

# *Monroe High School Curriculum Guide*

*2017 - 2018*





# Monroe High School

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Dear MHS Family:

The MHS 2017-18 Curriculum Guide is filled with new and rediscovered opportunities! It is our hope that each student will find their niche academically and socially while keeping their sights on inspiring post-secondary options.

Academically, the Monroe High School comprehensive curriculum and Career and Technical course offerings, along with our College Board Assessment Battery and Advance Placement course offerings, are second to none in our county. MHS course experiences include partnerships with ProMedica for our Health Science students, the Monroe County workforce for our co-op students, and the Michigan Department of Education for the Monroe County Technical and Career Early College option. Our College Board Battery includes twice-yearly academic monitoring using the PSAT (Preliminary Scholastic Assessment Test) as students work toward the SAT (Scholastic Assessment Test) for career and college readiness.

As described in the 2017-18 Curriculum Guide, college options for MHS students include Direct College, Dual Enrollment, Career and Technical Education Early College, and eleven Advanced Placement course opportunities. Depending on a student's Educational Development Plan (EDP), we can partner with Monroe County Community College and other colleges in our area to enrich the high school experience with individualized Early College opportunities for all career pathways. <http://www.monroe.k12.mi.us/MHS/2783-Cirriculum-Guides.html>

The following page has a sample EDP that students can follow all through MHS under the guidance of a student service staff member or Trojan Family Time mentor.

Social and Emotional Intelligence is as much a part of being a highly productive member of society as IQ. MHS extracurricular and club offerings are extensive. In addition, our Trojan Family Time curriculum is designed so students connect with a mentor and a grade level cohort that they will remain with throughout high school. The TFT curriculum focuses on leadership attributes that encourage students to become independent learners while working together with a cohort. It is our hope that all students will develop their own unique leadership styles.

Please maximize all that MHS has to offer you.

We are Monroe!

Sincerely,

Sandy Kreps – Principal



## SAMPLE Monroe High School 5-year Educational Development Plan Template (EDP)

	H.S. credit earned at Monroe Middle School	Grade 9	Grade 10	Grade 11	Grade 12	Grade 13 for MCTC Early College Students
<b>English</b> 4 credits required						
<b>Math</b> 4 credits required						
<b>Science</b> 3 credits required						
<b>Social Studies</b> 3 credits required						
<b>Phys. Ed./Health</b> .5 credit of PE and .5 credit of Health required						
<b>Direct College, and College Dual Enrollment</b>						
<b>CTE courses, Co-op, Internship, MCTE Early College</b>						
<b>World Language</b> 2 credits required						
<b>Visual/Performing Arts</b> 1 credits required						
<b>Electives</b>						

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# **MONROE HIGH SCHOOL ADMINISTRATIVE STAFF**

## **Administrators**

Mrs. Sandy Kreps, Principal  
Mrs. Delsie Sissoko, Assistant Principal  
Mr. Michael Foley, Assistant Principal  
Mrs. Cathy McDonald, Assistant Principal  
Dr. John Ray, Director of Athletics  
Mr. Bill Ferrara, CTE Director

## **Board of Education**

Mr. Matthew Bunkelman  
Mrs. Florene Mentel  
Mr. Robert Nicols  
Ms. Rosalie Pasko  
Ms. Cheryl Sweeney  
Ms. Cindy Taylor  
Mr. Lawrence VanWasshenova

## **MONROE PUBLIC SCHOOLS MISSION STATEMENT**

Monroe Public Schools is committed to being the premier education organization in the region. We are devoted to promoting high expectations for all in a state of the art 21st century curriculum.

We recognize that all of the students and the communities that we serve are our customers, and we promise to make all decisions in their best interest.

## **NONDISCRIMINATION POLICY**

It is the policy of the Monroe Public Schools not to discriminate on the basis of race, color, national origin, gender, age, disability, religion, height, weight or marital status in its programs, services, employment, or any other activities. For information contact the office of the Superintendent of Schools, 1275 N. Macomb Street, Monroe, MI 48162, 734-265-3070.

## **MONROE PUBLIC SCHOOLS' NON-DISCRIMINATION GRIEVANCE PROCEDURE FOR TITLE VI, TITLE IX, AND AMERICANS WITH DISABILITIES ACT OF 1990**

Section 1: If any person believes that the Monroe Public Schools or any part of the school organization has inadequately applied to the principles and / or regulations of Title VI, Title IX, Americans with Disabilities Act of 1990, Michigan Handicappers Law as Amended, or is in any way discriminatory on the basis of sex, color, national origin, age, religion, height, weight, marital status, handicap, he/she may bring forward a complaint, which shall be referred to as a grievance, to one of the local Compliance Coordinators within 180 days of the alleged violation.

Section 2: The person or his/her representative who believes he/she has a valid basis for a grievance shall discuss the grievance informally and on verbal basis with the appropriate Compliance Coordinator who shall in turn investigate the complaint and reply with an answer to the complaint within five (5) business days. If this reply is not acceptable to the complainant, he/she may initiate formal procedures according to the steps listed is not acceptable to the complainant, he/she may initiate formal procedures according to the steps listed below. The Compliance/Coordinator shall maintain written record of the informal conference and response.

- Step 1: A written statement of the grievance signed by the complainant shall be submitted to the appropriate compliance Coordinator who shall further investigate the matters of grievance and reply in writing to the complainant within five (5) business days.
- Step 2: If the complainant wishes to appeal the decision of the Compliance Coordinator, He/she or his/her representative may submit a signed statement of appeal to the Superintendent of School or designee, within five (5) days after receipt of the local Coordinator's response. The Superintendent or designee, shall meet with all parties involved, formulate a conclusion, and respond in writing to the complainant within ten (10) business days.
- Step 3: If the complainant remains unsatisfied, he/she or his/her representative may appeal through a signed, written statement to the Board of Education within five (5) business days of receipt of the Superintendent's response in step 2. In an attempt to resolve the grievance, the Board of Education Grievance committee shall meet with the concerned parties and their representative within fifteen (15) business days of the receipt of such an appeal. A copy of the Board's disposition of the appeal shall be sent to each party within ten (10) business days of this meeting.

*Note: Complainant, or complainant's representative, has the right to file a complaint at any time regarding any alleged violation with the appropriate government agency or with the court of proper jurisdiction.*

# MONROE HIGH SCHOOL

## VISION STATEMENT

The vision of Monroe High School is to inspire and educate all students in a comfortable and safe atmosphere where they have an equal opportunity to meet and exceed our high expectations. The school community will work cooperatively with the greater community to maximize each student's potential. Together we will guide our students toward becoming responsible, caring, and productive citizens who possess ambitious and agile minds ready to navigate their futures in our global society.

**MHS Guiding Forces**

- We will take care of one another
- We will have dignity and respect for ourselves and others
- We will practice acceptance, empowerment, and risk-taking
- This will be a place of learning, where we will put forth our best effort
- We will promote a safe environment for our MHS community

Comprised by the Senior Leadership Team


### Attention Students and Parents

Due to the current budget for Monroe Public Schools, all courses and programs are subject to budget considerations, and may not be offered for the upcoming school year.

## GENERAL INFORMATION

- Students are required to enroll in five (5) classes each trimester.
- Course change requests must be made **within the first three days of the trimester**. Teacher requests can not be honored.
- Students are required to meet the Michigan Department of Education state testing requirements in order to graduate.
- Each student should plan carefully with the Student Services Department to insure they meet all requirements for post-secondary options.
- A student will receive .5 (half) credit for a one trimester course.
- A student will receive 1 (one) credit for a two trimester course or a double block course.

## GRADUATION REQUIREMENTS

The Michigan State Board of Education provides school graduation requirements that provide rigor, relevancy, and relationships in our high schools across the state through the Michigan Merit Core Curriculum. This curriculum requires specific courses students will take during their four years of high school to be eligible for graduation. **These requirements are listed below and are marked throughout the curriculum guide with a .**

### REQUIRED COURSES

	<u>CREDITS</u>
English	4.00
Math	4.00
Science	3.00
Social Studies (3.00 credits)	

To include .5 credit of each of the following:

U.S. History & Geography A.....	0.50
U.S. History & Geography B.....	0.50
Economics.....	0.50
Civics.....	0.50
World History & Geography A.....	0.50
World History & Geography B.....	0.50
Physical Education.....	0.50
Health.....	0.50
Visual, Performing or Applied Arts.....	1.00
Foreign Language.....	2.00

**Class of 2018 – 27 Credits**

**Class of 2019 – 28 Credits**

**Class of 2020 – 29 Credits**

## REQUIRED GRADUATION CREDITS

### ADVANCED PLACEMENT COURSES

The AP curriculum provides rigor and helps develop an understanding of the time management, study skills and independent learning needed for the demands of college. The AP exam prep and exam, offered by College Board, is part of the MHS AP curriculum. When selective colleges review transcripts for admissions, many times they make their decisions on the rigor of the transcript as defined by the amount of AP courses the student has. (see link below)

MHS students can only apply to drop an AP course if there are extenuating circumstances and they have contacted the schools they plan to apply to or have applied to and discussed a drop with the admissions counselor. Only then will the MHS guidance counselor consider the drop. Final transcripts are sent to the schools, after graduation, so it is imperative that they are aware of drops in case admissions was based on course loads earlier in the year.

As the college admissions' web site points out and is also the philosophy of AP courses, not getting an A is not an extenuating reason to drop. <http://internationalcollegecounselors.com/college-admissions-advisors-answer-questions-on-rigor-for-high-school-students/>. Beginning with the class of 2020, a weighed and unweighed GPA and class rank will appear on transcripts.

## ACADEMIC HONORS

The highest achievable student honor is Senior Scholar. This allows more students to be recognized at our graduation ceremony and is also a process for recognizing student academic knowledge. We will use a formula for selecting students for top academic honors that has been used in the past to determine Academic All-State candidates. The formula uses a point system that consists of the student's GPA and ACT/SAT score. Because of our Michigan Merit Exam, every student now takes the SAT exam during their junior year and some take the exam more than just their junior year. With either the ACT or SAT score, we will use the test score that gives the student the higher number of points when using the formula. This process is an indicator of students' academic success. If there is a change at the state level for an approved formula, we will adapt to that formula. A class ranking will still be calculated for college purposes.

The following will indicate senior honors with Senior Scholars being the highest honor given. GPA for honor distinctions will be calculated on the unweighed GPA scale.

Senior Scholars	SAT + GPA Point Score
Summa Cum Laude	3.9 and above GPA's
Magna Cum Laude	3.7 – 3.9 GPA's
Cum Laude	3.5 – 3.7 GPA's
Honor Roll	3.0 – 3.5 GPA's

## **CAREER AND COLLEGE READY TESTING AND ASSESSMENTS**

We are building an assessment culture focus. This will help the students focus on an assessment/test as a measure of their learning with a progressive plan to improve their learning. The fall PSAT will serve as a pre-assessment of learning where the spring PSAT will serve as a post-assessment of learning. The student will receive feedback through Kahn Academy to identify academic areas they need to target in their classes and for the SAT and career readiness.

### **DEFINITIONS**

**ACT (American College Test)** - Consists of testing in math, English, science reasoning, reading, and writing. More information can be found at [www.actstudent.org](http://www.actstudent.org).

**SAT (Scholastic Aptitude Test)** - Consists of testing in math, verbal, and writing with an essay option. The newly designed 2016 SAT is based on career and college ready skills and lines up with the Michigan Department of Education's standards.

**Every MHS 11<sup>th</sup> graders will take the SAT in April.**

**PSAT/NMSQT (Preliminary Scholastic Aptitude Test National Merit Qualifications)** - This is the qualifying test for the National Merit Scholarship Program, the United Negro College Fund, and the National Hispanic Recognition Program. It is a shortened version of the SAT. **Every MHS 10<sup>th</sup> grader will take the PSAT/NMSQT in the fall and spring and every 11<sup>th</sup> grade will take the PSAT/NMSQT in the fall.**

**PSAT10** The PSAT10 is a practice SAT exam. It is aligned to the SAT – meaning it has SAT question types including evidence support questions on the reading. Its scores are also reported on the same scale as the SAT. The PSAT10 is designed specifically for sophomores in high school, so **its questions are not as difficult as the PSAT/SMSQT, which is designed for juniors.** It's important to know that the **PSAT 10 does not qualify you for the National Merit competition**, even if you get a really high score.

**PSAT8/9** The PSAT8/9 is the first test in the SAT Suite of Assessments. Designed for eighth and ninth-graders and tightly aligned with the SAT, PSAT/NMSQT, and PSAT10, the PSAT8/9 establishes a baseline for college and career readiness as students enter high school. The PSAT8/9 measures the reading, writing and language, and math skills you need for college and a career. After the test, you'll receive feedback on how ready you are for college along with tools to help you improve.

**Every MHS 9<sup>th</sup> grader will take the PSAT8/9 in the fall and spring.**

**For more information on college testing go to [www.monroe.k12.mi.us/MonroeHS](http://www.monroe.k12.mi.us/MonroeHS) > Parent Resources Link and the Student Services Department Department>Standard Testing Information link.**

### **TIMELINES for COLLEGE READY TESTING**

The Student Services Department staff at Monroe High School is offering the following information concerning college testing as a general guideline for students and parents as they plan test-taking schedules.

The majority of students should fit comfortably within these recommendations, although we do recognize that a small percentage of students will choose to begin the testing process earlier than recommended, such as students attempting to gain entrance into special programs.

#### **10<sup>th</sup> Grade**

**SAT** Should be taken in June for those students trying to gain entrance into special programs, ie. Military academies and ROTC programs, specialized medical programs, etc.

**PSAT/NMSQT** Practice for the 11<sup>th</sup> grade PSAT/NMSQT qualifier which is used in the national merit scholarship program.

**Every MHS 10<sup>th</sup> graders will take this in the fall and spring**

#### **11<sup>th</sup> Grade**

**PSAT/NMSQT** To qualify for SAT scholarship programs, this test must be taken in the fall of the 11<sup>th</sup> grade. **Every MHS 11<sup>th</sup> grader will take the PSAT/NMSQT in the fall.**

**SAT** All juniors take the SAT as part of the Michigan standardized test for graduation. **Every MHS 11<sup>th</sup> grader will take the SAT in the spring.**

#### **12<sup>th</sup> Grade**

**ACT/SAT** By December if you need to raise your scores. The December test date is the latest you should test for qualification for the Michigan Competitive Scholarship Program that is based on financial need. Please check with a guidance counselor as to which test the State of Michigan will be using for this scholarship program.

### **NEW STATE STANDARDIZED TEST FOR ALL 11<sup>TH</sup> GRADERS**

**STUDENTS MUST TAKE THIS TEST TO GRADUATE FROM MONROE HIGH SCHOOL.** The State of Michigan has stated that the new accountability test for Michigan high schools will be the M-Step and SAT. However, this is subject to change.

### **SCHOLARSHIP AND FINANCIAL AID**

Scholarship and financial aid information is available throughout the year from the Student Services Department. Notification of scholarship opportunities will always be advertised through student email and the MHS Facebook page, MHS Scholarship page, and TFT teacher. See your post-secondary planner for further information. Make scholarship searches part of your 9-12 educational development plan. **If you qualify for free or reduced lunch, please apply even if you do not use it. This qualifies you for fee waivers that are required for college applications, AP exams costs, some scholarships and colleg testing fees to name just a few**

## **NCAA (National Collegiate Athletic Association)**

NCAA Clearinghouse/Prospective Collegiate Student Athletes: Any high school student athlete planning to participate in collegiate athletics must be approved through the NCAA Clearinghouse. There are initial eligibility rules that must be met and the student-athlete's transcript must be mailed to the Clearinghouse. Student athletes should register at [www.eligibilitycenter.org](http://www.eligibilitycenter.org). The eligibility centers website contains great information for the college bound student athlete. **Students should work with their student service provider to make certain they are on track with required courses. Note: ACT scores must be sent directly to NCAA from ACT.**

## **NAIA (National Association of Intercollegiate Athletics)**

The NAIA eligibility center registration is required for any student who plans to attend an NAIA school. By registering at [playnaia.org](http://playnaia.org), prospective students have the chance to let NAIA coaches know they're interested in playing in college.

## **DUAL ENROLLMENT/DIRECT COLLEGE**

Students wishing to dual enroll or take direct college classes should discuss the requirements and options for dual enrollment/direct college with their guidance counselor / student services coordinator. For dual enrollment and direct college, students will be enrolled in both the school district and postsecondary institution during the local school district's regular academic year and must be enrolled in a combined total of five classes each trimester. The college course cannot be a hobby, craft or recreation course, or in the subject areas of physical education, theology, divinity, or religious education. Dual enrolled and direct college students that fail their college course will repay the school district the cost of the course. Check with your guidance counselor for full details.

## **IVN (Interactive Video Network) Program**

The Monroe County Intermediate School District (MCISD) Interactive Video Network (IVN) is a shared instruction program implementing new technology in the delivery of educational programming to students. This program allows students to participate in unique and advanced study courses that may not be available in his/her home district via two-way interactive television. Participation in this program is a privilege and subject to special rules and behavioral expectations. Past classes offered over IVN include Beginning and Intermediate Japanese Language and Forensics. Future course offerings depend upon teacher availability and student demand.

## **ONLINE STUDIES**

Monroe Public Schools in cooperation with the Michigan Virtual High School is providing students with an opportunity to extend their learning through the online studies program. Qualifying students may earn up to three high school credits per academic year by successfully completing online advanced placement courses, standard semester courses, and standard trimester courses. Students' final grades will be based on the following scale: 100-90% A; 89-80% B; 79-70% C; 69-60% D; 59% and below E. Courses will be recorded on their transcripts and grades calculated with the cumulative GPA. MVHS course numbers are listed below MHS course numbers. See "Specialized Areas of Study" for non-equivalent courses. For course descriptions go to <https://cems.mivu.org/> and click on MVS Course Catalog.

## **TESTING OUT PROGRAM**

A student may test out of any course offered by our high school. Students must exhibit mastery of course content by attaining a grade of C+ or better on a comprehensive end-of-course examination. Students may also be required to demonstrate mastery through basic assessments used in the class which may include, but are not limited to, portfolios, performance, papers, project and/or presentations.

Credits earned will be based on successful mastery of the required assessment and recorded as "pass". The grade will not be included in the computation of the grade point average. Credit will be accepted as fulfillment of a requirement in a course sequence. Once credit is granted by "testing out", a student may not receive credit for a lower course in that course sequence. Credit toward fulfillment of graduation requirements will be granted for successful achievement of a C+ or better on the end-of-course examination. We will be administering all 2016-2017 "testing out" examinations for courses offered in June, 2016; however, if you wish to test out of a full year course, you must pass the exam for Trimester A & B to obtain full credit. In addition "testing out" for a one trimester course will be given at a date set two weeks before the end of first and second trimester. A sign up date will be set at the start of each trimester and students will be given study materials after the sign up date. Students will be charged a \$10.00 fee per test and refunded upon completion of the test(s). Fees will not be charged to students who qualify for free or reduced lunch.

## **COLLEGE CREDIT THROUGH CAREER TECHNICAL CENTER**

Free college credit opportunities are available in certain CTE programs. The courses that apply are noted at the bottom of the course descriptions. Completion of these courses automatically qualifies students for free credit at local colleges and universities. Complete information can be obtained from the CTE office.

