and water games.

1M130 Advanced Swimming (Semester, ½ credit)

Recommendations: Skilled swimmer or approval of instructor

Career Pathways: Health Services, Human Services

This course is divided into distance swimming, stroke work and weight training.

1PEH403 Individual Skills Tech (Semester, ½ credit)

Recommendations: Must complete FASST I, participation in a sport recommended

A class designed for athletes with particular emphasis on weight training and individual techniques in football, soccer, basketball, and baseball.

1PEH520 Basketball Techniques (Semester, ½ credit)

Recommendations: Grades 9-11

Career Pathways: Health Services, Human Services

This class is designed for athletics to enhance their basketball skills and knowledge of the game.

Emphasis on speed enhancement, weight training, and strategy is a major theme of the course.

Science

All Milan High School students are required by the state and district to earn four years of science credit for graduation. In the 9th grade year, students are required to take biology or honors biology. During the 10th and 11th grades, students are required to take a chemistry and/or physics course. In 12th grade, students may choose an elective for the fourth science credit. Students interested in a career pathway that recommends more than the state and district requirements are encouraged to take more than one science course during their 10th -12th grade years. Additionally, students interested in the Agriscience program should begin taking the program courses (along with the state and district required courses) during the 10th grade year. The following are some sample scheduling options for students:

Students looking to obtain four credits:

9th grade-biology or honors biology

10th grade-chemistry/honors chemistry or physics/honors physics

11th grade-chemistry/honors chemistry or physics/honors physics

12th grade-elective

Students looking to obtain credits beyond the state and district requirements:

9th grade-honors biology

10th grade-honors chemistry and Human Anatomy & Physiology

11th grade-honors physics and AP Chemistry

12th grade-AP Biology and AP Physics

Students looking to be in the Agriscience program:

9th grade-biology or honors biology AND Zoology elective

10th grade-chemistry/honors chemistry AND Botany elective

11th grade-*physics/honors physics or Natural Resources or Leadership*

12th grade-*Natural Resources or Leadership*

Life Science Courses

1SCI401/402 Biology (Year, 1 credit)

Recommendation: 9th grade

The Biology course involves an in-depth analysis of biological topics that follow the Michigan Merit Curriculum. This course will predominantly cover the Essential Content Standards and will address most Core Content Standards. (See the following link for the [High School Content Expectations](#) in Biology.) This course will address the scientific method, microscopes, biochemistry, cells, principles of water, photosynthesis and respiration, cell reproduction, protein synthesis, genetics, evolution, and ecology.

1SCI551/552 Honors Biology (Year, 1 credit)

Recommendation: 9th grade, recommendation of science teacher

The science department recommends students to have had a minimum of a B+ in Earth Science (or the student's respected eighth grade science course) and an above average MEAP score, or teacher approval. The Honors Biology course involves an in-depth analysis of biological topics that follow the Michigan Merit Curriculum. This course will predominantly cover the Core Content Standards and will address some Essential and Recommended Content Standards. (See the following link for the [High School Content Expectations](#) in Biology.) This course will address the scientific method, microscopes, biochemistry, cells, principles of water, photosynthesis and respiration, cell reproduction, protein synthesis, genetics, evolution, bacteria and viruses, and ecology.

1SCI501/502 Human Anatomy and Physiology (Year, 1 credit)

Recommendation: 11th -12th grades (and highly motivated 10th grade students)

Career Pathways: Health Services, Natural Resources and Agriscience

The science department recommends students to have taken a Biology course and Chemistry course (or concurrently taking a Chemistry course), or teacher approval. This course introduces the study of Human Anatomy and Physiology. Emphasis will be on the relationship between structure and function for each body system, as well as, the interactions between body parts from chemical to systematic. The role of microorganisms and disease within each system will also be explored. A two-month pig dissection is required to assist students with the exploration of the body systems. Students are expected to be self-directed and self-motivated to be successful in this course. *(For those students interested in taking Advanced Placement Biology note that it is advised that students take Anatomy & Physiology before or concurrently with Advanced Placement Biology.)*

1SCI601/602 Advanced Placement Biology (Year, 1 credit)

Recommendation: 11th -12th grades (and highly motivated 10th grade students), successful completion of Biology or Honors Biology, recommendation of science teacher.

Career Pathway: Health Services, Natural Resources and Agriscience

The science department recommends students to have had a minimum of a B+ in Honors Biology (or A- in Biology), minimum of a B+ in Honors Chemistry and/or Honors Physics (or A- in Chemistry and/or Physics), and an above average PLAN score; or teacher approval. *It is also advised that students take Anatomy & Physiology before or concurrently with Advanced Placement Biology.* This course is taught at a college level in terms of content and pace. AP Biology strongly emphasizes laboratory research and is designed to develop critical thinking in many areas of biological science. It is taught much differently from the Biology and Honors Biology courses in that it follows the College Board Advanced Placement Biology curriculum. Students that take the course require and will develop somewhat different skills. Among the skills that are emphasized are reading in science, experimentation, and the use of several instruments and techniques. AP Biology students are strongly encouraged, but not required to take the College Board AP Exam administered in the spring. Students' test scores may earn the possibility of advanced standing or credit in college science. All test fees are paid by the student.

Physical Science Courses

1SCI851/852 Chemistry (Year, 1 credit)

Recommendation: 10th grade

The science department recommends students to have had a Biology course prior to taking Chemistry. The Chemistry course involves an in-depth analysis of chemical topics that follow the Michigan Merit Curriculum. This course will predominantly cover the Essential Content Standards and will address most Core Content Standards. (See the following link for the [High School Content Expectations](#) in Chemistry.) This course will use some math and chemical information in an inquiry-based approach in a laboratory setting. Critical thinking and problem solving skills are utilized as students explore the concepts of measurement, metrics, atomic structure, the periodic table, bonding, states of matter, solutions, equilibrium, kinetics, gases, and acid-base chemistry.

1SCI951/952 Honors Chemistry (Year, 1 credit)

Recommendation: 10th grade, recommendation of science teacher

The science department recommends students to have had a minimum of a B in Honors Biology or an A- in Biology, or teacher approval. The Honors Chemistry course involves an in-depth analysis of chemical topics that follow the Michigan Merit Curriculum. This course will predominantly cover the Core Content Standards and will address some Essential and Recommended Content Standards. (See the following link for the [High School Content Expectations](#) in Chemistry.) This course is mathematically rigorous and chemical information is analyzed in an inquiry-based approach in a laboratory setting. Critical thinking and problem solving skills are utilized as students explore the concepts of measurement, metrics, atomic structure, the periodic table, bonding, states of matter, solutions, equilibrium, kinetics, gasses, thermodynamics, oxidation-reduction, organic, and acid-base chemistry. Students will be expected to perform a variety of lab procedures with accuracy. An accelerated math background and functional grasp of technology is also recommended for students in this course.

1SCI801/802 Advanced Placement Chemistry (Year, 1 credit)

Recommendation: 11th -12th grades (and highly motivated 10th grade students), successful completion of Chemistry or Honors Chemistry, recommendation of science teacher.

Career Pathway: Engineering/Manufacturing and Industrial Technology, Health Services, Natural Resources and Agriscience

The science department recommends students to have had a minimum of a B in Honors Chemistry and B in Advanced Algebra, or teacher approval. AP Chemistry is a first-year college level chemistry course taught at the high school. This course is regulated by the [College Board](#) (for a more complete description of AP Chemistry go to [AP Chem at the College Board](#)). Students will have the opportunity to take the AP Chemistry Exam to possibly receive college credit for the course. (This allows students to take second year chemistry courses as freshman, take other courses that require chemistry as a Recommendation, or to get the necessary laboratory science credit in the first year of college out of the way so the student can take more classes in their desired areas of study.)

1SCI901/902 Physics (Year, 1 credit)

Recommendation: 11th grade

The science department recommends students to have had a Biology course prior to taking Physics. The Physics course involves an in-depth analysis of physics topics that follow the Michigan Merit Curriculum. This course will predominantly cover the Essential Content Standards and will address most Core Content Standards. (See the following link for the [High School Content Expectations](#) in Physics) This course looks at how and why objects move in addition to the effect of energy in the world of motion, electricity, heat, and light. This course goes into some mathematical detail. Thinking scientifically and using logical problem solving skills are points of emphasis with regards to the subject matter.

1SCI921/922 Honors Physics (Year, 1 credit)

Recommendation: 10th grade, recommendation of science teacher

The science department recommends students to have had a minimum of a B in Honors Biology or an A- in Biology or teacher approval. Also, it is recommended for students taking this course to have earned a minimum of a B+ in Algebra and Geometry. The Honors Physics course involves an in-depth analysis of physics topics that follow the Michigan Merit Curriculum. This course will predominantly cover the Core Content Standards and will address some Essential and Recommended Content Standards. (See the following link for the [High School Content Expectations](#) in Physics) This course looks at how and why objects move in addition to the effect of energy in the world of motion, electricity, heat, and light. This course goes into great mathematical detail. Thinking scientifically and using logical problem solving skills are points of emphasis with regards to the subject matter.

1SCI911/912 Advanced Placement Physics (Year, 1 credit)

Recommendation: 11th -12th grades, successful completion of Physics or Honors Physics, recommendation of science teacher

Career Pathway: Engineering/Manufacturing and Industrial Technology, Natural Resources and Agriscience

The science department recommends students to have had a minimum of a B in Honors Physics and B in Advanced Algebra, or teacher approval. AP Physics is a first-year college level physics course taught at the high school. This course is regulated by the [College Board](#) (for a more complete description of AP Physics go to [AP Physics at the College Board](#)). This course is designed to prepare students for the Advanced Placement Physics B exam (the Algebra based version). Students will use equations and algebra to analyze static and dynamic systems. Topics such as vectors, 1D motion, 2D motion, forces, energy momentum, electromagnetic properties, waves, and modern physics will be addressed at a fast pace.

1SCI941/942 Applied Physics (Year, 1 Credit)

Applied Physics is the science course that is incorporated into the Milan Center for Innovative Studies curriculum. Real life application the physical sciences are taught. In the MCIS, science is learned through a project-based learning model. Life, physical, and environmental science topics are incorporated into projects that relate to the everyday world.

Agriscience Courses

1SCI121/122 Zoology (Year, 1 credit)

Recommendation: 9th-12th grades

Career Pathway: Natural Resources and Agriscience

This course includes a complete study of wild and domesticated animals. Zoology is the first class in the agriculture pathway. Students in Zoology will learn about safety, animal anatomy, domestic animal production, genetics, reproduction, animal evaluation and handling, and animal health and nutrition in a hands-on learning environment. Students will have labs and activities to help them understand the animal bodies and behaviors. For five weeks in the fall, we will raise meat chickens in our school greenhouse. This course will prepare students for animal information found in state testing applications and make students aware of career opportunities in the areas of animal science and production. Practical applications in health issues, care, breeding systems, feeding, and evaluation of animals will show students how vital animals are for our survival.

Zoology students are also FFA members, but their level of participation in this organization is optional. Students will have the opportunity to participate in local, state, and national FFA contests and activities as they occur. FFA participation will develop leadership, cooperation, career, and personal skills which are vital in today's world.