# CAREER PATHWAY, CAREER READY and EDUCATIONAL DEVELOPMENT PLAN

## GENERAL INFORMATION

### **What is a career pathway and career readiness?**

Career pathways are large groups of careers that share similar characteristics and whose employment requirements call for many common interests, strengths and skills. Your chosen career pathway may be modified throughout your time in high school by working with the Student Services Department Staff. By following a career pathway in high school, you will be career ready for job opportunities right out of high school. These job opportunities could become your life's work with future training/education or help provide you with a job that can support you while going to college.

### **Monroe High School Career and College Ready Opportunities**

We lead the county in AP (Advanced Placement) offerings, career and technical courses (CTE) and extra-curricular opportunities.

### **What is an Educational Development Plan (EDP)?**

An Educational Development Plan, or EDP is a blueprint of all the classes that will be taken while attending high school. It will help you focus and plan for your chosen area of interest during high school and into post-secondary education. Your post-secondary planner can help in the selection of challenging courses that will be needed to provide you with the best preparation to be successful in your chosen pathway. Educational development plan work will be completed each year to update career assessment, portfolio, resume, college searches and post-secondary plans.

\* Forms are available at the end of our Curriculum Guide to help in this process.

### **Why do I need to understand career pathways?**

Following a career pathway makes it easier for you to identify career choices among the thousands of different occupations available to you. Career pathways can help you develop a plan to prepare for your chosen career interest area. Your high school courses should be chosen based on your chosen pathway. Decisions concerning the type of continuing education that may be required after high school can also be made based on your career pathway. Examples of continuing education include: Apprenticeships, Two-year college degrees, Four-year college degrees, and trade specific certification programs, (many are offered at the Monroe County Community College).

### **How many pathways are there?**

The State of Michigan has six career pathways and we have added a seventh for students who are undecided and/or prefer to pursue multi-disciplinary studies.

- Arts & Communications
- Business, Management, Marketing and Technology
- Engineering/Manufacturing and Industrial Technology
- Health Sciences
- Human Services
- Natural Resources and Agriscience
- Multi-Disciplinary Studies

### **How do I decide which career pathway is best for me?**

Knowing how your personal interests, abilities and skills match to career pathways can help you begin choosing what fits you best. During your education at Monroe High School, you will have many opportunities to explore and adjust your career pathway. Your post-secondary planner will guide you through "Interest Inventory" activities to determine which careers best suit your abilities and interests.

### **Who can help me understand career pathways?**

Many different people are interested in helping you learn about Michigan's career pathways including teachers, parents and other family members, student service coordinators, post-secondary planners, community members, business leaders and business owners.

### **What is the difference between the technical and professional careers listed under each pathway?**

**Technical:** Students interested in these listed careers will be considering a community college, technical/trade school, or other post secondary training .

**Professional:** Students interested in these listed careers will be considering a four-year college or university program as a requirement for a career level entry.

The career pathway electives recommendations for each area are outlined in the following pages.

More information is available in the Student Service Department.



# Career Pathway Definitions

## Six Career Pathways



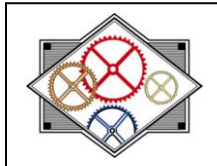
### **Arts & Communications**

Careers related to the humanities, and to the performing, visual, literary, and media arts



### **Business, Management, Marketing & Technology**

Careers related to all aspects of business including accounting, business administration, finance, information processing and marketing



### **Engineering, Manufacturing & Industrial Technology**

Careers related to the technologies necessary to design, build, develop, install, or maintain mechanical systems



### **Health Sciences**

Careers related to the promotion of health as well as the treatment of injuries, conditions, and disease



### **Human Services**

Includes careers in child care, civil service, education, hospitality, and the social services



### **Natural Resources & Agriscience**

Careers related to natural resources, agriculture, and the environment

## Career Pathway: Arts & Communications

**The Basics:**  
Your plan of study during high school includes 15 classes each year. The courses in black are required as a part of the State of Michigan graduation requirements. It's important to choose your electives wisely, as many will help prepare you for greater opportunities in your pathway.

**Online Learning Opportunities:**  
Online Learning Opportunities are an important part of your educational plan. At MHS, we offer many online courses that will extend your learning.

**Extensions:**  
Want more of this pathway? One way to do that is by pushing yourself to take a college course. Not only do college courses provide learning at a deeper level, they save you money in the long run, and count towards a degree. MHS has agreements with the colleges listed below for courses in this pathway.

Freshman	Sophomore	Junior	Senior
English 9 (2)	English 10 (2)	English 11 (2)	English 12 (2)
Algebra 1 (2)	Geometry (2)	Algebra 2 (2)	Senior Math (2)
Biology (2)	Chemistry (2)	Physics (2)	
U.S. History & Geography (2)	Civics/Economics (2)	World History (2)	
World Language (2)	World Language (2)		
Electives (5)	Electives (5)	Electives (7)	Electives (11)
Health (1) & Phys. Ed. (1)			



**Online Learning Opportunity**



- Elective Choices in this Pathway**
- Physical Fitness
  - Intro to Mass Media Communications
  - World Language
  - Music Department
  - Art Foundations, Beginning & Advanced Painting
  - Journalism, Lotus Leaf, Highlighter
  - Digital Photo Shop for Artists

Program of Study	Monroe Community College Monroe, MI Direct College Courses at Monroe High School
English	ENGL 151 (3)
Humanities	HUMAN 151 (3)
Philosophy	PHIL 151 (3)
Communication	SPCH 151 (3)

# Career Pathway: Arts & Communications

## Careers related to:

- ❑ Communications
- ❑ The performing arts
- ❑ Visual, literary and media arts



Elective Choices in this Pathway				
Topic	Course Sequence (Left to Right)			
<b>Instrumental Music</b>	Concert Band Piano 1	Wind Ensemble Orchestra	Jazz Band	
<b>Vocal Music</b>	Mixed Chorus	Concert Choir	MHS Expressions	Generations of Sound
<b>Art</b>	Art Foundations	Drawing, Beginning Painting, Beginning Sculpture	Drawing, Advanced Painting, Advanced	Applied Art for Seniors, Digital Photoshop for Artists
<b>Physical Fitness</b>	Physical Fitness I Aerobics Team Sports	Physical Fitness, Advanced Team Sports, Advanced		
<b>Water Sports</b>	Swimming, Beginning	Swimming, Intermediate	Swimming, Advanced	Diving Water Sports
<b>World Language</b>	French 1 Japanese 1 Spanish 1	French 2 Japanese 2 Spanish 2	French 3 Japanese 3 Spanish 3	French 4 Japanese 4 Spanish 4
<b>Journalism</b>	Journalism	Lotus Leaf Highlighter		



EMERGING OR FAST GROWING OCCUPATIONS	
Designer	Writer
Editor	Public Relations Specialist
Desktop Publisher	Camera Operator/Editor
Actor	Producer
Director	Advertising Sales Agent



ON THE JOB TRAINING (INCLUDING HIGH SCHOOL CTE COURSES)	
SPECIALIZED TRAINING	
Activist	Singer
Actor	Stuntperson
Artist	Tattoo Artist
Bookbinder	Taxidermist
Cartoonist/Comic Illustrator	Upholsterer
Circus Performer	Visual Merchandiser
Comedian	
Composer	
Craftsperson	
Dancer	
Exhibit Designer	
Florist	
Image Consultant	
Magician	
Model	
Motivational Speaker	
Musician	
Photographer	
Photographic Processor	
Picture Framer	
Potter	
Race Car Driver	
Sign Maker	



2-YEAR COLLEGE OR TECHNICAL TRAINING (COMMUNITY COLLEGE)	
Actor	Multimedia Developer
Artist	Musician
Arts Administrator	Photographer
Audio-Visual Technician	Recording Engineer
Broadcast Technician	Set Designer
Cartoonist/Comic Illustrator	Sound Technician
Dance Instructor	Special Effects Tech.
Composer	Video Game Developer
Computer Animator	Website Designer
Costume Designer	
Dancer	
Desktop Publisher	
Disc Jockey	
Drafter	
Fashion Designer	
Film and TV Crew	
Graphic Designer	
Interior Decorator	
Interior Designer	
Interpreter	
Jeweler	
Lighting Technician	
Makeup Artist	
Model Maker	



PROFESSIONAL MAJORS (COLLEGE or UNIVERSITY)	
Acting Instructor	Editor
Actor	Film Editor
Advertising Copywriter	Industrial Designer
Animator	Landscape Architect
Announcer	Medical Illustrator
Archaeologist	Musician
Architect	Photographer
Archivist	Photojournalist
Art/Music Therapist	Print Journalist
Art Dealer	Producer
Art Director	Proofreader
Artist	PR Specialist
Camera Operator	Publisher
Cartographer	Technical Writer
Cartoonist/Comic Illustrator	Translator
Casting Director	Writer
Communications Specialist	
Composer	
Computer Animator	
Conservator	
Critic	
Curator	
Director	
Director of Photography	

## Career Pathway: Business, Management, Marketing, & Technology

**The Basics:**  
Your plan of study during high school includes 15 classes each year. The courses in black are required as a part of the State of Michigan graduation requirements. It's important to choose your electives wisely, as many will help prepare you for greater opportunities in your pathway.

**Online Learning Opportunities:**  
Online Learning Opportunities are an important part of your educational plan. At MHS, we offer many online courses that will extend your learning.

**Extensions:**  
Want more of this pathway? One way to do that is by pushing yourself to take a college course. Not only do college courses provide learning at a deeper level, they save you money in the long run, and count towards a degree. MHS has agreements with the colleges listed below for courses in this pathway.

Freshman	Sophomore	Junior	Senior
English 9 (2)	English 10 (2)	English 11 (2)	English 12 (2)
Algebra 1 (2)	Geometry (2)	Algebra 2 (2)	Senior Math (2)
Biology (2)	Chemistry (2)	Physics (2)	
U.S. History & Geography (2)	Civics/Economics (2)	World History (2)	
World Language (2)	World Language (2)		
Electives (5)	Electives (5)	Electives (7)	Electives (11)
Health (1) & Phys. Ed. (1)			



- Elective Choices in this Pathway**
- Intro to Marketing & Business, Business Law, Small Business Ownership
  - Accounting & Finance 1,2,3
  - Web Page Design
  - Marketing 1,2
  - Business Services & Technology Co-op, Marketing Co-op
  - Office Management 1,2,3
  - Beginning and Advanced Digital Photo Shop

Program of Study	Monroe Comm. College Monroe, MI (Credit)	Ferris State Univ. Big Rapids, MI (Credit)	Henry Ford Comm. College Dearborn MI (Credit)
Accounting/ Finance, Advanced.		ACCT 201 (3)	BSC 110 (4)
Office Management, Advanced	CIS 109 (3) CIS 112 (3) CIS 118 (1) CIS 130 (3) EOS 102 (1)	BUSINESS ELECTIVE (3)	BCA 140 (3) BCA 143 (3) BCA 145 (3) BCA 147 (3)
Marketing/ Small Business Owner		MARKETING ELECTIVE (3)	
Computer Skills	CIS 130 (3) Offered at MHS in the Direct College Program		
Communication	SPCH 151 (3) Offered at MHS in the Direct College Program		



# Career Pathway: Business, Management, Marketing, & Technology

## Careers related to:

- ❑ Accounting
- ❑ Business Administration
- ❑ Finance
- ❑ Information Processing/Technology
- ❑ Marketing
- ❑ Hospitality and Food Service



### EMERGING OR FAST GROWING OCCUPATIONS

Sales Requiring Specialty Skills	Internet Administrator
Purchasing Agent & Buyer	Financial Manager
Website Sales & Development	Software Reviewer
Internet Customer Service Representative	Internet Sales Consulting
Information Technology Auditor	Internet Researcher
Information Technology Project Manager	Financial Services

Elective Choices in this Pathway				
Topic	Course Sequence (Left to Right)			
<b>Marketing</b>	Intro to Marketing & Business	Marketing 1	Marketing 2	Marketing Co-op
<b>Business</b>	Intro to Marketing & Business	Business Law	Small Business	Business Services & Technology Co-op
<b>Accounting &amp; Finance</b>	Accounting & Finance 1	Accounting & Finance 2	Accounting & Finance 3	
<b>Office Management</b>	Office Management 1	Office Management 2	Office Management 3	
<b>Design</b>	Beginning Digital Photo Shop	Web Page Design	Advanced Digital Photo Shop	

### ON THE JOB TRAINING (INCLUDING HIGH SCHOOL CTE COURSES)

#### SPECIALIZED TRAINING

Administrative Assistant	Fashion Retailer
Airline CSA	Flight Attendant
Antique Dealer	Florist
Auctioneer	Hotel Desk Clerk
Audio-Visual Technician	Housekeeper
Automobile Salesperson	Municipal Clerk
Baker	Outdoor Guide
Bank Teller	Pet Groomer
Bartender	Receptionist
Bellhop	Restaurant Manager
Bill and Account Collector	Sales Rep.
Building Superintendent	Shipping Clerk
Bus Driver	Taxi Driver
Butcher	Telemarketer
Cashier, Sales Clerk	Tour Guide
Clothing Manufacturer	Transit Operator
Computer Support Person	Travel Agent
Concierge	Waiter/Waitress
Customer Service Rep.	Wedding Planner
Data Entry Clerk	
Dispatcher	
Entrepreneur	
Event Planner	



### 2-YEAR COLLEGE OR TECHNICAL TRAINING (COMMUNITY COLLEGE)

Assistant Buyer	Loan Officer
Arts Administrator	Mortgage Broker
Association Manager	Multimedia Developer
Audio-Visual Technician	Office Manager
Baker	Property Manager
Bank Teller	Real Estate Agent
Bookkeeper	Recruiter
Career Coach	Renovator
Caterer	Stenographer
Chef	Tax Preparer
Computer Network Specialist	Technical Sales Rep.
Computer Programmer	Title Examiner
Computer Trainer	Video Game Developer
Cook	Volunteer Manager
Cosmetologist	Web Developer
Court Reporter	Webmaster
Credit Counselor	
Customs Broker	
Esthetician	
Hairstylist	
Image Consultant	
Insurance Agent	
Insurance Claims Adjuster	
Legal Secretary	



### PROFESSIONAL MAJORS (COLLEGE or UNIVERSITY)

Account Manager	Investment Adviser
Actuary	Investment Banker
Advertising Account Executive	IT Project Manager
Agent	Landman
Appraiser	Logistics Specialist
Management Consultant	Art Dealer
Manufacturing Manager	Auditor
Market Research Analyst	Bank Manager
Bioinformatics Specialist	Marketing Specialist
Business Systems Analyst	Mathematician
Certified Public Accountant	Media Buyer
Communications Specialist	Money Manager
Computer Programmer	Fundraiser
Construction Manager	GIS Specialist
Economist	Producer
Forensic Accountant	Publisher
Operations Research Analyst	Purchaser
Secondary Education Admin.	Research Analyst
Health Care Administrator	Researcher
Hotel Manager	Retail Buyer
Importer/Exporter	Sports Marketer
I-O Psychologist	Statistician
Information Security Analyst	Trader
Insurance Underwriter	Venture Capitalist

## Career Pathway: Engineering/Manufacturing & Industrial Technology

### The Basics:

Your plan of study during high school includes 15 classes each year. The courses in black are required as a part of the State of Michigan graduation requirements. It's important to choose your electives wisely, as many will help prepare you for greater opportunities in your pathway.

### Online Learning Opportunities:

Online Learning Opportunities are an important part of your educational plan. At MHS, we offer many online courses that will extend your learning.

### Extensions:

Want more of this pathway? One way to do that is by pushing yourself to take a college course. Not only do college courses provide learning at a deeper level, they save you money in the long run, and count towards a degree. MHS has agreements with the colleges listed below for courses in this pathway.

Freshman	Sophomore	Junior	Senior
English 9 (2)	English 10 (2)	English 11 (2)	English 12 (2)
Algebra 1 (2)	Geometry (2)	Algebra 2 (2)	Senior Math (2)
Biology (2)	Chemistry (2)	Physics (2)	
U.S. History & Geography (2)	Civics/Economics (2)	World History (2)	
World Language (2)	World Language (2)		
Electives (5)	Electives (5)	Electives (7)	Electives (11)
Health (1) & Phys. Ed. (1)			

Online Learning Opportunity

**Elective Choices in this Pathway**  
 Intro to Auto Tech., Automotive Fundamentals, Adv. Automotive, Renewable Energy 1,2, Robotics, Adv. Robotics & Programming  
 Drafting & Design Fundamentals, Adv. Arch. Drafting  
 Computer Aided Design (CAD), Advanced CAD, 3D Modeling  
 Trade & Industry Co-op  
 Engineering Design  
 Construction Fundamentals, Advanced Construction  
 Home Repair & Remodeling  
 Welding Fundamentals, Advanced Welding  
 Intro to Metals & Machine Tool Technology  
 Machine Tooling Fundamentals, Machine Tooling – Adv. Principals;  
 Adv. Applications; CNC Operations

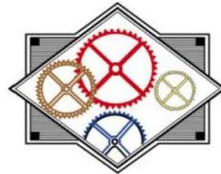
Program of Study	Monroe Comm. College Monroe, MI (Credit)	Ferris State Univ. Big Rapids, MI (Credit)	Henry Ford Comm. College Dearborn MI (Credit)	Northwestern Univ. Lima, OH (Credit)
Auto Tech, Adv.	AUTO 102 (4)	AUTO 111 (4) AUTO 112 (4) AUTO 113 (4) AUTO 114 (4) AUTO 115 (4)	AUTO 101 (4)	AUO22 (6) AU127 (6) HV101 (6)
Drafting/ CAD, Adv.	MDTC 160 (4)	CDTD 111 (6) CDTD 112 (6)	ACT 110 (3) DRAF 110 (3) DRAF 120 (3)	
Construction Trades, Adv.	CONM 101 (3)	BCTM 213 (3)	ACT 124 (4)	
Electro – Mechanical Technology	ELEC 125 (3) ELEC 132 (4) ELEC 135 (4)	EEET 111 (1) EEET 114 (4) EEET 115 (3) EEET 122 (4)	ELEC 103 (4) ELEC 106 (3)	
Machine Tool Technology, Adv.	MECH 103 (4) MECH 104 (4) MECH 131 (4)	MFGT 113 (1) MFGT 114 (2)	MPS 140 (4) MPS 120 (4)	
Welding Technology, Advanced	WELD 102 (6) WELD 110 (2)	WELD 113 (4)		



# Career Pathway: Engineering/Manufacturing & Industrial Technology

## Careers related to:

- ❑ Engineering and Related Areas
- ❑ Mechanics & Repairers
- ❑ Manufacturing Technology
- ❑ Precision Production
- ❑ Electronics & Robotics
- ❑ Construction Trades and Related Industries



EMERGING OR FAST GROWING OCCUPATIONS	
Environmental Engineer	Landscape Architect
Sheet Metal Workers	Semiconductor Processors
Air Cargo Handling Supervisors	Airfield Operations Specialists
Security Installers	Machinist
Tool & Die Maker	CNC Specialist: Milling, Turning
CNC Programmer	Mechanical Engineer
Industrial Engineer	Tooling Engineer

Elective Choices in this Pathway				
Topic	Course Sequence (Left to Right)			Trade & Industry Co-op
Auto	Intro to Auto Technology	Automotive Fundamentals	Adv. Automotive	
Energy	Renewable Energy 1	Renewable Energy 2		
Robotics	Robotics	Adv. Robotics & Programming		
Drafting	Drafting & Design Fundamentals	Adv. Arch. Drafting		
CAD	Computer Aided Design (CAD)	Advanced CAD	3D Modeling	
Misc.	Engineering Design	Adv. Applications	CNC Operations	
Construction	Home Repair & Remodeling	Construction Fundamentals	Advanced Construction	
Welding	Welding Fundamentals	Advanced Welding		
Metals	Intro to Metals & Machine Tool Technology	Machine Tooling Fundamentals	Machine Tooling Adv. Principles	