1SCI211/212 Botany (Year, 1 credit)

Recommendation: 10th-12th grades, completion of Zoology

Career Pathway: Natural Resources and Agriscience

This course covers many broad topics in the world of plant science. Botany is the second course in the agriculture pathway and is intended for students who have already passed both semesters of Zoology. The course will focus on soil science, plant nutrition, plant anatomy and physiology, plant culture and propagation, greenhouse design and management, landscape design, and floriculture, and crop science. The school greenhouse will be a major part of second semester activities as students will spend many

weeks planting and caring for flowers and vegetables that will be sold in our spring plant sale. The course will prepare students for all aspects of plant information in state testing applications and open career opportunity pathways. Practical applications in forestry, landscaping, greenhouse production, pesticides, conservation, and crop production will illustrate the need and use for plants in our society and environment.

Botany students are also FFA members, but their level of participation in this organization is optional. Students will have the opportunity to participate in local, state, and national FFA contests and activities as they occur. FFA participation will develop leadership, cooperation, career, and personal skills which are vital in today's world.

1SCI101/102 Natural Resources (Year, 1 credit)

Recommendation: 11th -12th grades, completion of Zoology and Botany

Career Pathway: Natural Resources and Agriscience

This is an introductory course in the study of natural resources and their management. Major natural resource topics of study include, wildlife, forestry, soil, air, water, mineral and energy sources. Students will also learn about nutrient cycling and management, environmental issues and policies, sustainable farming systems, and ecosystem management. Hands-on learning experiences in this course include raising salmon from eggs to release in the spring, eradicating invasive plants around the school, and maintaining birdhouses for local bluebird populations. Students interested in careers in natural resources and conservation should consider taking this course.

Natural Resources students are also FFA members, but their level of participation in this organization is optional. Students will have the opportunity to participate in local, state, and national FFA contests and activities as they occur. FFA participation will develop leadership, cooperation, career, and personal skills which are vital in today's world.

1ELE601/602 FFA Leadership (Year, 1 credit)

Recommendation: 11th -12th grades, completion of Zoology and Botany

Career Pathway: Natural Resources and Agriscience

This course covers the basics of leadership styles, theories, and themes. Students will learn about different leadership and employability skills to assist them in obtaining a career or preparing for college. Students will also help plan and conduct the Milan FFA chapter activities throughout the year.

Leadership students are also FFA members, and will be expected to participate in local, state, and national FFA events and activities as they occur. FFA participation will develop leadership, cooperation, career, and personal skills which are vital in today's world.

Social Studies

The wide variety of classes offered in Social Studies represents the needs of our society to study itself and others for pleasure, understanding, or both! Students planning on attending college should not limit themselves to the required, and those who wish to embark on years of travel or the college of lifelong learning should also enjoy the electives. Please follow the list of required subjects as you setup your high school curriculum and add in the electives to enhance your learning opportunities. Freshmen

should be enrolled in World History; Sophomores US History & Geography; Juniors Civics & Economics and Senior Government

1SOC211/212 World History & Geography (Year, 1 credit)

Recommendation: 9th grade

This is the 9th grade Social Studies course. First Semester, this course begins with the study of the appearance of homosapiens on earth and follows the development of major civilizations. Civilizations included are the Egyptian, Greek, Roman, African, Russian and Chinese. The course covers the “Fall of Rome,” and ends with The Central/South American Indian Civilizations. Included in the course are the Rise of Christianity, the Age of Feudalism, and Mesopotamian civilizations.

Second Semester, this course begins with the development of European nations and ends with the Post WWII years. Included are the American Revolution, the French Revolution, and the major leaders: Louis XIV, Napoleon Bonaparte, Peter the Great, and Frederick the Great. The course sets the stage for the 20th century World Wars. The course follows the rise of imperialism and ends with the major events of the 1960s.

1SOC611/612 U.S. History & Geography (Year, 1 credit)

Recommendation: 10th grade.

This is the 10th grade Social Studies Course. U. S Coming of Age: This semester covers the period from the Civil War to the 1920s. Among topics covered will be a look at the Civil War, reconstruction, the west, the rise of industry, becoming a world power, and World War I.

Modern U.S. History: This semester covers the period from 1920 to the present. The course will include the roaring 20s, the depression 30s, World War II, the Cold War, Korea, the Cuban missile crisis, Vietnam, Watergate, the space program, the era of social changes, the conservative tide, and the U.S. in today’s world.

1SOC901/902 Advanced Placement United States History

Recommendation: 10 -12th grade, teacher recommendation.

Career Pathways: Business, Management, Marketing, and Technology and Human Services

A.P. U.S. History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The course prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials- their relevance to a given interpretive problem, reliability, and importance- and to weigh the evidence and interpretations presented in historical scholarship. A.P. U.S. History should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

Although there is no formal Recommendations, Advanced Placement offers to provide high school students the rigors of post-secondary education; It is preferred therefore that students interested/enrolled in this course have demonstrated an academic foundation necessary to meet the challenges of a college level course.

Students enrolled in A.P. US History will have an opportunity to take the A.P. Exam administered by the

College Board. The exam tests knowledge and skills included in a full-year introductory course in United States history from the first European explorations of the Americas to the present. The exam covers political institutions and behavior, public policy, social and economic change, diplomacy and international relations, and cultural and intellectual development.

1SOC101/102 Civics & Economics (Year, 1 credit)

Recommendation: 11th grade

Civics: This is a one semester class offered to 11th graders in order to comply with state mandated standards and benchmarks. Students will be tested on the material when they take the MME test in 11th grade. It is an introduction into citizenship, the branches of government, and the documents that have shaped the country. The class will demonstrate the importance of participating in the American Democracy.

Economics: This a one semester course in the basics of economics will assist the student in attaining knowledge recommended to pass the state's assessment test in the junior year. It will expose students to the language, to the concepts, to the variety, and to the impact of economics on the U.S., on the global community, and on their own pursuits.

1SOC710/711 Government and Consumer Economics (Year, 1 credit)

Recommendation: 12th grade

The **Government** side of this course emphasizes the importance of becoming an active citizen in our American democratic system. To meet this challenge students will engage in one or more of the following activities: attend two government meetings, participate in the C-SPAN investigative journalism project, and/or campaign for a candidate seeking elective office. In addition to traditional government units, students will also study and discuss current issues and public policy questions facing our country in a safe, evidence-based discussion format. The **Consumer Economics** side of the course takes a practical approach to economics and personal finance. Using simulations and interactive EverFi learning modules, students will learn about careers and earning income, financing higher education, money and banking, budgeting, building and using credit, insurance, investing, and completing their tax returns. The course will address the college application process, FAFSA, opportunities in the trades and apprenticeships, scholarship opportunities and competitions, and career planning. As evidence of this learning, all students will make a post-high school plan unique to their individual goals and learning needs.

1SOC801/802 Advanced Placement Government (Year, 1 Credit)

Recommendation: 11th-12th grade, recommendation of social studies teacher

Career Pathways: Business, Management, Marketing, and Technology and Human Services

A.P. Government is a course that provides students an analytical approach to government and politics in the United States. With this study, students will grasp an understanding of the institutions, groups and beliefs that comprise the American political system. The study of concepts and analysis of specific examples will provide the student a profound perspective detailing American citizenship. Advanced Placement offers to provide students the rigors of post-secondary education. Interested students will find a vast array of challenges throughout the yearlong course.

A.P. Government students will be strongly encouraged, but not required, to take the College Board A.P. Exam administered in the spring, with a possibility of advanced standing or credit in college government. All test fees paid by the student.

1ONLMSOC311 Psychology (Semester, ½ credit)

Recommendation: 11th-12th grade

Psychology is the study of the behavior and mental processes. Topics explored in this course include the biology of the mind, consciousness, nature vs. nurture, sensation and perception, learning and intelligence, personality, and motivation. The goal of this course is to help students better understand their own behavior and the behavior of others and create a desire to learn more about Psychology. This is an online course, and students will report to the library to complete their work.

Technology

All courses are electives. There are many courses offered that will benefit the college-bound student as well as the employment-bound student. A wide range of courses are available, and students are encouraged to make careful selections which fulfill their interests and goals. Classes fill early so students are urged to register well in advance.

1VPA410 Computer Graphic Design (Semester, ½ credit)

Recommendations: Teacher recommendation

Career Pathways: Arts and Communication, Business, Management, Marketing, and Technology, Engineering/Manufacturing and Industrial Technology

Students will learn basic graphic design while using the program GIMP. They will create individual projects ranging from free hand mouse drawing, recreating pictures off the internet, photoshop effects like cutting out pictures and placing them on a different picture, and learning most of the features in GIMP to create many different photo effects. Project layouts, ad layouts, packaging design are also topics in this course. This is a hands-on class.

1VPA411 Computer Graphic Design II (Semester, ½ credit)

Recommendations: Computer Graphic Design and Teacher recommendation

Career Pathways: Arts and Communication, Business, Management, Marketing, and Technology, Engineering/Manufacturing and Industrial Technology

Students will advance their skills in the program GIMP. They will learn animation and creating gif files, create business cards and light boards for the school, create illusion projects, and create many types of ads and packages. They also start to learn the program Blender and create 3D solid modeling objects from scratch and put some of them into animation.

1TCH200 Computer Aided Design (CAD) I (Semester, ½ credit)

Recommendations: no prerequisites

Career Pathways: Engineering/Manufacturing and Industrial Technology

Anything that has ever been manufactured has been drawn first. Students learn how to read a ruler and complete pencil drawings that show 1 view, 3 views, and Isometric drawings the first 7 weeks. Then we move to a CAD software the rest of the semester creating solid model figures and start using 3D printers to create what we draw.

1TCH210 Computer Aided Design (CAD) II (Semester, ½ credit)

Recommendations: Completed CAD I

Career Pathways: Engineering/Manufacturing and Industrial Technology

CAD II is an extension of CAD 1 that continues using the same CAD software program. Students will learn how to do Auxiliary and Section views as well as learning tolerances in order to 3D print many different projects. We create Die casting molds and 3d print them to melt wax to put into them to create actual parts that students make. Students also come up with a project to 3d print, market, and sell.

1TCH215 Computer Aided Design (CAD) III (Semester, ½ credit)

Recommendations: Completed CAD II

Career Pathways: Engineering/Manufacturing and Industrial Technology

CAD III is an independent study class where the students come up with a project or multiple projects they want to design and 3D print.

1TCH230 Architecture I (Semester, ½ credit)

Recommendations: None, but CAD recommended, Grades 10-12

Career Pathways: Engineering/Manufacturing and Industrial Technology

Students will learn the design elements of different parts of a house....creating foundation plans, sectional views, roof plans, elevations and floor plans for living rooms, bathrooms, garages, foyers, kitchens, and more. Students will be learning a 3D solid modeling program called Revit and will be able to produce "Walkthroughs" of the rooms and houses designed.

1TCH240 Architecture II (Semester, ½ credit)

Recommendations: Must pass Arch I Grades 10-12

Career Pathways: Engineering/Manufacturing and Industrial Technology

This class is a continuation of Arch I using the same program Revit as learned in Arch I. Students will design a house plan and create a scale model of the design, they will design a neighborhood plan and create houses both on Revit and Scale models of those houses into the neighborhood design, and may enter a state contest in designing a set of house plans.

1TCH401/402 Introduction to Engineering Design (Year, 1 credit)

Recommendations: no prerequisites

Career Pathways: Engineering/Manufacturing and Industrial Technology

This class revolves around the design and engineering process with an emphasis on solving Water, Land, Space, and Air transportation problems. We will also look at how products are made, manufactured, and packaged. The class teaches technical drawings, working in groups, and will have many hands on activities

1T210 Internet & Design (Semester, ½ credit)

Career Pathways: Business, Management, Marketing, and Technology, Engineering/Manufacturing and Industrial Technology

The Internet course is designed for students as an elective course. The internet course hits many different types of programs and software from , Pivot, Scratch (video game design), video editing, creating web pages on various subjects of technology, using Gimp to create flyers and posters, Audacity for podcasts, and the MIT App inventor to create apps for your phone. This course is designed for one semester.