ON THE JOB TRAINING (INCLUDING HIGH SCHOOL CTE COURSES)	
SPECIALIZED TRAINING	
Airport Ground Crew	Electronics Assembler
Appliance Repairer	Electronics Repairer
Auto Detailer	Explosives Specialist
Autobody Repairer	Flooring Installer
Automobile Assembler	Furniture Finisher
Automotive Painter	Glazier
Automotive Recycler	Gunsmith
Heavy Equipment Operator	Bicycle Mechanic
Bookbinder	Insulator
Bricklayer	Inventor
Building Superintendent	Ironworker
Bus Driver	Lineworker
Cabinetmaker	Locksmith
Cable Installer and Repairer	Machine Operator
Carpet and Upholstery Cleaner	Model Maker
Chimney Sweep	Oil & Gas Well Drilling
Combat Engineer	Optical Lab Technician
Concrete Mason	Painter
Construction Laborer	Parts Person
Custodian	Plasterer
Demolition Expert	Printing Press Operator
Dry Cleaner	Roofer
Small Engine Mechanic	Drywall



2-YEAR COLLEGE OR TECHNICAL TRAINING (COMMUNITY COLLEGE)	
Aircraft Mechanic	Heating Technician
Automotive Service Technician	Air Conditioning Tech
Avionics Tech	Refrigeration Tech
Blacksmith	Heavy Equipment Tech
Boilermaker	Helicopter Pilot
Broadcast Technician	Home Inspector
Building Inspector	Carpenter
Industrial Engineering Tech	Drafter
Chemical Engineering Tech	Logistics Specialist
Civil Engineering Tech	Machinist
Mechanical Engineering Tech	Commercial Diver
Construction Manager	Millwright
Construction Tradesperson	Motorcycle Mechanic
Cost Estimator	Pilot
Petroleum Engineer Tech	Crane Operator
Diesel Technician	Pipefitter
Industrial Machinery Mechanic	Pipelayer
Electrical Engineering Tech	Plumber
Electrician	Power Plant Operator
Elevator Installer & Repairer	Quality Controller
Energy Auditor	Sheet Metal Worker
Engineering Tech	Solar Energy Tech
Farm Equipment Technician	Tool & Die Maker
GIS Specialist	Welder



PROFESSIONAL MAJORS (COLLEGE or UNIVERSITY)	
Aerospace Engineer	Nuclear Engineer
Agricultural Engineer	Toxicologist
Architect	
Astronaut	
Biomedical Engineer	
Brewmaster	
Chemical Engineer	
Chemist	
Civil Engineer	
Computer Hardware Engineer	
Computer Scientist	
Computer Software Engineer	
Electrical Engineer	
Environmental Consultant	
Environmental Engineer	
Food Scientist	
Industrial Engineer	
Land Surveyor	
Manufacturing Manager	
Materials Engineer	
Metallurgical Engineer	
Mathematician	
Mechanical Engineer	
Mining Engineer	

## Career Pathway: Health Sciences

### The Basics:

Your plan of study during high school includes 15 classes each year. The courses in black are required as a part of the State of Michigan graduation requirements. It's important to choose your electives wisely, as many will help prepare you for greater opportunities in your pathway.

### Online Learning Opportunities:

Online Learning Opportunities are an important part of your educational plan. At MHS, we offer many online courses that will extend your learning.

### Extensions:

Want more of this pathway? One way to do that is by pushing yourself to take a college course. Not only do college courses provide learning at a deeper level, they save you money in the long run, and count towards a degree. MHS has agreements with the colleges listed below for courses in this pathway.

Freshman	Sophomore	Junior	Senior
English 9 (2)	English 10 (2)	English 11 (2)	English 12 (2)
Algebra 1 (2)	Geometry (2)	Algebra 2 (2)	Senior Math (2)
Biology (2)	Chemistry (2)	Physics (2)	
U.S. History & Geography (2)	Civics/Economics (2)	World History (2)	
World Language (2)	World Language (2)		
Electives (5)	Electives (5)	Electives (7)	Electives (11)
Health (1) & Phys. Ed. (1)			



**Online Learning Opportunity**



Monroe Community College Monroe, MI			
Direct College Courses at Monroe High School			
Psychology	PSYCH 151 (3)		
Communication	SPCH 151 (3)		
Sociology	SOC 151 (3)		
Health Occupation Cluster/ Certified Nursing Assistant	MCCC Monroe, MI (Credits)	Ferris State Univ. Big Rapids, MI (Credits)	Henry Ford Community College Dearborn, MI (Credits)
	HLTSC 100 (2)	MRIS 102 (1) CCHS 102 (1)	HCS 103 (1) HCS 124 (1)

### Elective Choices in this Pathway

- Parenting
- Psychology
- Health Occupations, Health Occupations Cluster
- Certified Nursing Assistant
- Medical Terminology
- Sociology
- Anatomy and Physiology
- Forensic Science, IVN
- Health Co-op

## Career Pathway: Health Sciences

Careers related to the promotion of health as well as to the promotion of health as well as the treatment of injuries, conditions and disease:

- Dentistry
- Medicine
- Nursing
- Therapy and/or Rehabilitation
- Diet and Nutrition
- Physical Fitness



### EMERGING OR FAST GROWING OCCUPATIONS

Pharmacists	Chiropractors
Physician Assistants	Veterinarians
Biomedical Engineers	Medical/Health Service Manager
Paramedic	Physical/Occupational Therapist
Biological/Medical Scientist	Registered Nurse
Sonographer-Diagnostic	Nuclear Medicine Technologists
Medical Technicians	Dental Assistants

Elective Choices in this Pathway					
Topic	Course Sequence (Left to Right)				
Family and Consumer Science	Parenting				
Psychology	Psychology	Advanced Psychology			
Sociology	Sociology				
Science Electives	Forensic Science	Anatomy and Physiology	AP Biology AP Chemistry AP Physics	Ecology	AP Environmental Science
Health Occupations	Health Occupations A Health Occupations B	Medical Terminology	Health Occupations Cluster	Certified Nursing Assistant	Health Sciences Co-op



### ON THE JOB TRAINING (INCLUDING HIGH SCHOOL CTE COURSES) SPECIALIZED TRAINING

Hospital Service Worker  
Medical Secretary  
Medical Transcriptionist  
Personal Care Aide  
Pharmacy Technician  
Phlebotomist



### 2-YEAR COLLEGE OR TECHNICAL TRAINING (COMMUNITY COLLEGE)

Cardiovascular Tech  
Cytotechnologist  
Dental Assistant  
Dental Hygienist  
Dental Lab Tech  
Diagnostic Medical Sonographer  
Electroneurodiagnostic Tech  
Health Records Professional  
Licensed Practical Nurse  
Massage Therapist  
Medical Assistant  
Medical Imaging Tech  
Medical Lab Tech  
Mental Health Nurse  
Nuclear Medicine Technologist  
Nursing Assistant  
Optician  
Paramedic  
Podiatrist  
Psychiatric Aide  
Public Health Nurse  
Surgical Technologist  
Veterinary Technician



### PROFESSIONAL MAJORS (COLLEGE or UNIVERSITY)

Acupuncturist	Kinesiologist
Allergist	Midwife
Anesthesiologist	Naturopath
Art/Music Therapist	Neurologist
Athletic Trainer	Nurse
Audiologist	Nurse Anesthetist
Biochemist	Psychiatrist
Bioethicist	Ob/Gyn
Bioinformatics Specialist	Occupational Therapist
Biomedical Engineer	Oncologist
Biotechnologist	Ophthalmologist
Cardiologist	Optometrist
Chiropractor	Orthodontist
Coroner	Orthopedic Surgeon
Dentist	Pathologist
Dermatologist	Pediatrician
Dietitian	Psychologist
Doctor	Pharmacist
Epidemiologist	Pharmacologist
Veterinarian	Physical Therapist
Genetic Counselor	Physician Assistant
Geneticist	PE Teacher
Health Care Administrator	Surgeon



## Career Pathway: Human Services

**The Basics:**  
Your plan of study during high school includes 15 classes each year. The courses in black are required as a part of the State of Michigan graduation requirements. It's important to choose your electives wisely, as many will help prepare you for greater opportunities in your pathway.

**Online Learning Opportunities:**  
Online Learning Opportunities are an important part of your educational plan. At MHS, we offer many online courses that will extend your learning.

**Extensions:**  
Want more of this pathway? One way to do that is by pushing yourself to take a college course. Not only do college courses provide learning at a deeper level, they save you money in the long run, and count towards a degree. MHS has agreements with the colleges listed below for courses in this pathway.

Freshman	Sophomore	Junior	Senior
English 9 (2)	English 10 (2)	English 11 (2)	English 12 (2)
Algebra 1 (2)	Geometry (2)	Algebra 2 (2)	Senior Math (2)
Biology (2)	Chemistry (2)	Physics (2)	
U.S. History & Geography (2)	Civics/Economics (2)	World History (2)	
World Language (2)	World Language (2)		
Electives (5)	Electives (5)	Electives (7)	Electives (11)
Health (1) & Phys. Ed. (1)			



- Elective Choices in this Pathway**
- World Language
  - Psychology, Adv. Psychology
  - Sociology
  - Office Management 1, 2
  - Web Page Design
  - Parenting, Family Living
  - Fashion Design Program

Program of Study	Monroe Community College Monroe, MI Direct College Courses at Monroe High School
Political Science	POLSC 151 (3)
Anthropology	ANTHR 152 (3)
Psychology	PSYCH 151 (3)
Communication	SPCH 151 (3)
Sociology	SOC 151 (3)

# Career Pathway: Human Services

## Careers related to:

- ❑ Child and Family Services
- ❑ Civil Service
- ❑ Education
- ❑ Hospitality
- ❑ Social Services
- ❑ Law Enforcement and Legal Education
- ❑ Religion and Related Careers



Elective Choices in this Pathway				
Topic	Course Sequence (Left to Right)			
<b>Sociology</b>	Sociology			
<b>Psychology</b>	Psychology	Advanced Psychology		
<b>Office Management</b>	Office Management 1	Office Management 2		
<b>World Language</b>	French 1	French 2	French 3	French 4
	Japanese 1	Japanese 2	Japanese 3	Japanese 4
	Spanish 1	Spanish 2	Spanish 3	Spanish 4
<b>Family and Consumer Sciences</b>	Family Living	Parenting	Preparing for the Real World	Positive Peer Influence
<b>Fashion Design</b>	Introduction to Fashion Design	Garment Making	Fashion Design & Merchandizing	Textile Art (Quilting)
<b>Misc.</b>	Web Page Design			



EMERGING OR FAST GROWING OCCUPATIONS	
Audiologist	Speech-Language Therapist
Teachers-Postsecondary	Instructional Coordinators
Counselors	Teachers-Special Education
Police/Private Detectives	Probation/Correctional Officers
Paralegal	Social Workers
Personal Aides	Fitness Workers
Interpreters	Massage Therapists



ON THE JOB TRAINING (INCLUDING HIGH SCHOOL CTE COURSES)	
SPECIALIZED TRAINING	
Activist	Parking Officer
Animal Trainer	Pet Groomer
Coach	Postal Clerk
Coast Guard	Private Investigator
Combat Engineer	Security Guard
Community Worker	Sports Instructor
Courier/Messenger	Sports Official
Court Clerk	Tailor/Dressmaker
Driver License Examiner	Teacher Assistant
Driving Instructor	Telephone Operator
Transportation Inspector	Dry Cleaner
Armed Forces	Waste Collector
Hospital Service Worker	
Humanitarian Aid Worker	
Infantry	
Lifeguard	
Mail Carrier	
Martial Arts Instructor	
Motivational Speaker	
Mover	
Nanny	
National Guard	
Outdoor Guide	



2-YEAR COLLEGE OR TECHNICAL TRAINING (COMMUNITY COLLEGE)	
Animal Services Worker	Mediator
Bailiff	Mental Health Nurse
Building Inspector	Nail Technician
Career Coach	Paralegal
Dance Instructor	Park Ranger
Computer Support Person	Personal Trainer
Computer Trainer	Physical Therapy Asst.
Conservation Officer	Police Officer
Correctional Officer	Psychiatric Aide
Cosmetologist	Recreation Director
Court Reporter	Religious Worker
Credit Counselor	Esthetician
Diving Instructor	Title Examiner
Sign Language Interpreter	Translator
Explosives Specialist	
Firefighter	
Fitness Instructor	
Forest Firefighter	
Funeral Director	
Gerontologist	
Human Resources Specialist	
Interpreter	
Legal Secretary	
Library Technician	



PROFESSIONAL MAJORS (COLLEGE or UNIVERSITY)	
Abuse/Crisis Counselor	Federal Agent
Acting Instructor	Fire Investigator
Addictions Counselor	Foreign Service Officer
School Counselor	Genetic Counselor
Recreation Therapist	Researcher
Anthropologist	Historian
Archaeologist	Industrial Hygienist
Sociologist	I-O Psychologist
Bioethicist	Judge
Career Counselor	Lawyer
Civil Litigator	Librarian
Clergy	Lobbyist
Corporate/Commercial Lawyer	Marriage Therapist
Corporate Trainer	School Superintendent
Crime Scene Investigator	Planner
Criminal Lawyer	Political Aide
Criminologist	Politician
Detective	Principal
Early Childhood Educator	Probation Officer
Economic Development Officer	Professional Athlete
Teacher	Professor
Environmental Health Inspector	Psychiatrist
Social Worker	Psychologist
Family and Consumer Scientist	Public Policy Analyst

## Natural Resources & Agriscience

### The Basics:

Your plan of study during high school includes 15 classes each year. The courses in black are required as a part of the State of Michigan graduation requirements. It's important to choose your electives wisely, as many will help prepare you for greater opportunities in your pathway.

### Online Learning Opportunities:

Online Learning Opportunities are an important part of your educational plan. At MHS, we offer many online courses that will extend your learning.

### Extensions:

Want more of this pathway? One way to do that is by pushing yourself to take a college course. Not only do college courses provide learning at a deeper level, they save you money in the long run, and count towards a degree. MHS has agreements with the colleges listed below for courses in this pathway.

Freshman	Sophomore	Junior	Senior
English 9 (2)	English 10 (2)	English 11 (2)	English 12 (2)
Algebra 1 (2)	Geometry (2)	Algebra 2 (2)	Senior Math (2)
Biology (2)	Chemistry (2)	Physics (2)	
U.S. History & Geography (2)	Civics/ Economics (2)	World History (2)	
World Language (2)	World Language (2)		
Electives (5)	Electives (5)	Electives (7)	Electives (11)
Health (1) & Phys. Ed. (1)			



Online Learning Opportunity



Program of Study	Monroe Comm. College Monroe, MI (Credit)
Astronomy	ASTRN 151 (4) Offered at MHS in the Direct College Program.
Communications	SPCH 151 (3) Offered at MHS in the Direct College Program.

**Elective Choices in this Pathway**  
Science Electives  
World Languages



# Natural Resources & Agriscience

## Careers related to:

- Natural Resources
- Agriculture
- Environment



### EMERGING OR FAST GROWING OCCUPATIONS

Environmental Scientists                      Geoscientists  
 Landscapers                                      Pest Control Workers  
 Animal Care Workers

### Elective Choices in this Pathway

Topic	Course Sequence (Left to Right)			
<b>Science</b>	Forensic Science	Anatomy & Physiology Ecology	AP Biology AP Chemistry AP Physics	AP Environmental
<b>World Languages</b>	French 1 Spanish 1 Japanese 1	French 2 Spanish 2 Japanese 2	French 3 Spanish 3 Japanese 3, 4	French 4 Spanish 4

### ON THE JOB TRAINING (INCLUDING HIGH SCHOOL CTE COURSES) SPECIALIZED TRAINING

Animal Caretaker  
 Animal Services Worker  
 Animal Trainer  
 Aquaculturist  
 Beekeeper  
 Fisher  
 Fruit & Vegetable Grower  
 Gardener  
 Horse Trainer  
 Landscaper  
 Miner (Underground)  
 Nursery Grower  
 Pest Controller  
 Roustabout  
 Leasehand  
 Taxidermist  
 Tree Harvester



### 2-YEAR COLLEGE OR TECHNICAL TRAINING (COMMUNITY COLLEGE)

Arborist  
 Biological Tech  
 Conservation Officer  
 Environmental Technician  
 Farm Equipment Technician  
 Farmer  
 Food Inspector  
 Forest Firefighter  
 Forestry Technician  
 Horticulturist  
 Oil & Gas Well Drilling Crew  
 Park Warden/Ranger  
 Petroleum Engineering Tech  
 Solar Energy Tech  
 Surface Driller  
 Veterinary Technician  
 Water Treatment Plant Operator  
 Water Well Driller  
 Wildlife Technician  
 Zookeeper



### PROFESSIONAL MAJORS (COLLEGE or UNIVERSITY)

Agricultural Engineer                      Oceanographer  
 Agronomist                                      Paleontologist  
 Animal Breeder                                Petroleum Engineer  
 Astronomer                                      Physicist  
 Biochemist                                        Scientist  
 Biologist    Toxicologist  
 Biotechnologist                                Veterinarian  
 Botanist    Winemaker  
 Ecologist    Zoologist

Environmental Consultant  
 Food Scientist  
 Forensic Scientist  
 Forester  
 Geneticist  
 Geologist  
 Hydrologist/Hydrogeologist  
 Landman  
 Landscape Architect  
 Marine Biologist  
 Mathematician  
 Meteorologist  
 Microbiologist  
 Mining Engineer

## Career Pathway: Multi-Disciplinary Studies

### The Basics:

Your plan of study during high school includes 15 classes each year. The courses in black are required as a part of the State of Michigan graduation requirements. It's important to choose your electives wisely, as many will help prepare you for greater opportunities in your pathway.

### Online Learning Opportunities:

Online Learning Opportunities are an important part of your educational plan. At MHS, we offer many online courses that will extend your learning.

### Extensions:

Don't know what pathway you want to take a college course in, but know that you want to challenge yourself? One way to do that is by taking a direct college course at MHS. Not only do these general studies college courses provide learning at a deeper level, they save you money in the long run, and count towards a degree.