Visual Fine Art

1VPA301/302 Art I (Year, 1 credit)

Recommendations: An interest in fine art

This course lays the groundwork for further studies in the arts or applied arts. It is designed for the beginning art student who has little or no experience but wants to learn to create original designs, learn to draw and to use color. Art I students experiment with most of the media available: paper, pencil, watercolor, tempera paint, pastels, charcoal, and ink. They are involved in exploring numerous design problems, using the principles of design to solve them. Explorations and problem-solving include both two and three-dimensional artwork. Art I students will work with basic perspective, study art history, and the art of other cultures. Participation is a major part of the course. There will also be reading and writing assignments related to art as part of the course.

1VPA311/312 Art II (Year, 1 credit)

Recommendations: 2 Semesters of Art I with at least a C average

Career Pathways: Arts and Communication, Engineering/Manufacturing and Industrial Technology

The first semester of this studio course will focus on two-dimensional drawing and painting. Students will apply the principles of design, using a varied range of media: pastel, charcoal, watercolor, acrylic paint, colored pencil. Drawing on-site in various community locales, figure drawing and portraiture are included in this second year art course. Students will continue to look at art from other cultures and artists from the past and present.

They will be expected to read and write and to devote at least an hour a week to their projects outside their scheduled class time. In addition, sketchbook homework may require another hour a week.

Students will be competitive with art students in our region and in the state through exhibit opportunities (juried and non-juried).

1VPA321/322 Art III (Year, 1 credit)

Recommendations: 4 Semesters of Art I and Art II with at least a C average

Career Pathways: Arts and Communication, Engineering/Manufacturing and Industrial Technology

Art III is a continuation of Art II.

1VPA340 Pottery Studio I (Semester, ½ credit)

Recommendations: An interest in working with clay everyday while at school

Career Pathways: Arts and Communication, Engineering/Manufacturing and Industrial Technology

Pottery Studio is a hands-on experience designed for the student who prefers working with clay.

Students will learn hand-building techniques including pinch, coil, slab, drape and press mold – making a total of 10 pottery projects during the semester. Students’ work is exhibited regularly and they are free to keep or sell their work as long as the \$10 fee is paid.

1VPA350 Pottery Studio II (Semester, ½ credit)

Recommendations: Pottery I with at least a C average

Career Pathways: Arts and Communication, Engineering/Manufacturing and Industrial Technology

This class continues the functional pottery making of Pottery Studio I but with more sophisticated and complex forms. Projects in this class will include the study of ancient pottery of the world, with corresponding artwork. Students will also explore non-functional form, which crosses the boundary into sculpture. Non-traditional glazing methods will be used along with traditional. Students may keep or sell the 10-12 projects they complete during the semester as long as the \$10 fee is paid.

1VPS360 Pottery Studio III (Semester, ½ credit)

Recommendations: Pottery I and II, B or better in Pottery II

Career Pathways: Arts and Communication, Engineering/Manufacturing and Industrial Technology

Pottery III students will continue to pursue the traditional pottery of other countries and have a chance to explore the potter’s wheel. Recommended for students with a strong interest in ceramics, who can self-direct their pottery making. This class is offered at the same time as Pottery II if space is available.

World Languages

Learning a world language increases students’ range of communication and knowledge of the customs of other nations. Also, a world language can greatly help add to students’ knowledge of English. A good background in grammar leads to greater success in learning a world language. All students need to complete two years in one world language as a graduation requirement. Students who plan to attend college should investigate world language requirements at the college(s) of their choice. In most cases, it is highly recommended that college-bound students have at least three world language courses in high school.

1F101/102 Spanish I (Year, 1 credit)

Recommendations: None

This course is a basic introduction to Spanish with an emphasis on listening and speaking, proper pronunciation and vocabulary acquisition. The course also includes basic grammar, reading, and learning about cultures of Spanish speaking people.

1F201/202 Spanish II (Year, 1 credit)

Recommendations: Spanish I

Some time is spent reviewing the grammar and vocabulary taught in Spanish I. An emphasis is placed on vocabulary and conversation with daily life themes and the past tense. We will continue and deepen our understanding of Hispanic cultures.

1F301/302 Spanish III (Year, 1 credit)

Recommendations: Spanish II

This course involves strengthening areas in speaking, writing, reading, and listening. The students continue to add to their Spanish vocabulary and learn about the cultures of different Spanish speaking countries. Emphasis will be placed on learning and using two different past tenses.

1F401/402 Spanish IV (Year, 1 credit)

Recommendations: Spanish III

Spanish IV continues to strengthen areas of student speaking, writing, reading, and listening. Three new verb tenses(conditional, future, and subjunctive) are covered this year as well as new vocabulary. There is a focus on Spain, literature, and Hispanic culture.

1F501/502 Spanish V (1 year Credit)

Recommendations: Spanish IV

Spanish V is a course focused on broadening and strengthening the skills learned in Spanish IV. We will work to expand students' vocabulary base and grammar understandings. Increased emphasis will be placed on oral communication, creative writing and literary analysis at an advanced level. Different cultural topics will be studied, including social, religious, and political issues affecting Spanish speaking countries. Also, there will be emphasis on the environment, job applications, interview skills, and careers.

South and West Washtenaw Consortium

Career and Technical Education

Chelsea • Dexter • Manchester • Milan • Saline

<https://www.salineschools.org/schools/swwc/>

The major purpose of the courses included in this section is to prepare the student with entry level and transferable skills and knowledge needed to obtain employment. The student's selection of a career and technical education course in no way would prevent him or her from furthering their education beyond high school. Additional program materials are available in the guidance office or from the instructors. The courses are full-year courses, open primarily to juniors and seniors. Enrollments are limited; therefore, it is essential that students indicate their desires when considering their schedules for the fall. Interested students must complete an application form that can be acquired from the counselor or any career and technical education instructor. This application must be returned to the guidance office at the time of scheduling in order to be considered for the program. A committee will screen all applicants; if applications exceed the openings available, acceptance will be based upon career goals, attendance record, teacher recommendation and graduation date plans. Priority will be given to seniors who will be in class the full year, juniors next, then seniors who anticipate mid-year graduation or reduced schedules. Students not electing the program by April cannot be guaranteed a slot in the program of their choice. Bus transportation is provided for morning sessions at Saline High School during MHS 2nd and 6th period classes only. Check with your counselor if transportation is a concern.

The Career and Technical Education Center (CTE Center)

Located at Saline High School

The CTE Center is available to serve the needs of all students enrolled in the Career and Technical Education Programs offered by the South and West Washtenaw Consortium. The Center provides students with a centrally located facility where they can receive assistance in developing specific academic skills related to their career oriented classes, in careful career planning, and in job placement. The Center also provides students assessment services and laboratory experiences related to individual career and technical needs. The goal of the CTE Center is to help all Career and Technical Education students attain their career objectives.

It is the policy of the South & West Washtenaw Consortium not to discriminate on the basis of race, color, national origin, gender, age, disability, height, weight, religion, or marital status in any of its programs, activities or employment. Inquiries regarding this policy should be directed to Associate Superintendent of Personnel, 200 N. Ann Arbor, Saline, MI 48176

All 2nd year students must have instructor approval to register for the course.

AGRISCIENCE

Plant/Animal Science (Year-AM)

Recommendation: Grades 11-12

Animal – This introductory pre-veterinary animal care course is for students exploring careers in the Natural Resources-Agriscience Career Cluster or Health Care Cluster. This class concentrates on livestock, horses, fish and companion animals. Units of study include: importance of the animal industry, classification, selection, anatomy, physiology, genetics, breeding, behavior, nutrition, health, animal

judging, dog grooming, aquaculture, meat and dairy food identification. The first semester class raises 50 broiler chickens as part of the Michigan FFA Poultry Improvement Contest. Also, students have an opportunity to attend the National FFA Convention in Louisville, Kentucky in the fall. The second semester class competes in the Michigan FFA horse judging, poultry judging, meat judging and dairy foods contests at Michigan State University.

Plant – This introductory horticulture course is for students exploring careers in the Natural Resources – Agriscience Career Cluster. Units of study include plant identification, anatomy and physiology, forestry, soil conservation and land site analysis, plant propagation, controlled environment plant systems, plant chemistry, artificial lighting and design-construction of hydroponic systems. First semester students have an opportunity to attend the National FFA Convention in Louisville, Kentucky and Made for Excellence Conference at MSU. Second semester class competes in the Michigan FFA agronomy judging, soils judging, greenhouse crop judging and ecosystems judging contests at MSU. Leadership and communication skills needed for success in this career cluster are developed through FFA involvement. Leadership and communication skills may be developed through FFA involvement in contests, cooperative projects, committee work and activities.

AGRISCIENCE

Landscape and Turf Management (Year-PM)

Recommendation: Grades 11-12

Turfgrass Science, Golf Course, Landscape Management, Design & Construction

Recommendation: Grades 11-12, Plant Science preferred, Earth Science or Biology equivalent.

This is an advanced plant science class that will prepare students for immediate entry into the green industry or 2/4 year college program in golf course management, commercial-sports turf management or nursery-landscape construction. Students will learn how to organize their own turf/landscape business, operate commercial landscape power equipment, survey land, design a landscape plan using paper and PRO-Landscape CAD computer program, prepare a budget, bid proposal, keep business records and construct a landscape project. Intensive skills in landscape plant identification, pest management and plant care will be developed. Students are required to complete a minimum of 4 weeks of seasonal green industry internship working for a golf course, turf maintenance or landscape business as part of their class experience. First semester students have an opportunity to attend the National FFA Convention in Louisville Kentucky and Made for Excellence Conference at MSU. The second semester class competes in the Michigan FFA nursery-landscape judging, turf management judging or ag-mechanics contests at MSU. Leadership and communication skills needed for success in the green industry may be developed through FFA involvement in contests, cooperative projects, committee work and activities.

Auto Technology I (Year-AM & PM)

Recommendation: Grades 11-12

This is a course in which the student applies the principles and functions of components as they pertain to automotive systems. The course is divided into three major areas of study, including a light service unit, automotive electrical systems, and braking systems. Included in the light service unit are topics ranging from reference materials and micrometers to basic vehicle systems like cooling, lubrication and wheels and tires. The automotive electrical systems unit includes all aspects of automotive electrical systems from the basic battery, alternator and starter to advanced electrical diagnostics, while the braking systems unit covers all aspects of automotive braking systems, including hydraulic principles, disc and drum braking systems, and anti-lock braking systems. The laboratory portion covers approximately 70 percent of this course. The class is designed to provide the student with a relevant and realistic

hands-on training for preparation for the automotive servicing field. Students should be able to obtain state mechanic certification in at least two of the test categories. NATEF certification is available. *Articulation is available with Washtenaw Community College.*

Auto Technology II (Year-Early Start AM)