Freshman	Sophomore	Junior	Senior
English 9 (2)	English 10 (2)	English 11 (2)	English 12 (2)
Algebra 1 (2)	Geometry (2)	Algebra 2 (2)	Senior Math (2)
Biology (2)	Chemistry (2)	Physics (2)	
U.S. History & Geography (2)	Civics/Economics (2)	World History (2)	
World Language (2)	World Language (2)		
Electives (5)	Electives (5)	Electives (7)	Electives (11)
Health (1) & Phys. Ed. (1)			



**Online Learning Opportunity**



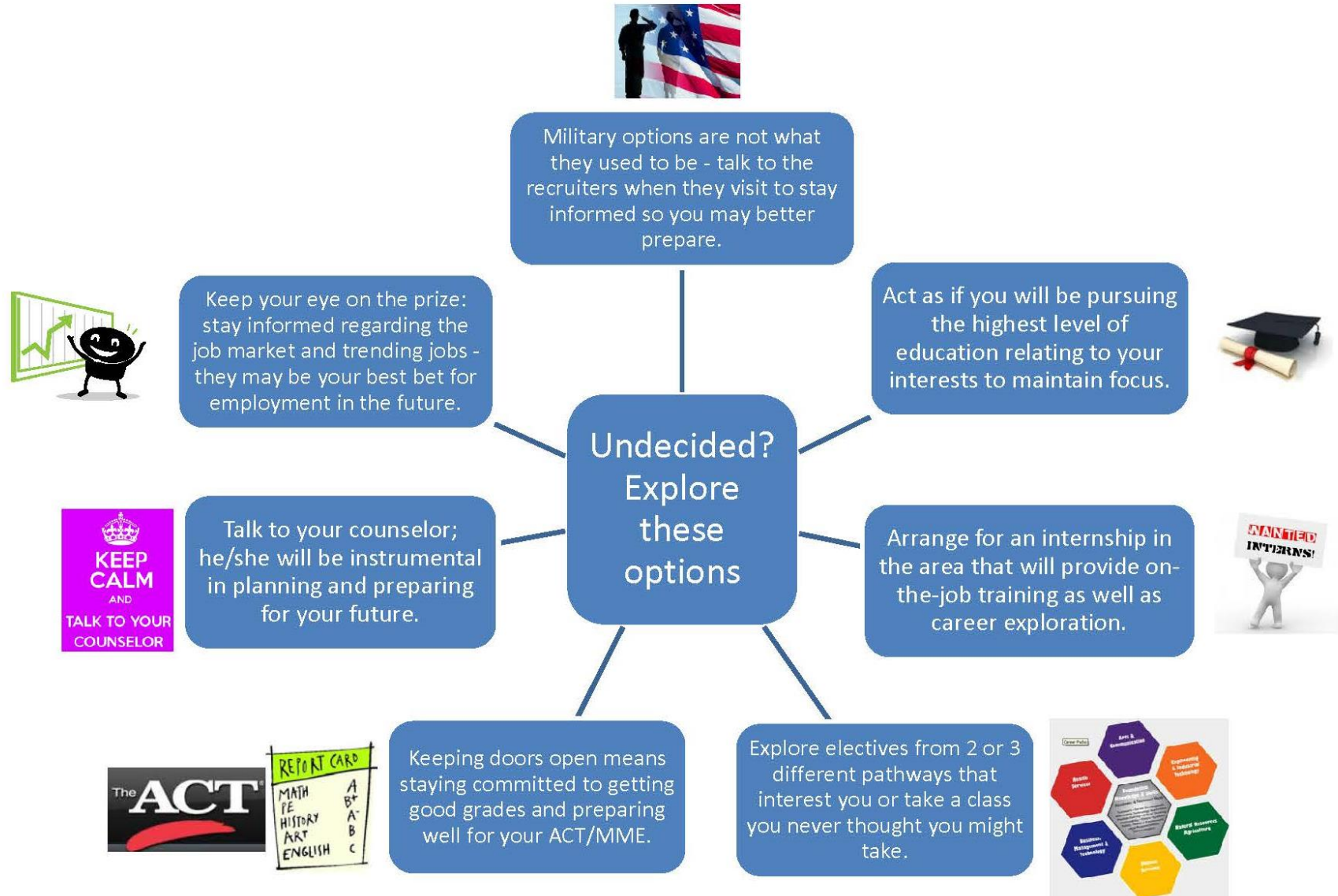
**Elective Choices in this Pathway**

The skies the limit when it comes to elective choices in this pathway. What's most important is that you follow YOUR interests and talents (not your friends), challenge yourself, and work hard.

Program of Study	Monroe Community College Monroe, MI Direct College Courses at Monroe High School
Psychology	PSYCH 151 (3)
Communications	SPCH 151 (3)
Sociology	SOC 151 (3)
Humanities	HUMAN 151 (3)
Mathematics	MATH 151 (4)
Philosophy	PHIL 151 (3)
Political Science	POLSC 151 (3)
English	ENGL 151 (3)
Anthropology	ANTHR 152 (3)
Astronomy	ASTRN 151 (4)
Computers	CIS 130 (3)

## Career Pathway: Multi-Disciplinary Studies

Undecided on a specific pathway? It's ok, your high school career should still be about one thing: **CREATING OPPORTUNITY**. Your path may not be as specific, but your focus on creating opportunities for yourself should be as strong as your peers who are following a specific pathway.



## Direct College Offerings

**What is direct college?** Direct college credit courses provide students with the opportunity to take college level courses at high school and are generally taught by college faculty. Courses can count for high school credit and/or college credit. Direct college credit courses are college courses offered at the high school, however the college tuition fees are paid for by the Monroe Public School District. Direct college classes are offered to 9<sup>th</sup> – 12<sup>th</sup> grade students, provided they earn a qualifying score.

**A student may take up to 10 direct college courses during their high school career.**

**First year of enrolment for 9<sup>th</sup>/10<sup>th</sup> – Students may take up to two direct college classes.**

**First year of enrollment for 11<sup>th</sup>/12<sup>th</sup> – Students may take up to six direct college classes.**

\*\*\*Direct college courses are rigorous courses taught at a college level. Students MAY NOT drop direct college classes after the first day of the course. Any students who fail a direct college course MUST repay the Monroe Public School District for any fees (tuition, lab fees, etc...) incurred by the district. Direct college courses may or may not transfer to other colleges and universities for credit. Students should contact the university or visit the Michigan Transfer Network online to inquire about credit transfer.

### Direct College Course Offerings

**ENGL151 English Composition I 3 Credit Hours**

*Prerequisite: ENGL 090 and RDG 090 or qualifying scores on the ACT/SAT/PSAT or MCCC qualifying test.*

This is the core course in English composition. It covers primarily expository writing, grammar, analysis and punctuation. Emphasis is placed on structure, style and appropriate usage. This course transfers to most four-year colleges and universities as the introductory writing course. Students will produce and edit a variety of written documents.

**ENGL 152 English Composition II 3 Credit Hours**

*Prerequisite: ENGL 151*

The emphasis of this course is on research and writing the research paper. Writings include topics taken from a variety of selected readings. The course is a continuation of English 151.

**HIST103 20<sup>TH</sup> Century World History & Civilizations 3 Credit Hours**

*Prerequisite: RDG 090 and ENGL 090 or qualifying scores on the ACT/SAT/PSAT or MCCC qualifying test.*

This course provides the necessary background to understand today's chief global occurrences, especially interactions between the industrial world and developing world cultures. This course examines developments in art, science, technology, economics, politics, and religion. Completing this course provides students with the ability to identify the most important individuals and ideologies of history since the 20<sup>th</sup> century and discuss the causes and effects of the era's most important events. Students will have a better understanding of nationalism, imperialism, militarism, globalization, ideological and cultural development, and the causes and effects of wars and violence worldwide.



## Direct College Offerings

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### Direct College Course Offerings

#### **HUMAN151 Introduction to Humanities**

**3 Credit Hours**

*Prerequisite: ENGL 090 and RDG 090 or qualifying scores on the ACT/SAT/PSAT or MCCC qualifying test.*

This course is a survey of the humanities that focuses on painting, poetry, drama and music with emphasis placed on what the humanities tell us about human values. Extra cost may be incurred for field trips. Schedules may have to be adjusted because of field trips, which may be on weekends.

#### **POLSC151 Introduction to Political Science**

**3 Credit Hours**

*Prerequisite: RDG 090 and ENGL 090 or qualifying scores on the ACT/SAT/PSAT or MCCC qualifying test.*

Students in this course learn about American political institutions, policy formulation, diverse political groups and key issues. Students will also gain a foundation for responsible citizenship. The instructors for this course give emphasis to the federal level of government with a critical look at contemporary problems in American democracy.

#### **CIS130 Introduction to Computer Science**

**3 Credit Hours**

*Prerequisite: RDG 090 and ENGL 090 or qualifying scores on the ACT/SAT/PSAT or MCCC qualifying test.*

This course provides students with basic knowledge of computer information systems and includes both computer concepts and hands-on use of various computer applications. Computer concepts include computer system basics of hardware, software, files and data storage. The hands-on portion consists of using the operating system, spreadsheets, word processing, databases, presentation software, e-mail and the Internet.

## Direct College Offerings

**What is direct college?** Direct college credit courses provide students with the opportunity to take college level courses at high school and are generally taught by college faculty. Courses can count for high school credit and/or college credit. Direct college credit courses are really college courses offered at the high school, however the college tuition fees are paid for by the Monroe Public School District. Direct college classes are offered to 9<sup>th</sup> – 12<sup>th</sup> grade students, provided they earn a qualifying score.

\*\*\*Direct college courses are rigorous courses taught at a college level. Students MAY NOT drop direct college classes after the first day of the course. Any students who fail a direct college course MUST repay the Monroe Public School District for any fees (tuition, lab fees, etc...) incurred by the district. Direct college courses may or may not transfer to other colleges and universities for credit. Students should contact the university or visit the Michigan Transfer Network online to inquire about credit transfer.

### Direct College Course Offerings

#### **PSYCH151 General Psychology**

**3 Credit Hours**

*Prerequisite: ENGL 090, RDG 090, and MATH 092 or MATH 150 or higher or qualifying score on COMPASS or on the ACT/SAT/PSAT or MCCC qualifying test.*

Subject matter begins with an introduction to the major models of human behavior along with appropriate research methodology, including applied statistics. The operational framework is then applied to the following topics: physiological processes, sensation, perception, learning, motivation, emotion, stress, development [life span], personality, adjustment, mental health and therapeutic techniques, personal growth and social processes. Useful information regarding “real life” application is emphasized throughout the course. It is assumed that in the majority of cases this may be the only psychology course the student will experience; as the field of psychology has shifted from theory-based to fact-based, it appears both desirable and possible to expose students to useful information for everyday living while providing comprehensive coverage of the current major concepts, exploratory models and research procedures inherent in an introductory psychology course.

#### **SOC151 Principles of Sociology**

**3 Credit Hours**

*Prerequisite: RDG 090 and ENGL 090 or qualifying score on COMPASS or on the ACT/SAT/PSAT or MCCC qualifying test.*

This course introduces the concepts of culture, socialization, social structure, social stratification, racial and ethnic relations and deviancy. These topics are used principally to examine life in contemporary United States. Whereas psychology focuses on individual behavior, sociology focuses on behavior that results from membership within and between groups.

#### **SPCH151 Communication Fundamentals**

**3 Credit Hours**

*Prerequisite: RDG 090 and ENGL 090 or qualifying scores on COMPASS or on the ACT/SAT/PSAT or MCCC qualifying test.*

This course is designed to acquaint the student with the principles of the communication process: intrapersonal, interpersonal and public. It is a broad-based approach to aid the student in becoming a more effective communicator. Each student will present formal speeches to inform, persuade and demonstrate and be expected to participate in class discussions.



**Courses counting for Visual, Performing or Applied Arts**  
**Graduation Requirement Credit 2017-2018**


Applied Arts for Seniors	MHS Expressions
Art Foundations	Concert Choir
Digital Photoshop for Artists	Marketing 1
Beginning Drawing	Beginning Digital Photoshop
Advanced Drawing	Advanced Photoshop
Beginning Painting	Web Page Design
Advanced Painting	Automotive Tech Fundamentals
Sculpture	Home Repair and Remodeling
Visual Arts Portfolio Development 1	Construction Fundamentals
Visual Arts Portfolio Development 2	Drafting and Design Fundamentals
Finance and Accounting 1	Engineering and Design
Office Management 1, 2, 3	Mixed Chorus
Renewable Energy 1, 2	Piano 1, 2
Metals and Machine Tool	Concert Band
Technology, Intro	Jazz Band
Machine Tooling Fundamentals	Orchestra
Welding Fundamentals	Wind Ensemble
Family Living	AP Biology
Introduction to Fashion Design	AP Calculus
Health Occupations 1, 2	AP Statistics
Generations of Sound	AP Chemistry

# MONROE HIGH SCHOOL ART DEPARTMENT

## Arts and Communications Career Pathway




All courses in the MHS Art Department are designed to emphasize the students' creative potential. All courses are open to students who wish to expand their artistic horizons in specific or general areas. It is recommended that each student who has had little or no previous art experience take Art Foundations before engaging in other areas. This will give students a fundamental background in the various art forms and help them make more informed choices for greater success in other art courses.

 A course that is accompanied by this symbol meets the graduation requirements outlined by the Michigan Merit Curriculum (MMC). In addition, all courses in the MHS Art Department meet the Visual Performing Applied Arts (VPAA) graduation requirements outlined by the Michigan Merit Curriculum (MMC).

### **APPLIED ART FOR SENIORS** – One Trimester/.5 Credit


**Grade: 12**  
**100105**

 *Visual, Performing and Applied Arts (VPAA)*

This is a hands-on, functional and decorative art course for seniors with a focus on art related careers. This course will include model making, jewelry making, print making and various other applied arts. Exploration of the elements and principles of design, self-expression, creative thinking, problem finding and solving will be emphasized. This course emphasizes the transformation of a student's world view in that the student is required to take the classroom learning, apply to real world situations, and create a new solution. No previous art training is necessary prior to taking this class. All **seniors** are welcome.

### **ART FOUNDATIONS** – One Trimester/.5 Credit


**Grades: 9-12**  
**100015**

 *Visual, Performing and Applied Arts (VPAA)*

Art Foundations is a good starting point for students in any pathway interested in the arts, and is recommended for students pursuing the Arts and Communications pathway. Students in this course will be exposed to many different mediums. Projects will incorporate the study of art history, aesthetics, and art criticism. Students will develop a sense of good composition by learning the elements and principles of design. They will study perspective, color theory, and basic drawing skills.


### **DIGITAL PHOTO SHOP FOR ARTISTS** – One Trimester/.5 credit

**Grades: 10-12**  
**100115**

 *Visual, Performing and Applied Arts (VPAA)*

**PREREQUISITE:** Beginning Digital Photo Shop (found under “BUSINESS, MANAGEMENT, MARKETING & INFORMATION TECHNOLOGY”—Note that the *Internet & Computer Applications* prerequisite for *Beginning Digital Photo Shop* is not necessary if Beginning Digital Photo Shop is being taken as a prerequisite for Digital Photo Shop for Artists.)


In this advanced course, students will learn how to apply Photoshop technology with the aesthetic appeal required in professional careers. Students will build upon the Photoshop techniques they learned in Beginning Digital Photo Shop, while also building drawing skills, employing the elements and principles of design, and learning to develop aesthetically pleasing compositions. Students must have received at least a “C” trimester grade in Beginning Digital Photo Shop to take this course.

**DRAWING, BEGINNING** – One Trimester/.5 Credit**Grades: 9-12** *Visual, Performing and Applied Arts (VPAA)***100065**


This class is designed to help students build an awareness of realistic drawing techniques and processes, and develop beginning drawing skills. There will be a brief overview of the elements and principles of design. The students will be exposed to whole brain thinking and the creative thinking process. There will be an emphasis on drawing subject matter accurately. Students will begin a collection of drawings for their portfolio. This course will prepare students for higher level art courses.

**DRAWING, ADVANCED** – One Trimester/.5 Credit**Grades: 10-12**


(PREREQUISITE: Beginning Drawing)

**100075** *Visual, Performing and Applied Arts (VPAA)*


This course will continue to explore the elements of drawing with an emphasis on figure and form. Students will be encouraged to sharpen their realistic drawing skills. This course will encourage creative problem solving and critical thinking. Students will work with and explore a variety of drawing media. Students must have received at least a “C” trimester grade in Beginning Drawing to take this course.

**PAINTING, BEGINNING** – One Trimester/.5 Credit**Grades: 9-12** *Visual, Performing and Applied Arts (VPAA)***100085**


Part of this class will focus on both opaque and transparent watercolor painting techniques. The students will be encouraged to experiment using many different approaches, both with subject matter and media. The other portions of the class will be spent learning to paint with acrylic paint. A wide variety of subject matter will be explored to help you to create exciting paintings. Basic drawing skill and the elements and principles of design will be introduced. Creative thinking and problem solving will be the thinking skills that are emphasized throughout the course.

**PAINTING, ADVANCED** – One Trimester/.5 Credit**Grades: 10-12** *Visual, Performing and Applied Arts (VPAA)***100095**

This class is an extension of Beginning Painting, with a concentration on the student’s area of interest. Further exploration of composition, elements and principles of design, self expression, creative thinking, problem finding and solving will be emphasized. Students must have received at least a “C” trimester grade in Beginning Painting to take this course.

**SCULPTURE** – One Trimester/.5 Credit**Grades: 9-12** *Visual, Performing and Applied Arts (VPAA)***100035**

Students will develop basic 3D building techniques. This class will explore sculptural construction techniques. Construction techniques will include papier mache, wire, wood, cardboard and more. The students will be able to demonstrate an understanding of the elements and principles of design. Creative thinking and problem finding and solving will be the thinking skills that are emphasized throughout the course.

**VISUAL ARTS PORTFOLIO DEVELOPMENT 1** – 1.5 Credits Possible**Grades: 11-12** *Visual, Performing and Applied Arts (VPAA)***Trimester 1---100001**


(Prerequisite: Teacher Approval)

**Trimester 2---100002**

This course is for the serious self-motivated student who intends to pursue studies in art or related fields. The student should have completed several art courses to pursue this course of study. The student should have a general understanding of how to apply the elements and principles of design in their artwork. The student will be expected to develop a series of pieces for a college art portfolio and to compete in at least one art competition. The student will also be expected to prepare a slide presentation of their personal work and complete a college admission essay.

**Trimester 3---100003**

**ADVANCED PLACEMENT ART - 1.5 Credits Possible**


 *Visual, Performing and Applied Arts (VPAA)*

(1<sup>st</sup> and 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional)

AP Art option available. Please discuss with your art instructor.

**Grades: 11-12**  
**Trimester 1---111001**  
**Trimester 2---111002**  
**Trimester 3---111003**

**VISUAL ARTS PORTFOLIO DEVELOPMENT 2 – 1.5 Credits Possible**

 *Visual, Performing and Applied Arts (VPAA)*

(Prerequisite: Visual Arts Portfolio Development 1)


This course is for the serious self-motivated student who intends to pursue studies in art or related fields. The student should have a clear understanding of how to apply the elements and principles of design in their artwork. The student will be expected to continue to develop a series of pieces for a college art portfolio and to compete in at least one art competition. The student will have the opportunity to improve the slide presentation and college admission essay. Students must have received at least a “C” trimester grade in Visual Arts Portfolio Development to take this course.

**Grade: 12**  
**Trimester 1---100011**  
**Trimester 2---100012**  
**Trimester 3---100013**

## **Online Learning – Michigan Virtual University**

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.


**ART APPRECIATION – One Trimester/.5 Credit**

 *Visual, Performing and Applied Arts (VPAA)*

The visual arts realm is a vast area which spans all other areas of lifelong learning. Everything we see and do evolves from something that a person has designed. In order to fully appreciate and gain an understanding of what makes for a good design, it is important to study art history, perform a critique to study the elements and principles of design, discuss aesthetics, and perform art production. This course will offer an intriguing look at what all encompasses a work of art whether a painting, a building or a movie.

**Grades: 9-12**  
**MVUAA**

**IN SEARCH OF CYRANO – One Trimester/.5 Credit**

 *Visual, Performing and Applied Arts (VPAA)*

He’s known as one of the world’s greatest lovers, but he never gets the girl. His words can melt a woman’s heart, but his face will make her turn away. He fights for honor, King and country, but when love comes for him, he hides. Who is this man of many faces who bears the titles friend, poet, soldier, critic, swordsman and lover? He’s Cyrano de Bergerac and his story unfolds here. In Search of Cyrano is a foundational course satisfying one-half credit of the Visual, Performing and Applied Arts graduation requirement. Students will be exposed to the artistic/creative process through exploration of the new opera, Cyrano. Operatic, musical and theatrical concepts will be demonstrated as students observe how this story is communicated through this visual and performing medium. Students will be enticed to analyze how all the different theatrical elements contribute to the telling of this tragic story (music, lighting, costumes, and the set). Students will be prompted to reflect how the similarities of the emotional journey experienced by Cyrano often parallel those experienced by teenagers of today. The culminating project will require students to create a short mini-opera or music video incorporating the production elements learned in class.

**Grades: 9-12**  
**MVUISOC**




## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **AP ART HISTORY (Semester 1) – One Semester/.5 Credit**

**Grades: 9-12|**


 *Visual, Performing and Applied Arts (VPAA)*

**MVUAPAH1**

This course is the first semester of a two-semester sequence and is aligned to the Advanced Placement curriculum for Art History. Students will examine major forms of artistic expression from the past and present and from a variety of cultures and will learn to look at these works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. Schools must supply a proctor for the midterm and final exam. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP ART HISTORY (Semester 2) – One Semester/.5 Credit**

**Grades: 9-12**

 *Visual, Performing and Applied Arts (VPAA)*

**MVUAPAH2**

This course is the second semester of a two-semester sequence and is aligned to the Advanced Placement curriculum for Art History. Students will examine major forms of artistic expression from the past and present and from a variety of cultures and will learn to look at these works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. Schools must supply a proctor for the midterm and final exam. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exam.

**MONROE HIGH SCHOOL BUSINESS, MANAGEMENT, MARKETING &  
INFORMATION TECHNOLOGY DEPARTMENT**  
**Business, Management, Marketing & Technology Career Pathway**



The program offerings in the Business Management, and Marketing Education Department develop essential skills for students to be career ready, advanced technical training, and/or college degrees. Each course that is part of a larger program sequence will be listed together with program completer information included.

- ***FREE COLLEGE CREDIT opportunities that apply will be noted at the bottom of the course description. Completion of these courses automatically qualifies students for credit at local colleges. Completer information can be obtained from the CTE Office at 734-265-3450.***



A course that is accompanied by this symbol meets the Graduation Requirements outlined by the Michigan Merit Curriculum (MMC).

**INTRODUCTION TO BUSINESS, MARKETING, AND TECHNOLOGY – One Trimester/.5 Credit**



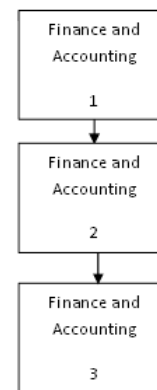
*On-Line Experience*

**Grades: 9-12  
110015**

This one-trimester introductory course is designed to acquaint the student with functions performed by business and the role business and marketing activities play in the economy as a whole. It will also help to improve students understanding of our economy and business operations, and help students prepare to make decisions as consumers, wage earners, and citizens. Topics to be covered will include business operations, economics, management, international business, finance, and credit. This course will also cover information regarding marketing strategies using the internet. Students will use word processing, spreadsheets, presentation application software, and web page development software. Safety issues involved in the use of equipment and internet use precautions and guidelines while online will also be covered. This course will provide the online hours required by the state of Michigan.

**FINANCE AND ACCOUNTING PROGRAM**

Finance and Accounting



**FINANCE and ACCOUNTING 1 – One Trimester/.5 Credit**



*Visual, Performing and Applied Arts (VPAA)*



*Fourth Year Math Elective, if enrolled as a Senior*

**Grades:9-12  
110025**


This course is the first part (1 of 3) of the Finance and Accounting program series. The basic accounting equation will be addressed with early emphasis on the increase/decrease and debit/credit concept. Students will learn the entire accounting cycle first for sole proprietorship. Students are provided with the opportunity to join BPA (Business Professionals of America) and participate in regional, state, and national events that focus on the material learned in this class.

**FINANCE and ACCOUNTING 2** – One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Finance & Accounting 1)*

**110035**

 *Fourth Year Math Elective, if enrolled as a Senior*

This course is the second part (2 of 3) of the Finance and Accounting program series. Students will continue their learning in the accounting cycle for a merchandising corporation . A minimum of one automated practice set will be employed as a project-based experience. Students continue to be encouraged to join BPA (Business Professionals of America) and participate in regional, state, and national events that focus on the material learned in this class. In addition, students are eligible for placement in the Business Services and Technology Co-op program.


**(\*Free College Credit Agreements are in place that award College Credit after program completion\*)**

**FINANCE and ACCOUNTING 3** – One Trimester/.5 Credit

**Grades: 10-12**

*(PREREQUISITE: Finance & Accounting 2)*

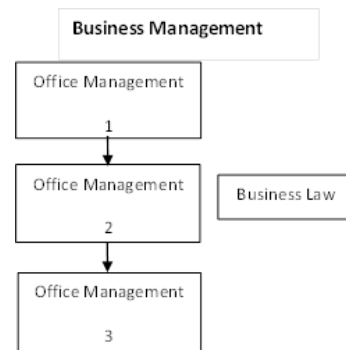
**110045**

 *Fourth Year Math Elective, if enrolled as a Senior*

This course is the third part (3 of 3) of the Finance and Accounting program series. We are now part of a Global Economy! Accountants can provide their services to clients around the world from a single location (even from home). Completing the Advanced Accounting program can help launch a profitable career! This course will cover departmentalized accounting, a voucher system, inventory planning and valuation, accounting for uncollectible accounts, general accounting adjustments, corporate accounting, management accounting, and manufacturing cost accounting. Students will also use automated simulations. In addition, students are eligible for placement in the Business Services and Technology Co-op program.

**(\*Free College Credit Agreements are in place that award College Credit after program completion\*)**

**BUSINESS MANAGEMENT PROGRAM**




**OFFICE MANAGEMENT 1** – One Trimesters/.5 Credit



**Grades: 9-12**

 *On-Line Experience*



**110145**

 *Visual, Performing and Applied Arts (VPAA)*

This course is the first part (1 of 3) of the Office Management program series. Students who have good computer skills and are looking to increase their knowledge, use, and productivity will want this class. Students will learn skills that colleges and business corporations expect in their employees. Using Microsoft Office 2016, students will begin with refresher training and proceed through more advanced technical and professional preparation in Microsoft Word, Excel, Access, PowerPoint, Publisher, and Outlook. Upon completion of this class, students may pursue their MOS (Microsoft Office) Certification. Business practices and employability skills are integrated into this course. This course meets the Co-op class requirement. Students are encouraged to be a member and compete using their skills in our Business Professionals of America (BPA) chapter, the State-recognized student business organization.

**OFFICE MANAGEMENT 2 – One Trimester/.5 Credit****Grades:9-12***(PREREQUISITE: Office Management 1)***110155** *On-Line Experience* *Visual, Performing and Applied Arts (VPAA)*

This course is the second part (2 of 3) of the Office Management program series. Business practices and employability skills are integrated into this course as students continue working on computer skills through simulations using Microsoft 2016 Word, Excel, Access, PowerPoint, Publisher, and Outlook. Management and supervisory level skills will be emphasized as students continue on their career path.. Students may pursue their MOS (Microsoft Office) Certification. Business Professionals of America (BPA) activities are also an important aspect of this course, students are encouraged to become a member of BPA.

**OFFICE MANAGEMENT 3 – One Trimesters/.5 Credit Grades: 10-12****110165***(PREREQUISITE: Office Management 2)* *On-Line Experience* *Visual, Performing and Applied Arts (VPAA)*

This course is the third part (3 of 3) of the Office Management program series. Students will continue to perfect skills that colleges and business corporations expect in their employees. The latest in Microsoft Office 2016 will be used, business best-practices and employability skills are enforced to ensure students are prepared to a valuable asset in any business environment. Upon completion of this class, students may pursue their MOS (Microsoft Office) Certification. This course meets the Co-op class requirement. Students are encouraged to be a member and compete using their skills in our Business Professionals of America (BPA) chapter, the State-recognized student business organization.

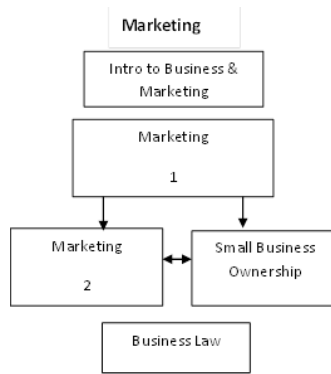
**(\*Free College Credit Agreements are in place that award College Credit after program completion\*)****BUSINESS LAW – One Trimester/.5 Credit****Grades: 9-12****110195**

This course is for the business student or the student seeking a career in the field of law. Basic principles of law are reviewed and business law is learned as it affects American consumers, workers, and citizens in their daily lives. Topics covered will include ethics, criminal law, contracts, agency, bailment, renting, leasing and transfer of property. Students will also have an opportunity to become certified in financial literacy. The student will gain an understanding of one's legal rights, privileges, and responsibilities.

**BUSINESS SERVICES & TECHNOLOGY CO-OP –****Grades: 11-12**Three Trimesters/1.5 Credits (1 period) or 3 Credits (2 periods) *See Co-op Coordinator***110110***(PREREQUISITE: Currently enrolled in or completed a related Business Services and Technology (BST) class and co-op coordinator approval.)*

BST Co-op is a coordinated work experience program in office and accounting related fields. The co-op coordinator places the student in a work experience that is close to his/her occupational interest and goal. Students are released from school to attend work and are supervised and graded by their employer and their co-op coordinator.

## MARKETING PROGRAM




### **INTRODUCTION TO BUSINESS AND MARKETING – One Trimester/.5 Credit**

**Grades: 9-12  
110015**

This one-term introductory course is designed to acquaint the student with functions performed by business and the role business and marketing activities play in the economy as a whole. It will also help to improve student understanding of our economy and business operations, and help students prepare to make decisions as consumers, wage earners, and citizens. Topics to be covered will include business operations, economics, management, international business, finance, and credit. This course will also cover information regarding marketing strategies using the internet.

### **MARKETING 1 – One Trimester/.5 Credit**

**Grades: 9-12  
110275**

 *Visual, Performing and Applied Arts (VPAA)*

This course is the first part (1 of 3) of the Marketing program series. The subject matter of this class includes: Distributive Education Clubs of America (DECA, an Association of Marketing Students) activities, Career Development, Marketing and Business Fundamentals, Selling Techniques, Risk Management, Marketing Concepts, human relations/communications, and business related field trips. Students in this course may have the opportunity to study retail sales and participate in running the MHS School Store. Upon completing this class, a student should be able to secure continuing employment in a field related to marketing and distribution. Students can join DECA (an Association of Marketing Students) and participate in district, state, and national events that focus on the material learned in this or any Marketing class.

### **MARKETING 2 – One Trimester/.5 Credit**

**Grades: 9-12  
110285**

*(PREREQUISITE: Marketing 1)*

This course is the second part (2 of 3) of the Marketing program series. The subject matter of this course includes: DECA activities, Advanced Marketing Techniques, Financing, Distribution, Selling, Pricing, Promotion, Advertising, Produce/Service Management, Marketing-Information Management, and business related field trips. DECA projects and competitions are essential. Students in this course will have the opportunity to study retail sales and participate in running the MHS School Store. Upon completion of this course, a student should feel comfortable advancing into the lower levels of management in the areas of management or continuing at the college level in the areas of marketing and business administration. Students will continue with DECA (an Association of Marketing Students) and participate in district, state, and national events that focus on the material learned in this or any Marketing class.

**(\*Free College Credit Agreements are in place that award College Credit after program completion\*)**

### **SMALL BUSINESS OWNERSHIP – One Trimester/.5 Credit**

**Grades: 9-12  
110175**

*(PREREQUISITE: Marketing 2)*

**(\*Free College Credit Agreements are in place that award College Credit after program completion\*)**

This course is the third part (3 of 3) of the Marketing program series. Characteristics of American business and its environment are studied. Subject areas include: business ownership, marketing, purchasing, production finance, management functions, and some job seeking skills. Students will do projects related to business. This is a good preparatory class for the college-bound business administration program or for those entering the business field upon graduation. Students in this course will also have the opportunity to study retail sales and



participate in running the MHS School Store. Students are provided the opportunity to join DECA (an Association of Marketing Students) and participate in district, state, and national events that focus on the material learned in this class.

## MARKETING CO-OP

**Grades: 11-12**  
**110200**

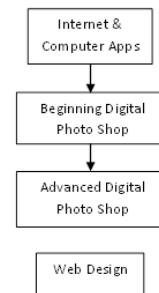
Three Trimesters/1.5 Credits (1 period) or 3 Credits (2 periods) *See Co-op Coordinator*

*(PREREQUISITE: Currently enrolled in or completed a related Marketing class and co-op coordinator approval.)*

Marketing Co-op is a coordinated work experience program in retail related fields. The co-op coordinator places the student in a work experience that is close to his/her occupational interest and goal. Students are released from school to attend work and are supervised and graded by their employer and their co-op coordinator. Students may continue with DECA (An Association of Marketing Students) and participate in district, state, and national events that focus on the material learned in this or any Marketing class.


## DIGITAL-MULTIMEDIA DESIGN PROGRAM

Digital/Multimedia Design



**DIGITAL PHOTO SHOP, BEGINNING** – One Trimester/.5 credit  
*(PREREQUISITE: Internet & Computer Applications, preferred)*


**Grades: 9-12**  
**110055**

 *Visual, Performing and Applied Arts (VPAA)*

This course is the second part (1 of 3) of the Digital-Multimedia Design program series. In this course, students will learn the basics in the field of the Digital Multimedia through the use of digital photography editing. Students will use digital photo editing to create fine and commercial graphic art projects and promotional advertising. Students will learn basic lay-out and design elements used in the digital multimedia field of employment. Elements and principles of design and composition are covered while students are learning the basics needed to create various digital graphic design assignments.

**DIGITAL PHOTO SHOP, ADVANCED** – One Trimester/.5 credit  
*(PREREQUISITE: Beginning Digital Photo Shop)*


**Grades: 10-12**  
**110065**

 *Visual, Performing and Applied Arts (VPAA)*

This course is the third part (2 of 3) of the Digital-Multimedia Design program series. This advanced course includes further instruction on digital multimedia and computer graphic arts. Students will gain a deeper understanding of digital photo editing and graphic layout techniques. The elements and principles of design will be emphasized along with creative and critical thinking skills. This course builds upon the skills covered in the prerequisite class, and allows students to advance through project based learning centering on student interests.

**WEB PAGE DESIGN** – One Trimester/.5 Credit  
*(PREREQUISITE: Beginning Digital Photo Shop)*

**Grades: 10-12**  
**110215**

 *Visual, Performing and Applied Arts (VPAA)*

This course is the fourth part (3 of 3) of the Digital-Multimedia Design program series. This course will introduce students to web page development techniques and practices. Software for this course includes Adobe Dreamweaver, Flash, and Fireworks. The students will create a final site, based on client specifications. Web Page design and development will enhance each student's ability to be an active member of today's internet-based society.

**(\*Free College Credit Agreements are in place that award College Credit after program completion\*)**

## **COMPUTER PROGRAMMING 1 – One Trimester / .5 Credit**

**Grades: 9-12**



*Visual, Performing and Applied Arts (VPAA)*

**110182**

According to the Bureau of Labor and Statistics, by 2020, 60% of all STEM jobs are coding and 30% of all jobs requiring a bachelor degree are in coding. Computer Programming jobs are needed in all industries: fashion, agriculture, banking, sports, entertainment and so many more. What are you passionate about? There are coding jobs for that. This course will focus on industry-standard language (C++ and Java). After that, students will be prepared to start exploring programming related topics such as: game development, website development, and mobile app development. Students taking this course should be detail-oriented and good at math. Students will gain experience troubleshooting programming errors and writing code to fix them. Our goal is to prepare students to go on to college and earn degrees in computer science and also be prepared to work in the programming industry of their choice. There are many programming competitions for Business Professionals of America (BPA) members. Please consider joining this club to enhance your programming experience!

## **COMPUTER PROGRAMMING 2 – One Trimester / .5 Credit**

**Grades: 10-12**



*Visual, Performing and Applied Arts (VPAA)*

**110183**

*(PREREQUISITE: Computer Programming 1)*


A continuation of the Computer Programming 1 class, important data structures and algorithms will be covered. The course builds on a strong foundation of structured programming. It is the language used to develop most operating systems and commercial microcomputer software. Learning to program computers develops the student's ability to solve problems of all kinds, and will show them how to break a problem into manageable parts and to think in logical and creative ways.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **ACCOUNTING A** - One Trimester/.5 Credit

**Grades: 9-12**

 *Fourth Year Math Elective, if enrolled as a Senior*


**MVUACCA**

This is the first course in a two-semester Accounting course sequence.

Accounting A is a skill-level course that is of value to all students, whether exploring a career in business or for personal financial needs. Accounting A is an essential course for students who are pursuing a strong background in business, marketing and management. This course covers the complete accounting cycle for a proprietorship, along with journalizing and posting transactions.

### **ACCOUNTING B** - One Trimester/.5 Credit

**Grades: 9-12**

 *Fourth Year Math Elective, if enrolled as a Senior*

**MVUACCB**

*(PREREQUISITE: Accounting A)*

This is the second course in a two-semester Accounting course sequence.

This course is a continuation of Accounting A. In Accounting B, students will expand their knowledge of accounting procedures by working within the structure of a corporation. Competency will be exhibited in completing payroll taxes and reports, special journals and other financial statements.

### **BUSINESS ETHICS** – One Trimester/.5 Credit

**Grades: 9-12**

**MVUBE**

Think about the last difficult decision you made. Was there more than one direction to take? Businesses, as well as individuals, are faced with making the right decisions every day. Business Ethics explores and identifies ethical behavior and what goes into making the right decision. Students will establish a written code of ethics that can serve as framework for both business and individual decision making. Ethical decision making is a skill that will serve students in every aspect of their lives.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

**ENTREPRENEUR BUSINESS MANAGEMENT** - One Trimester/.5 Credit

**Grades: 9-12**

**MVUEBM**

Entrepreneur Business Management is a business course for high school students to familiarize themselves with a day in the life of a business owner. In this course, students will become familiar with introductory concepts of decision making and managing a business, fair hiring practices and gain decision-making skills. Students will also gain an understanding of what entrepreneurs need know to survive the day-to-day operations of their business.

**ENTREPRENEUR BUSINESS PLANNING** – One Trimester/.5 Credit

**Grades: 9-12**

**MVUEBP**

Ever wonder what it takes to own your own business, be your own boss and write your own paycheck? Entrepreneurship helps students examine their readiness and passion for such an undertaking. Students will develop an innovative idea, conduct a feasibility analysis, identify their primary customer, and write a business plan. They will also learn how to network with other professionals to launch their own business. The final step will be developing their strategic plan for the future to help bring their entrepreneurial dreams to reality.

**MICROSOFT OFFICE 2007** – One Trimester/.5 Credit

**Grades: 9-12**

**MVUMO7**

Microsoft Word is one of the most-widely used programs in the world today. In this introductory course, students will learn the basics of using the Microsoft Office 2007 programs: Word, Excel, Access, PowerPoint, Outlook Mail and Publisher. The documents produced will be useful for school, personal and work applications. Students will become familiar with the ribbon layout of the software interface and create professional documents, while accomplishing everyday tasks in Office 2007.