Recommendation: Grades 11-12, Successful completion of Auto Technology I

This course covers an advanced study of topics introduced in the Recommendation course, plus additional instruction in two major areas of study. The major areas of concentration are steering, suspension, wheel alignment, and an extensive unit on engine performance/driveability. The steering, suspension, and wheel alignment unit covers all aspects of current vehicle designs, including air assist. The engine performance/driveability unit covers a vast number of topics, including electronic fuel injection, computerized engine control, exhaust gas emission testing and analysis, ignition systems, and compression and leakdown testing. State of the art diagnostic equipment will be emphasized throughout this unit. The course is exclusively designed to provide the student with relevant and realistic hands-on training for preparation for the automotive servicing field, as well as establishing a foundation for possible careers as product testing technicians, dynamometer technicians, service managers, parts managers, factory service representatives, and engineering technicians. Students should be able to obtain state mechanical certification in steering, suspensions, and engine performance after successful completion of this course. NATEF certification is available. *Articulation is available with Washtenaw Community College.*

Building Trades (Year-AM & PM) – Chelsea High School/On-Site

Recommendation: Grades 11-12

The Building Trades program prepares a student for employment in the construction industry. There is much for the student to learn in the field, and the immense diversity of career opportunities makes this industry one of the most interesting and challenging. The Building Trades class prepares the student with entry-level skills needed for employment through the actual construction of a house. The specific areas of study include: site preparation, dry wall, masonry, finish carpentry, rough carpentry, painting and wall covering, heating, plumbing, construction techniques, wiring, insulation, management skills and employability skills. *Articulation is available with Washtenaw Community College.*

CAD/CAM Engineering & Design (Year- PM)

Recommendation: Grades 11 - 12

This is a class in computer aided design (CAD) and computer aided machining (CAM). Automated manufacturing, rapid prototyping, tabletop manufacturing, CAD/CAM and CNC programming are industry standards that students need to know to compete in tomorrow's job market and also prepare them for college. Students considering entering the field of engineering, design, machine tool, or any aspect of manufacturing will benefit from this class. Using state of the art software (MasterCam), students will gain job skills and college level experience in CAD/CAM programming. Maximum benefits to the students occur if Machine Tool Technology is taken with this course during the student's junior or senior year. This class will give students the power to design and visualize in 3D, generate tool paths and NC-code and produce the drawn part using a variety of industrial three axis machine tools. Rapid prototyping and pre-production using CAD/CAM technology is in high demand and is considered to be an essential skill in design and engineering professions as well as many manufacturing technologies today.

Computer Servicing & Associated Electronics (Year-AM)

Recommendation: Grades 11-12 and successful completion of Algebra

This class is designed to provide the student with a foundation in basic electronics with concentration in computer systems construction, repair, troubleshooting and upgrading. Basic electrical fundamentals will be covered including DC circuitry, reading schematic drawings, wiring and soldering. The focus of the class will be in preparing students to be computer repair technicians. Computer technicians are in high demand and are responsible for troubleshooting and repairing computers. Upgrading and total construction of PC's will be experienced in this class, following the industry standard of A+ computer repair certification standards. Students that excel will be prepared for A+ computer certification testing.

Co-operative Education – “Capstone Experience”

Recommendation: Open to seniors; must be concurrently enrolled in the related CTE class. Previous enrollment as a junior in the related class is required, with core competencies in safety and curriculum documented. Application and interview process determines acceptance.

This program provides on-the-job training in Career & Technical (CTE) programs such as Building Trades, Business Technology, Child Care Services, Cosmetology, Health Sciences Technology, Hospitality/Food Service, Marketing, and several trade and industrial occupations. Juniors who have completed, or are currently enrolled in a related CTE class are eligible to apply each spring for the following school year. Juniors, with approval, may apply for a second semester placement during their junior year provided they have excellent references from their CTE teacher and counselor, have excellent attendance, and have documented proficiency in the core curriculum and safety, as required by state and federal laws. Applications will be processed by a committee of counselors, teachers, and administrators. Criteria for acceptance includes the student's occupational goals, attendance and disciplinary records, attitude, and instructor recommendations. One credit for each released school period can be earned. For the first hour released, 17.5 minimum hours of work are required; 7.5 additional hours are added to the work minimum for each additional hour released from school. Students will be evaluated at least every nine weeks by the employer. They will also be required to attend weekly meetings, complete weekly assignments, and adhere to program standards and policies.

Cosmetology (Year-AM) Off Site at Huron Valley Beauty Academy

Recommendation: Grades 11-12

This program is open only to 11th and 12th grade students who have made a serious commitment to become a professional cosmetologist. Limited space will be available for seniors who are willing to commit to a year beyond graduation to complete the program. The Cosmetology program prepares a student for employment in one of our nation's largest personal service industries. The Cosmetology program prepares a student with the entry-level skills needed for employment in the beauty trades. Upon completion of the 1500 hours combined theory and clinical instruction, the student will be qualified to take the Michigan State Board of Cosmetology exam. Class work includes the following areas of study: Sanitation, bacteriology, cosmetology laws and rules, personal hygiene, hair shaping, hair dressing, finger weaving, hair coloring, chemical reconstruction, applied anatomy, physiology and histology of the human head, hands, nails and skin, applied chemistry as related to skin, hair and nails, manicuring, facials, salon management and employability skills. Students must purchase required uniforms and arrange their own transportation to the West Ann Arbor location. A counselor can provide further information and the required application forms.

Careers in Education (Year-AM & PM)

Recommendation: Grades 11-12; successful completion of Parenting or permission of instructor

This class is designed to introduce students to careers in early childhood education. Experience with preschoolers is gained by assisting at Pooh Corner, a licensed nursery school housed at Historic Union

School. The program includes the study of social, emotional, cognitive, and physical development of children between the ages of two and one-half and five years of age, lesson planning and actual teaching. This course may be taken for one or two years. During the second year, students will be placed in local preschools, child care centers and early elementary classrooms. Students have the opportunity to earn the national Child Development Associate certificate. *Articulation is available with Washtenaw Community College..*

GraphX Academy (Year-AM)

Recommendation: Grades 11-12

GraphX Academy provides skills and experiences for the student interested in graphic communications as a career or as background for advanced education after high school. GraphX students experience on-site visits throughout the school year to local printing companies where they are exposed to all areas of the business. This gives students the opportunity to experience the latest technology and employability skills needed to be successful in a graphic communications career. The school-to-work transition is a major focus of GraphX Academy.