**DIGITAL IMAGING AND COMMUNICATION** – One Trimester/.5 Credit

**Grades: 9-12**

**MVUDIAC**

In this course, students will learn techniques for the composition and editing of digital images. Using free, online photo-editing software, students practice different methods of communication using photographs and graphics, as well as graphical text. Practical application of graphical text, layering, color, design, composition, filtering, masking, hue and saturation are covered in the various projects presented to the student. Emphasis on multiple methods of communication, including accurate and grammatically correct written communication is presented. Students build a portfolio of work based on the concepts learned in the course, and explore various methods and options for presentation of their portfolio.

**INTRO TO COMPUTER PROGRAMMING I: VISUAL BASIC.NET**

**Grades: 9-12**

(*PREREQUISITE:* Knowledge of computer fundamentals.) One Trimester/.5 Credit

**MVUITCP**

This course presents basic programming and teaches the essential concepts of VisualBasic.net (VB.NET). As an introduction to VB.NET, students will see the basic uses of the programming language, its similarities to the English language (and others), and its flexibility as a programming language. The course helps participants understand the processes involved in software development and object-oriented programming. This is an introductory course that could lead to careers such as software engineer, developer, or game designer. The course participants will also complete a series of hands-on projects covering built in data types, operators, control structures, classes, and objects.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **INTRO TO COMPUTER PROGRAMMING II: JAVA PROGRAMMING** **Grades: 9-12**

*(PREREQUISITE:* This course assumes the student has had some prior programming experience.) **MVUITCP2**

This introductory-level course presents the understanding of JAVA and how to build a stand-alone application (such as a countdown clock or leap year indicator). This course is designed for first-time learners who have very little programming background except that introduced in Programming I: VB.NET. The student will also learn the techniques of JAVA, how JAVA can be used in cross-platform programming, and the robustness of the JAVA program. At the end of the course students will be able to write basic programs using JAVA and could pursue further instruction in any programming language.

### **WEB DESIGN BASICS HTML** One Trimester/.5 Credit

**Grades: 9-12**

**MVUWDBH**

Web Design Basics HTML introduces students to basic web page design techniques and how to create web pages that are appropriate for the perspective audiences. Through the use of HTML, students learn to alter text and background colors, change text and image page alignment, create internal and external hyperlinks, and embed video and audio files into their web pages.

### **GAME DESIGN** One Trimester/.5 Credit

**Grades: 9-12**

**MVUGD**

This course is for students who love gaming and want to design and build original games from scratch. Participants learn how to use popular game development software to create two-dimensional engaging, interactive games in a variety of styles. Increasingly challenging hands-on projects teach students the essential elements of successful game development. Students will also have the opportunity to explore careers in video game design. They will continue to use the different workshops to learn about and use additional features in the games they create using the Multimedia Fusion 2 game design software they will download.



**MONROE HIGH SCHOOL ENGINEERING, MANUFACTURING  
and INDUSTRIAL TECHNOLOGY DEPARTMENT**  
**Engineering, Manufacturing and Industrial Career Pathway**



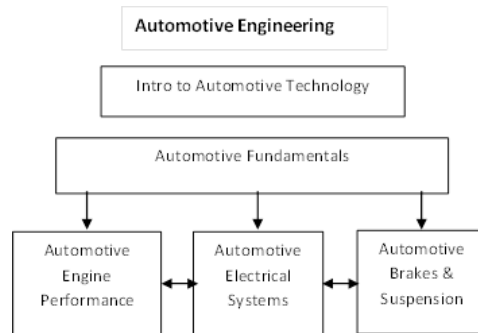
The Engineering/Manufacturing and Industrial Technology (EMIT) Department offer a variety of courses in the Trades, Engineering, and Technical Education fields. Basic courses are offered to give students a general background and preparation for advanced courses in Industrial Technology and/or Career & Technical Education. Students enrolled in these courses will develop employable skills which will prepare them for successful career entry, apprenticeship, trade school, or entry into a college or university engineering program. Each course that is part of a larger program sequence will be listed together with program complete information included.

- ***FREE COLLEGE CREDIT opportunities that apply will be noted at the bottom of the course description. Completion of these courses automatically qualifies students for credit at local colleges. Complete information can be obtained from the CTE Office at 734-265-3450.***



A course that is accompanied by this symbol meets the Graduation Requirements outlined by the Michigan Merit Curriculum (MMC).

**AUTOMOTIVE ENGINEERING PROGRAM**



**AUTOMOTIVE TECHNOLOGY, INTRODUCTION TO** – One Trimester/.5 Credit

**Grades: 9-10**



*Visual, Performing and Applied Arts (VPAA)*


**120195**

This course is designed to allow the exploration of the Automotive Repair Industry. This class is suggested but not a mandatory prerequisite for all students who intend to enroll in Automotive Technology or are interested in learning how a modern automobile works. During the course, students will study basic engine construction and operation, engine operational support systems and be introduced to automotive electricity and electronics. In addition, basic vehicle preventative maintenance techniques will also be covered. Small engine theory, operations, and maintenance will be studied and students will have the opportunity to participate in hands-on lab activities.

## **AUTOMOTIVE TECHNOLOGY FUNDAMENTALS –**

One Trimester/1 Credit/2 Periods (*Dbl Block*)

**Grades: 10-12**  
**120205**

 *Visual, Performing and Applied Arts (VPAA)*

This course is a part (1 of 4) of the Advanced Automotive Technology (NATEF approved) program series. This course is designed for the student interested in a career in the automotive service industry. The course is structured to provide comprehensive instruction in the theory of operation, diagnosis and service of the following automotive systems.

- Mechanical and Thermal Dynamics
- Lubrication Systems
- Cooling Systems
- Engine Design and Operation
- Electrical Systems
- Ignition Systems
- Fuel Systems
- Emission Systems
- Computer Controlled Vehicle Systems

Students will also be introduced to suspension and braking systems. MHS has implemented a National Skills Standards Automotive Technology Program that meets NATEF (National Automotive Technicians Education Foundation) standards. This will better prepare our program completers for ASE Technician Certification.

## **AUTOMOTIVE TECHNOLOGY, ENGINE PERFORMANCE –**

One Trimester (Fall ONLY)/1 Credit/2 Periods (*Dbl Block*)

**Grades: 10-12**  
**120011**

*(PREREQUISITE: Automotive Technology Fundamentals)*

*Fourth year math elective, if enrolled as a senior*

This course is the third part (2 of 4) of the Advanced Automotive Technology (NATEF approved) program series. This course section is designed to prepare students for Automotive Service Certification (A.S.E.) or continuing education in the field of automotive engineering, design and development. The course is structured to provide advanced instruction and training opportunities in the following areas.

- Engine Diagnostic Systems and Equipment
- Engine and Power Train Control Systems
- Engine Design Modification Techniques
- Automotive Air Conditioning and Climate-Control Systems

The theory of operation, testing and diagnostic procedures, as well as industry standard service techniques, will be part of the instructional process. This course includes the use of advanced level/industry standard diagnostic equipment. MHS has implemented a National Skills Standards Automotive Technology Program that meets NATEF (National Automotive Technicians Education Foundation Standards).

## **AUTOMOTIVE TECHNOLOGY, ELECTRICAL SYSTEMS –**

 *Fourth Year Math Elective, if enrolled as a Senior*

**Grades: 10-12**  
**120012**

One Trimester (Winter ONLY)/1 Credit/2 Periods (*Dbl Block*)

*(PREREQUISITE: Automotive Engine Performance, Teacher Interview)*

*Fourth year math elective, if enrolled as a senior*

This course is the fourth part (3 of 4) of the Advanced Automotive Technology (NATEF approved) program series. This course section is designed to prepare students for Automotive Service Certification (A.S.E.) or continuing education in the field of automotive engineering, design and development. The course is structured to provide advanced instruction and training opportunities in the following areas.

- Vehicle Electrical Systems
- Alternative Power Sources
- Automotive Air Conditioning and Climate-Control Systems
- Computer Diagnostics

The theory of operation, testing and diagnostic procedures, as well as industry standard service techniques, will be part of the instructional process. This course includes the use of advanced level/industry standard diagnostic equipment. MHS has implemented a National Skills Standards Automotive Technology Program that meets NATEF (National Automotive Technicians Education Foundation Standards).

**AUTOMOTIVE TECHNOLOGY, BRAKES AND SUSPENSION –**

**Grades: 10-12**

 **Fourth Year Math Elective, if enrolled as a Senior**

**120013**

One Trimester (Spring ONLY)/1 Credit/2 Periods (*Dbl Block*)

(*PREREQUISITE: Automotive Electrical Systems, Teacher Interview*)

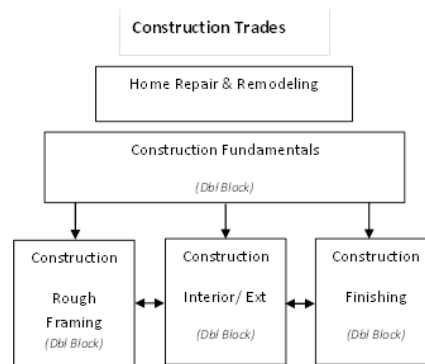
*Fourth year math elective, if enrolled as a senior*

This course is the final part (4 of 4) of the Advanced Automotive Technology (NATEF approved) program series. This course section is designed to prepare students for Automotive Service Certification (A.S.E.) or continuing education in the field of automotive engineering, design and development. The course is structured to provide advanced instruction and training opportunities in the following areas.

- A.B.S. Braking Systems
- Computer Controlled Steering and Suspension Systems
- Vehicle Design Characteristics

The theory of operation, testing and diagnostic procedures, as well as industry standard service techniques, will be part of the instructional process. This course includes the use of advanced level/industry standard diagnostic equipment. MHS has implemented a National Skills Standards Automotive Technology Program that meets NATEF (National Automotive Technicians Education Foundation Standards).


(\*Free College Credit Agreements are in place that award College Credit after program completion\*)



**CONSTRUCTION TRADES PROGRAM**

**HOME REPAIR & REMODELING – One Trimester/.5 Credit**

**Grades: 9-10**


 *Visual, Performing and Applied Arts (VPAA)*

**120385**

This course is the first part (1 of 5) of the Construction Trades program series. This course is designed to help students learn basic skills needed to repair, maintain, and remodel a home. The course content will include home and tool safety and instruction working with basic hand and power tools. “Green Construction” practices and renewable energy sources will be explored throughout this course. Students will learn(schedule permitting or as available) the basic concepts of installation, repairs and maintenance in drywall, carpentry, plumbing, electricity, roofing and siding, and explore careers in the construction industry.

**CONSTRUCTION FUNDAMENTALS – One Trimester/1 Credit/2 Periods (*Dbl Block*)**

**Grades: 9-12**

 *Visual, Performing and Applied Arts (VPAA)*

**120105**

(*PREREQUISITE: Home Repair & Remodeling*)

This course is the first part (1 of 4) of the Construction Trades program series. This course will introduce students to various careers in the building trades. It includes study of the various careers, math, writing, and hands-on experience. Course content includes safety, measurement, working with various trade modules (carpentry, masonry, electrical, plumbing, roofing, siding, drywall, insulation, and floor coverings), working with basic hand and power tools, basic building concepts in all the trades, and hands on experience in all the trades. “Green Construction” technology will be applied throughout the Construction program sequence.

### **CONSTRUCTION, ROUGH FRAMING –**

**Grades: 10-12  
120111**

One Trimester (Fall ONLY)/1 Credit/2 Periods (*Dbl Block*)

*(PREREQUISITE: Construction Fundamentals, Teacher Interview)*

*Fourth year math elective, if enrolled as a senior*

This course is the third part (2 of 4) of the Construction Trades program series. This course is a part of the Advanced Construction partnership with Habitat for Humanity. It is recommended that students will have taken Basic Drafting & Design. During this initial phase of home building the foundation is completed, the house is framed, plumbing, electrical, heating, carpentry, and roofing work is accomplished. Students will be working off campus, at a Habitat for Humanity work site.

### **CONSTRUCTION, INTERIOR/EXTERIOR –**

**Grades: 10-12  
120112**

 ***Fourth Year Math Elective, if enrolled as a Senior***

One Trimester (Winter ONLY)/1 Credit/2 Periods (*Dbl Block*)

*(PREREQUISITE: Construction Rough Framing, Teacher Interview)*

*Fourth year math elective, if enrolled as a senior*

This course is the fourth part (3 of 4) of the Construction Trades program series. This course is a part of the Advanced Construction partnership with Habitat for Humanity. It is recommended that students will have taken Basic Drafting & Design. During this phase the interior walls and ceilings are dry-walled and painted, flooring is laid out, doors are installed, and plumbing, electrical, heating, carpentry work is completed. Roofing, window, and siding work is also accomplished. Students will be working off campus, at a Habitat for Humanity work site.

### **CONSTRUCTION, FINISHING –**

**Grades: 10-12  
120113**

 ***Fourth Year Math Elective, if enrolled as a Senior***

One Trimester (Spring ONLY)/1 Credit/2 Periods (*Dbl Block*)

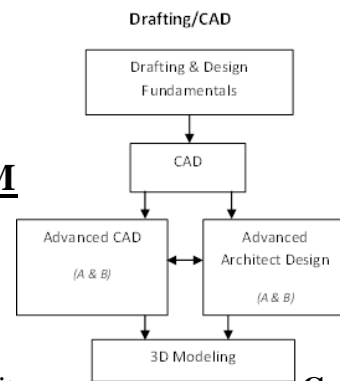
*(PREREQUISITE: Construction Interior/Exterior, Teacher Interview)*

*Fourth year math elective, if enrolled as a senior*


This course is the fifth part (4 of 4) of the Construction Trades program series. This course is a part of the Advanced Construction partnership with Habitat for Humanity. Success in all offered sections is required to be a “completer” of the program. It is recommended that students will have taken Basic Drafting & Design. During this final phase of home building, finishing touches are done to both the interior and exterior. This includes painting, carpeting, linoleum, countertops, appliance installation, and fixtures are installed throughout the house. Exterior siding and fascia is installed and the landscaping work is accomplished. Students will be working off campus, at a Habitat for Humanity work site.

**(\*Free College Credit Agreements are in place that award College Credit after series completion)**

## COMPUTER AIDED DRAFTING & DESIGN PROGRAM



### **DRAFTING & DESIGN FUNDAMENTALS** – One Trimester/.5 Credit

 *Visual, Performing and Applied Arts (VPAA)*

**Grades: 9-12**  
**120075**

This course is the first part (1 of 5) of the Computer Aided Drafting & Design program series. This is a beginning course in drafting for students to explore the various applications and careers within the CAD field. Students are exposed to mechanical, architectural, electrical, civil, and package design using AutoCAD software. CAD equipment including a vinyl cutter and color printer will be utilized in this class. If you like to draw and enjoy computers this class is for you. *A grade of “C” or better is required to move on to additional courses in this program.*

### **CAD - Computer Aided Design** – One Trimester/.5 Credit

*(PREREQUISITE: Drafting & Design Fundamentals, Grade “C” or above)*

**Grades: 10-12**  
**120265**

This course is the second part (2 of 5) of the Computer Aided Drafting & Design program series. Continue learning AutoCAD and how to apply new commands to architectural, civil, mechanical, and electrical blueprints. In this class, students will also learn how to create 3D models for visual design representation. Students will work in a team to create an architectural structure using balsa wood. Team models will be entered into a state competition. *A grade of “C” or better is required to move on to additional courses in this program.*

### **ADVANCED ARCHITECTURAL DESIGN** – Two Trimesters/1 Credit (A & B)

*(PREREQUISITE: CAD, Grade “C” or above)*

**Grades: 10-12**  
**120001, 120002**


 *Fourth Year Math Elective, if enrolled as a Senior*

This course is the third part (3 of 5) of the Computer Aided Drafting & Design program series. This is an advanced course in architecture for students interested in residential or commercial design, construction trades, and related occupations. This course covers a more dynamic and intensive study of Architectural Drafting, encompassing aspects of residential design. Students learn how to layout a set of home construction plans to include: floor plan, kitchen & bath design, elevations, half & full wall section details, and a site plan. Students will continue to use AutoCAD but also take advantage of designing in 3D using Punch software. Creating lifelike house models from floor plan designs is also included in this class. Students will participate in a house design competition where cash prizes are awarded and the winning design could be build. *A grade of “C” or better is required to move on to additional courses in this program.*

### **ADVANCED CAD** – Two Trimesters/1 Credit (A & B)

*(PREREQUISITE: CAD, Grade “C” or above)*

**Grades: 10-12**  
**120271, 120272**

 *Fourth Year Math Elective, if enrolled as a Senior*

This course is the fourth part (4 of 5) of the Computer Aided Drafting & Design program series. During this course, students learn civil engineering principles and participate in the state-wide bridge design competition. Additionally, students learn advanced 2D & 3D modeling techniques and apply them to mechanical, automotive, and industrial piping design. *A grade of “C” or better is required to move on to additional courses in this program.*



**3D DESIGN MODELING** – One Trimesters/.5 Credit

**Grades: 11-12**

*(PREREQUISITE: Completed or enrolled in Advanced Architectural Design and/or Advanced CAD)*

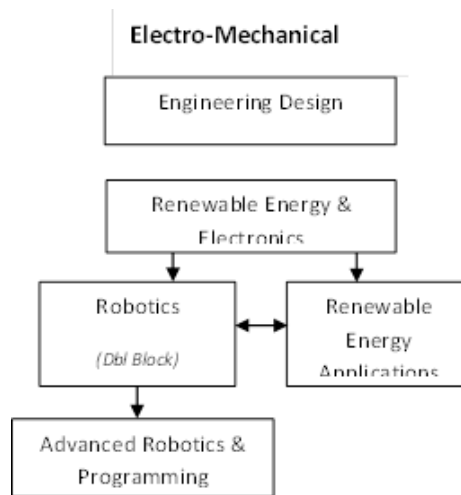
**120285**

 **Fourth Year Math Elective, if enrolled as a Senior**

This course is the fifth part (5 of 5) of the Computer Aided Drafting & Design program series. Design your own computer generated 3D house and walk through it or model your own race car. This is a 3D course in mechanical and architecture design. This course covers 3D modeling, rendering, material application, and animation. You will learn the modeling skills demanded in industry today and bring your designs to life with a state of the art 3D printer. Students will be learning Punch, Inventor, SolidWorks software.


**(\*Free College Credit Agreements are in place that award College Credit after series completion\*)**

**ELECTRO-MECHANICAL PROGRAM**



**ENGINEERING DESIGN, STEM** – One Trimester/.5 Credit

**Grades: 9-12**

 *Visual, Performing and Applied Arts (VPAA)*


**120215**

This course is your starting point on the path to an exciting STEM career (Science, Technology, Engineering and Mathematics), and also the first part (1 of 5) of the Electro-Mechanical program series. It delivers technical instruction through hands-on labs and project-based teaching practices while applying the fundamental employability skills needed to become a highly paid professional. The design process, team work, communication, problem-solving and STEM concepts are experienced in a unique and exciting team setting. Projects are documented while developing technical writing skills. If you're interested in how things work, how they're made, and how to create even better things, then this is the course to take.


**ELECTRONICS & RENEWABLE ENERGY** – One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Engineering Design is strongly suggested)*

 *Visual, Performing and Applied Arts (VPAA)*

**120025**

 **Fourth Year Math Elective, if enrolled as a Senior**


This course is the second part (2 of 5) of the Electro-Mechanical program series. This course is designed to provide students with a basic foundation of the renewable energy resources used for power and heat generation. Students will gain hands-on experience while learning the process and application of converting energy from Solar Power and Wind Turbines, along with techniques and calculations for energy conservation at home and industry. Projects are documented while developing Technical Writing skills. Students will be introduced to the fundamentals of electricity and electronics through the application of renewable energy lab activities. The combination of theory lessons and correlated lab activities allows students gain a solid foundation of power theories and applications of Direct Current (DC) and Alternating Current (AC) circuits. Students will also learn high-reliability soldering techniques and will use various types of Electronic Test Equipment.