Health Science Technology (Year, PM Saline H.S.)

Recommendation: Grades 11-12

Health Sciences Technology has been designed for eleventh and twelfth grade students interested in all levels of health careers at the professional and paraprofessional levels. Areas of study include anatomy and physiology, disease process, medical ethics, communications, medical terminology, career exploration, and trends in healthcare, as well as a look at many college programs. Students will develop skills in CPR, vital signs, safety, and patient care skills that apply to multiple health fields, such as medicine, physical therapy, x-ray, nursing, lab technology, and more. Students will gain practical experiences in hospitals, long-term health facilities, and professional offices and clinics in the community. Rotations will introduce students to the real working environment of the health career being considered. Many professional schools will accept this experience as the volunteer hours required for admission. Individual students may elect to continue into a second year independent study or internship pending instructor approval and a B- average in the first year. College-bound students considering a career in the health field would benefit greatly from this course by determining their interests and abilities and experiencing first hand. Students who complete all the requirements are eligible to take the State of Michigan tests to become a Certified Nursing Assistant (CNA). *Articulation is available with Washtenaw Community College and Ferris State University.*

Health Science Technology Internship (Year)

Recommendation: Health Sciences Technology; Permission of instructor

Hospitality/Culinary Arts (Year-AM)

Recommendation: Grades 11-12

This course is designed to introduce students to the hospitality industry, which includes Culinary Arts, Food Service, Hotel/Motel and Travel/Tourism, with a major focus on Culinary Arts. Students will learn and apply principles of safety, sanitation, and food preparation. They will operate "The Hive", our student-operated restaurant, as well as do catering and special projects. In addition, they will learn and practice employability skills, goal setting, and problem-solving. They will apply math and communication skills to work situations. Students may take this class as a junior, a senior, or both. Students are involved in long and short-term restaurant or hotel internships during class time. Students have the opportunity to earn a nationally recognized certificate through the National Restaurant Association with ServeSafe

and ProStart programs. *Articulation available at Ferris State University, Grand Rapids Community College, Henry Ford Community College, Lake Michigan College, Michigan State University, Washtenaw Community College, West Shore Community College, The Art Institutes, Cornell University, the Culinary Institutes of America, Kendall College, New England Culinary Institutes, Johnson and Wales University, and other colleges and universities across the USA.*

Computer Integrated Manufacturing (Year-AM)

Recommendation: Grades 11-12

The Machine Tool Technology program will train students to go on to become technicians in the modern computerized manufacturing industry. This class will be a good choice for the advanced drafting and pre-engineering student as well as the machinist. The class includes training in Computer Aided Drafting (CAD) and Computer Numerical Controlled (CNC) lathes and mills as well as basic machine tools such as lathes, mills, drills, and grinders. *Articulation with Washtenaw Community College and Ferris State University is available to students.*

Marketing I (Year-AM)

Recommendation: Grades 11-12

This class meets for a full year and is open to students interested in marketing, management or entrepreneurship. In this class, students will learn vital skills necessary to be successful in a marketing career. The class focuses on employment letters, salesmanship, interviewing, merchandising, management, retailing, promotion and much, much more! Students in this class completely manage the school store, the TNT, which includes ordering, pricing, displaying and promoting products as well as conducting market surveys. Each student will be given the opportunity to manage the store as a cashier or salesperson. The students can be a part of the international association of marketing students, called DECA. Participants may compete in areas related to marketing, management and entrepreneurship at the district, state and international levels. Visit www.salineschools.com/users/synowiec for more information.

Marketing II: Entrepreneurship (Year-AM)

Recommendation: Successful completion of Marketing I

This class provides more focus on the detailed approaches to the marketing concepts introduced in Marketing I and further focus on the written competitive events offered through DECA. Marketing II students focus on the aspects of opening and owning their own business and enhance their ability in becoming an entrepreneur. Each student will choose their own sole proprietor business idea and will leave the class with their own unique business plan. Marketing II students will join Marketing I in all the marketing and DECA opportunities. Students are also required to work in the school store, which they managed in Marketing I.

Welding and Fabrication Technology (Year-AM)

Recommendation: Grades 11-12

The Welding and Fabrication Technology course prepares students for employment in the welding and fabrication industry. Skill development in the joining processes of MIG, TIG, STICK, and OXY-ACETYLENE welding and brazing will be developed. Fabrication processes including shearing, bending, burning, and plasma-arc cutting will be taught. Basic power tool operation including drill press, grinding and finishing will be taught through the development and construction of student projects. In addition, welding metallurgy and blueprint reading will be covered. Successful completion of this course will prepare the

student for entry into industry or college for advanced study. Students that excel should be prepared for the AWS welding certification test. *Articulation is available with Washtenaw Community College and Ferris State University.*

Visual Imaging Technology (Year-AM)

Recommendation: Grades 11-12

VIT is about the design and production of media. VIT focuses on two major types of media: print media and electronic media. Print media includes such things as posters, CD covers, business cards, t-shirts, and many other products. Electronic media includes digital video and audio, digital photography, animation, and flash applications for the web. What's common between print and electronic media can be summed up this way, it's all digital. Given the dynamic nature and fluidity of the visual imaging industry, one of the primary goals of the class is to give students a broad range of experience which encompasses both print and electronic media. VIT is a hands-on process using the tools they learn about to complete various media production projects and assignments. VIT prepares students for a career path within the visual imaging industry. Going into a college level program or going directly into a job during and after high school are viable career path options for aspiring VIT students.

It is the policy of the South & West Washtenaw Consortium not to discriminate on the basis of race, color, national origin, gender, age, disability, height, weight, religion or marital status in any of its programs, activities or employment.