**RENEWABLE ENERGY APPLICATIONS** – One Trimester/.5 Credit

**Grades: 10-12**

*(PREREQUISITE: Electronics & Renewable Energy)*

**120035**

 *Visual, Performing and Applied Arts (VPAA)*

 *Fourth Year Math Elective, if enrolled as a Senior*

This course is the third part (3 of 5) of the Electro-Mechanical program series. This course is designed to provide students with advanced renewable energy applications and experience. Students will have hands-on training in the installation of the actual equipment used in residential Solar Power and Wind Turbine Systems. Students will also continue working with power theories and applications of Direct Current (DC) and Alternating Current (AC) circuits, and the use of various types of Electronic Test Equipment. Success in this class will prepare students for an Electrical Engineering, Alternative Energy Equipment Technician, Electrician, Electronic Repair Technician or other related occupation.

**ROBOTICS** - One Trimester (Winter ONLY) 1 Credit/2 Periods (*Dbl Block*)

**Grades: 10-12**

*(PREREQUISITE: Electronics & Renewable Energy is strongly suggested)*

**120032**

BE A PART OF THE TEAM! This course is the fourth part (4 of 5) of the Electro-Mechanical Program series. This course allows students to gain knowledge in complex robotic and electronic principles and techniques. Through teaming and project-based lab activities, robotic sub-systems and control methods will be researched. Students will design and build an automated robotic machine system while working in a highly technical teaming environment. Students may participate in the FIRST Robotics competition, applying all aspects required of a small engineering business. Several Programming Languages will be used to control the systems developed. Projects are documented while developing Technical Writing skills.


**ADVANCED ROBOTICS & PROGRAMMING** -

**Grades:10-12**

One Trimester (Winter)/.5 Credit

**120033**

*(PREREQUISITE: Robotics)*

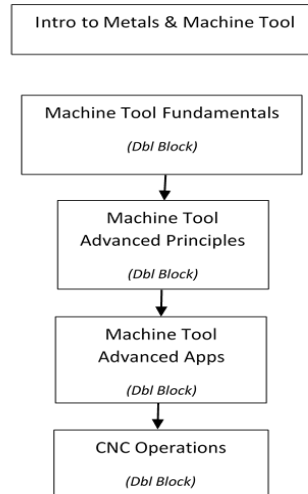
 *Fourth Year Math Elective, if enrolled as a Senior*

This course is the fifth part (5 of 5) of the Electro-Mechanical program series. Students will apply previous robotic experience while creating and testing robots using various programming languages, (Programmable Logic Controllers, STAMP, ROBOT-C, and LABVIEW). Participants will learn how to read and design schematic diagrams used in today's industrial environment while hardwiring and installing equipment. Students will design, build and program an electro-mechanical manufacturing system (robotics) while working in a team environment. Students will build upon prior experience while participating in the FIRST Robotics competition during the building of the competition robot. Careers available include Robotics Programmer, Computer Aided Manufacturing Systems Technician, Software Programmer, Electrical/Electronics Engineer, Manufacturing Engineer.

(\*Free College Credit Agreements are in place that award college credit after series completion\*)


# MACHINING & MANUFACTURING PROGRAM

## Machine Tooling and Manufacturing



**Grades 9-10**  
**120225**

### **INTRO TO METALS** – One Trimester/.5 Credit

 *Visual, Performing and Applied Arts (VPAA)*

*Fourth year math elective, if enrolled as a senior*


This course is designed for the student who would like to receive a general metal working or manufacturing background. It will cover several different areas including shop safety, measurement, understanding drawings, hand tools, grinders, drill presses, and power saws. Hands-on work will include bench work, material layout, and metal forming, with a strong emphasis on hand tool knowledge, and basic machine use. Students will be able to operate a metal lathe and vertical milling machine. Projects made in this course will be made of steel, aluminum, or brass and can be kept or used for many years. This course is an exploratory class for the Machine Tool or Welding Technology programs.

### **MACHINING FUNDAMENTALS** –

One Trimester/1 Credit/2 Periods *(Dbl Block)*

**Grades: 10-12**

**120245**

 *Visual, Performing and Applied Arts (VPAA) MACHINISTS ARE IN HIGH DEMAND!*

*(PREREQUISITE: Intro to Metals Recommended or Instructor Interview)*

*Fourth year math elective, if enrolled as a senior*

This course is part(1 of 4) of the Machining program series. This course is for students interested in a mechanical/manufacturing or machining career. Students will develop entry level skills in the production, operation, and quality control processes used in industry. The career classifications of machine operator and machinist apprentice are possible for future employment opportunities. The course will include instruction in the use of industrial material and the theory/methods of machine operations. Students will receive instructional/hands-on experience on the use of the band saw, drill press, lathe, milling machine, and surface grinder. In addition, students will be introduced and receive hands-on training in programming and operation of computer operated machine tools (CNC-Computer Numerical Control). In addition, students will use the CNC Lathe Turning Center. This class helps prepare students to enter a Mechanical Engineering occupation.

### **MACHINING, ADVANCED PRINCIPLES -**

**Grades: 10-12**

One Trimester 1 Credit/2 Periods *(Dbl Block)*(*PREREQUISITE: MACHINE FUNDAMENTALS*) **120041**

*(PREREQUISITE: Machining Fundamentals, Teacher Interview) [4<sup>th</sup> year Math if enrolled]*

*Fourth year math elective, if enrolled as a senior*

This course is the second part (2 of 4) of the Machining program series. This course is designed to prepare you for a career in the intermediate levels of the production, operation, engineering and quality control processes used in the manufacturing industry today. The career classifications of machine operator, machinist, die maker, mold maker, and quality control inspector are possible for future employment opportunities. The course will include an in-depth study of the theory/methods of machine operation as well as hands-on experience using a project-based curriculum.

## **MACHINING, ADVANCED APPLICATIONS -**

One Trimester /1 Credit/2 Periods (*Dbl Block*)

(*PREREQUISITE: Machining Advanced Principles, Teacher Interview*)

*Fourth year math elective, if enrolled as a senior*

This course is the third part (3 of 4) of the Machining program series. This course is designed to allow students to build on skills learned in the previous courses. The career classifications of machine operator, machinist, die maker, mold maker, and quality control inspector are possible for future employment opportunities. The course will include an in-depth study of the theory/methods of machine operation as well as hands-on experience using a project-based curriculum.


**Grades: 10-12**

**120042**

## **MACHINING, CNC OPERATIONS**

One Trimester /1 Credit/2 Periods (*Dbl Block*)

(*PREREQUISITE: Machining, Advanced Applications, Teacher Interview*)

 **Fourth Year Math Elective, if enrolled as a Senior**

*Fourth year math elective, if enrolled as a senior*

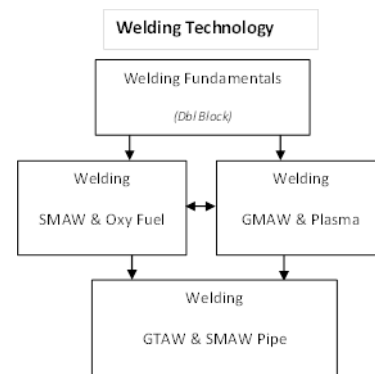
This course is the fourth part (4 of 4) of the Machining program series. This course is designed to introduce Computer Numerical Control (CNC) machining/manufacturing techniques. The theory of operation, programming, editing, and hand-on experience in the use of CNC equipment is the focus of this course. The use of state-of-the-art CNC equipment is available for the student to gain real-world operating experience. This course is the capstone of the Machining and Manufacturing program. Students will be prepared for a career in the intermediate levels of the production, operation, and quality control processes used in the manufacturing industry today as entry level machinists or they may continue improving their technical skills at an institution of higher education.

**Grades: 10-12**

**120043**

(\*Free College Credit Agreements are in place that award College Credit after series completion\*)


## **WELDING TECHNOLOGY PROGRAM**



**WELDING FUNDAMENTALS** – One Trimester/1 Credit/2 Periods (*Dbl Block*)

(*PREREQUISITE: Suggested: Introduction to Metals*)

*Fourth year math elective, if enrolled as a senior*

 *Visual, Performing and Applied Arts (VPAA)*

This course is the first part (1 of 4) of the Welding Technology program series. This course is for students interested in a career in welding or the manufacturing industry. Students will develop entry level skills in the areas of Shielded Metal Arc Welding (SMAW or Stick), Shop Safety, Gas Metal Arc Welding (GMAW or Wire), Oxy-Fuel Welding and Cutting, Plasma Arc Cutting, Soldering, correct use of welding tools and equipment, as well as learning to weld in various welding positions. This class helps to prepare students to enter a Welding Engineering or Mechanical Engineering occupation.

**Grades: 10-12**

**120355**

**WELDING, SMAW & OXY FUEL WELDING & CUTTING –****Grades: 10-12**One Trimester (Fall ONLY)/1 Credit/2 Periods (*Dbl Block*)**120061***(PREREQUISITE: Welding Fundamentals, Teacher Interview)**Fourth year math elective, if enrolled as a senior*

This course is the second part (2 of 4) of the Welding Technology program series. In addition to continuing to increase skills and knowledge in areas already covered, Oxygen-Fuel Welding and Cutting (OAW & OFC) procedures and techniques are learned. Students will also continue applying mathematics, welding symbol interpretation, print reading skills while applying the work ethics expected for employment in the welding field. Students are required to complete a minimum of one project based assignment during the course. The Welding Career Path is presently one that is showing an incredible growth potential in our area. Successful students can find employment in many trade areas, and the manufacturing industries.

**WELDING, GMAW & PLASMA CUTTING (PAC) –****Grades: 10-12**One Trimester (Winter ONLY)/1 Credit/2 Periods (*Dbl Block*)**120062***(PREREQUISITE: Welding SMAW & Oxy Fuel, Teacher Interview)* *Fourth Year Math Elective, if enrolled as a Senior*

This course is the third part (3 of 4) of the Welding Technology program series. In addition to continuing to increase skills and knowledge in areas already covered, Gas Metal Arc Welding (GMAW), and Plasma Cutting (PAC) techniques are learned. Students will also continue applying mathematics, welding symbol interpretation, print reading skills while applying the work ethics expected for employment in the welding field. Students are required to complete a minimum of one project based assignment during the course. The Welding Career Path is presently one that is showing an incredible growth potential in our area. Successful students can find employment in many trade areas, and the manufacturing industries.

**WELDING, GTAW & SMAW PIPE WELDING –****Grades: 10-12**One Trimester (Spring ONLY)/1 Credit/2 Periods (*Dbl Block*)**120063***(PREREQUISITE: Welding GMAW & Plasma Cutting)* *Fourth Year Math Elective, if enrolled as a Senior*

This course is the fourth part (4 of 4) of the Welding Technology program series. While continuing to increase skills and knowledge in areas already covered, Gas Tungsten Arc Welding (GTAW) and Shielded Metal Arc (SMAW) Pipe Welding techniques are learned by the students. This course is the capstone of the Welding Series, and provides students with the advanced skills needed by welders. Students will also continue applying mathematics, welding symbol interpretation, print reading skills while applying the work ethics expected for employment in the welding field. Students are required to complete a minimum of one project based assignment during the course. The Welding Career Path is presently one that is showing an incredible growth potential in our area. Successful students can find employment in many trade areas, and the manufacturing industries.

**(\*Free College Credit Agreements are in place that award College Credit after series completion\*)****ENGINEERING, MANUFACTURING and INDUSTRIAL TECHNOLOGY CO-OP – Grades: 11-12**Three Trimesters/1.5 Credits (1 period) or 3 Credits (2 periods) *See Co-op Coordinator**(PREREQUISITE: Currently enrolled in or completed a related T&I class and co-op coordinator approval.)*

T&I Co-op is a coordinated work experience program in an array of related trade & industrial fields. The co-op coordinator places the student in a work experience that is close to his/her occupational interest and goal. Students are released from school to attend work and are supervised and graded by their employer and their co-op coordinator.



# MONROE HIGH SCHOOL HUMAN SERVICES DEPARTMENT

## Human Services Career Pathway



The goal of the Health and Human Services Department is to enable students to gain skills and knowledge in their lives and the lives of their families in the changing professional and technical world. Preparing for the numerous careers in Health and Human Services is an important step towards success in today's economy. Each course that is part of a larger program sequence will be listed together with program completion information included.



A course that is accompanied by this symbol meets the graduation requirements outlined by the Michigan Merit Curriculum (MMC).

### Health & Human Services

Parenting

Family Living

Preparing for the  
Real World

## HUMAN SERVICES

### **FAMILY LIVING** – One Trimester/.5 Credit

**Grades: 9-12**



*Visual, Performing and Applied Arts (VPAA)*

**150005**

This personal development course is designed to help the student meet the challenges of daily life with confidence. The focus is to help each person develop a range of skills related to interpersonal and family relationships. Basic human needs will be discussed and how we respond to them to gain a better understanding of our own priorities and goals. Also included in the course will be the development of practical problem solving techniques, methods dealing with stress, good communication skills, conflict resolution, and the impact and signs of physical and mental abuse.

### **PARENTING** – One Trimester/.5 Credit

**Grades: 10-12**

*(PREREQUISITE: Suggested: satisfactory completion of Health)*

**150065**

The Parenting course includes information regarding the human body, including reproduction, sexually transmitted diseases, family planning, and pregnancy. Conditions influencing the intellectual, social, emotional, and physical development of children will be covered. The process of deciding to become a parent, instruction in parent-child relationships and parenting practices, examination of parenting issues, recognizing the special needs of children, and parental and environmental influences on child development that are important to raising healthy children will be the focus of the course.

### **PREPARING FOR THE REAL WORLD** – One Trimester/.5 Credit

**Grade: 12**

**150075**

This is a project-based, personal living course with a special emphasis placed on the high school senior to help each of them reach their desired goals in the world after high school. This class will help develop a range of basic skills from looking at each individual's personal priorities, abilities, and goals to helping them attain and keep their job/career. Students will create a digital professional portfolio that portrays their employability skills. Students will learn a better understanding of using financial services, such as checking and savings accounts, and understand paychecks and salaries. In order to encourage and facilitate the transition into independent adult living, students will research housing options, learn to choose and care for appropriate clothing, and become familiar with basic cooking and nutritional choices.

**POSITIVE PEER INFLUENCE/INDEPENDENT STUDY** – Three Trimesters/1.5 Credits **Grades: 10-12**  
(*PREREQUISITE: Teacher Approval Required*) **150131, 150132, 150133**

A student is selected for this course after a teacher recommendation is given. The student must attend a leadership camp offered in the spring of each year. The course offers a student the opportunity to learn conflict resolution skills, leadership traits, in addition to the process of communication with others.

**PSYCHOLOGY** – One Trimester/.5 Credit **Grades: 10-12**  
**200075**

Psychology is a trimester course exploring human behavior. The following areas will be covered: human development concentrated mainly on adolescence and adulthood, individual differences, personality development; applying psychology to individual human problems.

**PSYCHOLOGY, ADVANCED** – One Trimester/.5 Credit **Grades: 11-12**  
(*PREREQUISITES: "C" or better in Psychology*) **200005**


Advanced Psychology is a trimester course designed for 11<sup>th</sup> and 12<sup>th</sup> grade students who have human service occupation career interests. The following areas will be covered: abnormal behavior and treatment, insanity and the law, biology and behavior.

**SOCIOLOGY** – One Trimester/.5 Credit **Grades: 9-12**  
**200105**

Sociology is the study of human society and group behavior. Studying sociology can help you to gain a new perspective for looking at yourself and the world. This interesting course covers topics such as the following: cultural diversity, American value system, social control, social change, conflict and cooperation, personality development, teenagers and dating, adolescence, the world of work, deviance and crime, poverty and the class system, race relations, gender inequality, age discrimination, family, education, religion, sports, population and urbanization, social change, and modernization.

## **FASHION DESIGN PROGRAM**

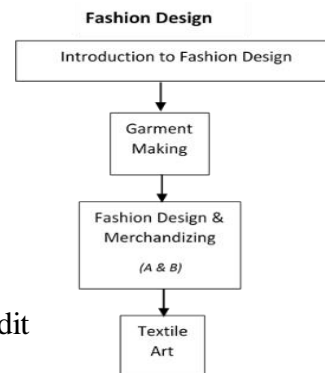
**INTRODUCTION TO FASHION DESIGN** – One Trimester/.5 Credit

 *Visual, Performing and Applied Arts (VPAA)*

This is a pre-requisite course (1 of 4) for the Fashion Design Program sequence. In this beginning sewing class, students will make simple projects using the sewing machine. The student will learn proper machine operation, safety, and maintenance, threading the machine, winding a bobbin, machine buttonholes, and hems. Fasteners, embroidery, basic fibers, fabrics and hand sewing techniques will be covered.

**GARMENT MAKING** – One Trimester/.5 Credit **Grades: 9-12**  
(*PREREQUISITE: Intro to Fashion Design*) **150115**

This is the second course (2 of 4) for the Fashion Design Program sequence. In addition to the construction of a major project from a commercial pattern, the student will complete assignments relating to textiles, garment construction, clothing color and design for the individual. Pattern reading, symbols, interpreting terms and following directions are skills that will be developed.



**Grades: 9-12**  
**150085**

**FASHION DESIGN & MERCHANDIZING** – Two Trimesters/1 Credit

*(PREREQUISITE: Garment Making)*

**Grades: 10-12**

**150121, 150122**

This is the third course (3 of 4) for the Fashion Design Program sequence. This class will analyze the apparel and textile industry from the designing to distribution through major domestic and foreign markets. Emphasis is placed on fashion trends and cycles, history of merchandising and careers. The major project will be apparel construction using a commercial pattern with emphasis placed on fabric selection, fit and techniques.

**TEXTILE ART (QUILTING)** – One Trimester/.5 Credit

*(PREREQUISITE: Intro to Fashion Design)*

**Grades: 10-12**

**150125**

This is the fourth course (4 of 4) for the Fashion Design Program sequence. Students will complete assignments relating to quilt history, traditions, and construction. The creative process will stress color design, drafting the pattern, estimating fabric quantities and costs for purchasing. Proper care and use of sewing equipment will continue to be a focus, along with the construction of a major quilted project.

**(\*Free College Credit Agreements are in place that award College Credit after program completion\*)**

# MONROE HIGH SCHOOL HEALTH SCIENCES DEPARTMENT

## Health Sciences Career Pathway



The Health Sciences Programs offered at Monroe High School allow students an opportunity to explore the health care field where there are many employment choices. This area continues to be the fastest growing career field in the State of Michigan, and can lead to a rewarding future as a health care professional. The Certified Nursing Assistant (CNA) program allows students to work towards a state certification, allowing immediate employment after high school as a Nurse Assistant. Each course that is part of a larger program sequence will be listed together with program complete information included.

- **FREE COLLEGE CREDIT opportunities that apply will be noted at the bottom of the course description. Completion of these courses automatically qualifies students for credit at local colleges. Complete information can be obtained from the CTE Office at 734-265-3450.**

A course that is accompanied by this symbol meets the graduation requirements outlined by the Michigan Merit Curriculum (MMC).

### HEALTH SCIENCE PROGRAM

#### **HEALTH OCCUPATIONS A – One Trimester/.5 credit**

*Visual, Performing and Applied Arts (VPAA)*

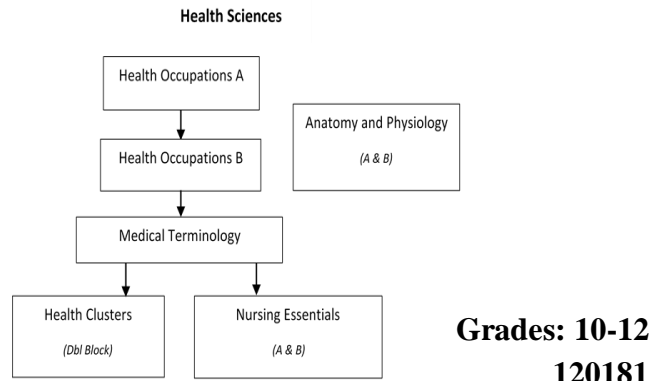
This course is the first part (1 of 5) in the Health Sciences curriculum series. The course is designed to provide students with basic entry level knowledge and skills required for a successful career in healthcare. Students will explore a variety of health care occupations as an introduction to available careers. General instruction is also provided in communication and employability skills, teamwork and leadership within a healthcare setting, and legal and ethical issues pertaining to healthcare. In addition, completion of both Health Occupations A and B, and Medical Terminology are prerequisites for Health Occupations Cluster, Certified Nursing Assistant, and the ability to apply for Health Occupations Co-op.

#### **HEALTH OCCUPATIONS B – One Trimester/.5 credit**

**(PREREQUISITE: Health Occupations A)**

*Visual, Performing and Applied Arts (VPAA)*

This course is the second part (2 of 5) in the Health Sciences curriculum series. The course is an extension of Health Occupations A. The focus of this course will be on workplace safety as it relates to healthcare, and technical skills required for entry level careers in patient care. This will include infection control techniques, CPR, and first aid. In addition, completion of both Health Occupations A and B, and Medical Terminology are prerequisites for Health Occupations Cluster, Certified Nursing Assistant, and the ability to apply for Health Occupations Co-op.



**Grades: 10-12**

**120182**

**MEDICAL TERMINOLOGY** – One Trimester/.5 credit**Grades: 10-12***(PREREQUISITE: Health Occupations A & B)***120135**

This course is the third part (3 of 5) in the Health Sciences program series. The course is designed to help prepare students for further studies in the healthcare field. Upon completion of this course, the student will be able to identify, spell, and define medical terms related to the structure, diagnosis, pathology, and treatment of the major body systems. This is a college level course taught with a college textbook.

**HEALTH OCCUPATIONS CLUSTER** – One Trimester/2 Periods/1 Credit *(Dbl Block)***Grade: 12***(PREREQUISITE: Health Occupations A & B, Medical Terminology, Student Records Review)***120175**

This course is the fourth part (4 of 5) in the Health Sciences program series. The purpose of the program is to expose students to the professional expertise of the Promedica Monroe Regional Hospital staff and state of the art equipment. Students will have an opportunity to assist and observe health care providers while they deliver services. Those areas participating in the educational experiences may include but are not limited to Ambulatory, Cardiac Rehabilitation, Central Transport, Community Relations, Dietary Services, Emergency Department, Laboratory, Neurodiagnostics, Sleep Lab, Nursing, Obstetrics, Pharmacy, Pediatrics, Radiology Services, Rehabilitation Services, Occupational Therapy, Physical Therapy, and Respiratory Therapy. A student records review, by a panel, must show that each student has no history of substance abuse, violent behavior, insubordination, or harrasment/intimidation/bullying behaviors. Each student must also have a good attendance and tardiness record. Our partnerships with local Health and Medical Clinic sites require that no evidence of inappropriate behavior is displayed on any social media site by students. A personal interview with the teacher may be required before admittance to the program to ensure that the student is aware of the type of duties required while attending the program.

(\*Free College Credit Agreements are in place that award College Credit after program completion\*)

**NURSING ESSENTIALS** – Two Trimesters/1 Period/1 Credit**Grade: 12***(PREREQUISITE: Health Occupations A & B, Medical Terms, Anatomy & Physiology preferred)***120191,120192**

This course is the fifth part (5 of 5) in the Health Sciences program series. Student attendance, tardy, and discipline records will be reviewed to ensure that they meet program expectations. The purpose of this course is to further expand on the knowledge and practice of communication and teamwork skills need in the health care setting. Students will learn many nursing aide skills for basic care of residents/patients. Students will be exposed to an in-depth look at the field of nursing across multiple clinical disciplines and educational levels. This class will include field trips to enrich student growth and understanding.

**HEALTH SCIENCES CO-OP****Grades: 11-12**Three Trimesters/1.5 Credits (1 period) or 3 Credits (2 periods) *See Co-op Coordinator***120140***(PREREQUISITE: Currently enrolled in or completed a Health Sciences course and Co-op Coordinator Approval)*

Health Occupations Co-op is a coordinated work experience program in health related fields. The co-op coordinator places the student in a work experience that is close to his/her occupational interest and goal. Students are released from school to attend work and are supervised and graded by their employer and their co-op coordinator.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

**MEDICAL TERMINOLOGY** – One Trimester/.5 Credit

**Grades: 9-12**  
**MVUMT**

This course is designed to introduce the student to the fundamentals of medical terminology. It includes word structure of basic medical/surgical terms and procedures, body parts and organs, selected medical specialties, and commonly used medical abbreviations.

## MONROE HIGH SCHOOL LANGUAGE ARTS DEPARTMENT

### All Career Pathways

The language arts program is designed to meet the needs of students with varied backgrounds and experiences. Students are required to complete, with a passing grade, four years (credits) of language arts from grades 9 through 12. All language arts classes are holistic in their approach and give the students an understanding of language and its many forms of expression needed for employment, college, life experience, and participation in a democratic government.

In the freshman and sophomore years, one level of study is offered, Freshman and Sophomore English. These courses prepare students for the sequence of courses offered in junior and senior years. Freshman and Sophomore English provide a foundation of literature, process writing and verbal communication. The focus of **study in ninth and tenth grade is multigenre literature.**

In the **junior year**, students have **two choices: AP English 11 and Junior English.** AP English 11 is for students who are considering the Advanced Placement English course in the 12th grade. This is an academically accelerated course requiring the completion of an extensive reading list prior to the beginning of the course. The focus of Junior English is on American Literature. (See AP requirement on page 5.)

**Seniors** also have **two choices: Advanced Placement and Senior English.** Advanced Placement is for students who want to take the Advanced Placement exam for college credit. This is an academically accelerated course and requires the completion of an extensive reading list. Senior English focuses on World Literature. (See AP requirement on page 5.)



A course that is accompanied by this symbol meets the Graduation Requirements outlined by the Michigan Merit Curriculum (MMC).



**ENGLISH AS A SECOND LANGUAGE (ESL) 1** – Three Trimesters/1.5 Credit **Grades: 9-12**  
**140211, 140212, 140213**

*(Students please note that in order to take any ESL courses, you must be eligible based on a language proficiency assessment.)* This course is designed to provide assistance to students whose first language is not English and/or whose home language is not English. The focus of ESL 1 will be to help students develop conversational and academic English skills that will enable them to function in the classroom and attain the various objectives of the content area and elective courses in which they are enrolled. This course is recommended for students who are newcomers to this country and/or students who are just beginning to develop their English language proficiency. More proficient ELL students may enroll however if their schedule does not allow them to enroll in ESL 2.

**ENGLISH AS A SECOND LANGUAGE (ESL) 2** – Three Trimesters/1.5 Credit **Grades: 9-12**  
**140311, 140312, 140313**

*(Students please note that in order to take any ESL courses, you must be eligible based on a language proficiency assessment.)*

This course is designed to provide assistance to students whose first language is not English and/or whose home language is not English. The focus of ESL 2 will be to help students with good conversational English skills to improve their academic English skills thus enabling them to fully attain the goals of the content and elective courses in which they are enrolled. This course is recommended for students who are fairly proficient in conversational English, but need assistance with academic English skills. Newcomer and less proficient ELL students may enroll in this course if their schedule does not allow them to enroll in ESL 1.

**09 ENGLISH** – Two Trimesters/1 Credit **Grade: 9**

 *This course fulfills one of the graduation requirements outlined by the MMC.* **140031, 140032**

The literary focus of the course is multigenre literature. A holistic approach to language arts is the foundation of the course. Language, literature, speech, and writing will be assimilated into academic and human experiences. Students are expected to learn from language models such as novels, short stories, biographies, plays, poems, and essays and draw upon personal experience to develop methods of expression through process writing and verbal presentation. In addition, skills needed for formal research projects are introduced. Each student is expected to learn methods of research.

**10 ENGLISH** – Two Trimesters/1 Credit **Grade: 10**

 *This course fulfills one of the graduation requirements outlined by the MMC.* **140041, 140042**


Sophomore language arts continues to focus on multigenre literature. A holistic approach to language arts is the foundation of the course. Language, literature, speech, and writing will be assimilated into academic and human experiences. Students are expected to learn from language models such as novels, short stories, biographies, plays, poems, and essays and draw upon personal experience to develop methods of expression through process writing and verbal presentation. In addition, skills needed for formal research projects are reinforced. Each student is expected to use methods of research.

**11 ENGLISH** – Two Trimesters/1 Credit **Grade: 11**

 *This course fulfills one of the graduation requirements outlined by the MMC.* **140051, 140052**

The literary focus of the course for Trimester A is centered primarily on the student's ability to analyze literature, both fiction and nonfiction, and to support analysis with textual based evidence. The literacy focus of the course for Trimester B is centered on the interpretation of figurative language. The writing focus for both Trimesters A & B is on evidence based claims.


**11 ENGLISH AP, ENGLISH LANGUAGE AND COMPOSITION – 1.5 Credits Possible**      **Grade: 11**  
**1<sup>st</sup> & 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional**      **140151, 140152, 140153**

 *This course will fulfill the English 11 requirement. VPAA credit pending approval.*

The purpose of this course is to help students “write effectively and confidently in their college courses across the curriculum and in their professional and personal lives” (The College Board, *AP® English Course Description*, May 2007, May 2008, p. 6). Students will complete expository and argumentative writing focusing on developing the traditional standards of composition. Students will read critically, think analytically, and communicate clearly both in writing and speech.

**NOTE:** *It is highly recommended that all students taking this class pay for and take the Advanced Placement test in English Language and Composition at the end of the school year. Successful completion of the test may result in college credit.* (See AP requirement on page 5.)


**12 ENGLISH – Two Trimesters/1 Credit**      **Grade: 12**

 *This course fulfills one of the graduation requirements outlined by the MMC.*      **140081, 140082**

The literary focus of this course is a survey of world literature from early Greek to modern 21<sup>st</sup> century. Classical, Medieval, Renaissance, and Modern periods of literature are studied, as well as works from other cultures.

A holistic approach to language arts continues to be the foundation of the course. Language, literature, speech, and writing will be assimilated into academic and human experiences. Students are expected to learn from language models such as novels, short stories, biographies, plays, poems, and essays and draw upon personal experience to develop methods of expression through process writing and verbal presentation.

**12 ENGLISH AP, ENGLISH LITERATURE AND COMPOSITION – 1.5 Credits Possible**      **Grade: 12**  
**1<sup>st</sup> & 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional**      **140071, 140072, 140073**

 *This course will fulfill the English 12 requirement. VPAA credit pending approval.*

Students are engaged in the close reading of literary works through which they sharpen their awareness of language and their understanding of the writer’s craft. Students will develop critical standards for the independent appreciation of any literary work. Writing assignments will focus on the critical analysis of literature and will include essays in exposition and criticism with emphasis on developing an awareness of stylistic devices, subject and audience. The second trimester writing assignments will have the special purpose of preparing the student for the AP exam.

**NOTE:** *It is highly recommended that all students taking this class pay for and take the Advanced Placement test in English Composition and Literature at the end of the school year. Successful completion of the test may result in college credit.*

**CONTEMPORARY NOVEL – One Trimester/.5 Credit**      **Grades: 11-12**  
      **140195**

**This course is intended for the proficient and mature reader.** Students will read a variety of novels from the 20<sup>th</sup> and 21<sup>st</sup> centuries. They may read and discuss works by authors such as: Alice Sebold, Jodi Picoult, Sara Gruen, and Stephen King. Students may read/study novels with the entire class, within small book clubs, and/or within reading workshop.

**CREATIVE WRITING I– One Trimester/.5 Credit**      **Grades: 9-12**  
      **140135**

This one-term elective class is designated for students **who like to write** and are at a beginning level of creative writing ability. Students will work to improve their skills in the craft of writing in a variety of creative and expository genres. They will learn how to use narrative elements and literary devices. The writing process will be emphasized and students will be expected to take several pieces of writing through the process, showing evidence of significant revision.

**CREATIVE WRITING II**– One Trimester/.5 Credit**Grades: 10-12***(Prerequisite: Successful completion of Creative Writing I or teacher recommendation.)***140136**

This one-term elective class is designed for students **who like to write** and are at an advanced level of creative writing ability. Student will build on their skills and will work largely **independently** on longer and/or more complex pieces of writing. This class will operate in a workshop format, and students will assemble a portfolio of their work.

**DEBATE** – One Trimester/.5 Credit**Grades: 11-12****140105**

Debate is a study of several types of argumentation. Emphasis is on the skilled use of logic and evidence. Extensive research and multiple oral presentations are required.

**LITERACY ACHIEVEMENT 9 – Two Trimesters/1 Credit****Grades: 9***(Prerequisite: Assessment Placement)***140091, 140092**

The class gives students an opportunity to engage in academic work with a certified K12 reading specialist supporting them. It also provides an chance for students to develop reading fluency and stamina. Students read high-interest literature while practicing comprehension strategies in a reading workshop setting. Students conference individually and in small groups with the teacher on a daily basis. This class also teaches decision making and focuses on teaching students responsibility, organizational skills, and accountability for their personal school success.

**LITERACY ACHIEVEMENT 10 – Two Trimesters/1 Credit****Grades: 10***(Prerequisite: Assessment Placement)***140093, 140094**

This course is designed for students who have taken Literacy Achievement in the ninth grade and wish to further develop their reading and writing identities to aid them in college and career readiness. While 9th grade Literacy Achievement introduces students to fluency, metacognition, and comprehension, the tenth grade course asks students to identify and discuss these concepts, in addition to completing self-evaluations and assessments by documenting their growth. Students will advance from the study of reading strategies to in-depth application of their close reading, discussion, and critical thinking skills. Open, focused discussion each day will be an integral part of our class goals and foster a collaborative climate. We will explore both fiction and nonfiction texts, participate in a number of text studies in teams and independently, and compile a culminating class portfolio comprised of students' creative and argumentative texts.

**ENGLISH TUTORIAL 1 AND II****Grades: 10-12***Core Teacher and Guidance Counselor Recommendation and Approval***Tutorial I: 140005****Tutorial II 140015**

Applications will be available in the Student Services Department. Pre-approval is required from the applicant's core curriculum teacher. Final approval will be made by the guidance counselor and the assigned core teacher. Students will practice their core knowledge, observe student behaviors as related to learning, discover and utilize teaching strategies that are effective, practice community service, develop a deeper social conscience regarding their peers, apply critical thinking skills to determine how to assist students with learning gaps, develop and improve communication skills, and encourage their tutees to become independent learners. Students will be graded on journal entries, weekly evaluations and feedback from the core teacher, a self assessment of learning, an assessment by their tutees and a final essay.

**HIGHLIGHTER** – Three Trimesters/1.5 Credits**Grades: 9-12***(PREREQUISITE: Teacher Approval Required)***140111, 140112, 140113**

Highlighter members must possess a better than average writing ability, a sincere interest in photo journalism, and a keen sense of the responsibility that they are taking on in helping to produce the yearbook. Successful completion of a journalism course is helpful, but not mandatory. Students write copy, take photos, design pages and sell business advertisements. A multiple year commitment is expected.

**INTRO TO MASS MEDIA COMMUNICATIONS – One Trimester/.5 Credit**

**Grades: 9-12  
140115**

This course is designed for students who wish to explore the influence and impact which various media have on their daily lives. Students will examine the effects of television, social media, internet and film, while developing a set of criteria with which to examine them. Units are offered on persuasion, effects of violence, censorship and government regulation, and basic scheduling and electronic media production. Tests, quizzes, projects and oral presentations will be completed during the trimester.

**JOURNALISM**

**\*\*Students may sign up for this class for 1, 2, or 3 trimesters.**

**Grades: 9-12  
One Trimester/.5 Credit 140125  
Three Trimester/1.5 Credit**

In this course, students will become newspaper interns in a fast-paced, active environment. To be successful in this course, a student should be a proficient, independent worker, be willing to ask for help, and have adequate writing skills, preferably an A or a B in his/her last English class. Students must be willing to socialize with others and have an interest in the journalism field. This course may lead to advancement onto the Lotus Leaf newspaper staff.

**LOTUS LEAF – Three Trimesters/1.5 Credit or Two Trimesters/1.0 Credit**

*(PREREQUISITES: Journalism and Teacher Approval Required)*

**Grades: 10-12**

**140131, 140132, 140133**

This course is limited to students who have completed a high school journalism class. Students must submit a writing sample, application and be selected through an interview process the prior spring. This class is responsible for the production of the school newspaper.

**MYTHOLOGY – One Trimester/.5 Credit**

**Grades: 9-12  
140145**

Concentrating on world mythology, **this course examines the stories of ancient gods, goddesses and heroes of ancient cultures.** Stories of heroes and their adventures include Perseus killing Medusa, Hercules performing the 12 labors, and Achilles fighting in the Trojan War. The main textbook is Mythology by Edith Hamilton. The influence of mythology on today's world is examined.

**PICTURE BOOKS AND PRESCHOOLERS – One Trimester/.5 Credit**

*(PREREQUISITES: Student record review, teacher approval, and outside recommendation)*

**Grades: 11-12  
140175**

This one-trimester course examines how children become ready to learn to read. Students will learn child development and psychology as it relates to literacy as well as various pre-reading strategies like lap reading, reading aloud, and storytelling. What to look for and how to select a picture book will also be examined. Students will work with preschoolers off-site to practice these strategies. Excellent opportunity for students interested in a career in education, child care, or psychology.

**SPEECH – One Trimester/.5 Credit**

**Grades: 10-12  
140165**

This course will emphasize basic argumentation, outlining and organizing, and voice control. Virtually all assignments focus on oral presentation. The course culminates with a final examination.

**YOUNG ADULT LITERATURE – One Trimester/.5 Credit**

**Grades: 9-10  
140185**

Students will read and discuss a variety of young adult novels dealing with teen issues and concerns. Students will study character, setting, plot, language, and theme. Students may read/study novels with the entire class, within small book clubs, and/or within reading workshop.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **ENGLISH 9A**

One Trimester/.5 Credit

**Grades: 9-12**

**MVUE9A**

This is the first course in a two-course sequence. As students' progress through the course, they will explore two main themes, "Courage" and "Choice", and address essential questions while reading a variety of works. Students will read novels, short stories and informational texts, engage in poetry analysis, view informational videos and write for various purposes. Larger writing assignments include a research project and a narrative essay. As a supplement to these writing assignments, students will partake in grammar challenges where they learn about grammar concepts and develop a mastery of their use. In addition to building their writing skills, students will learn several reading strategies such as how to use graphic organizers to extract important information and summarize to monitor comprehension. Furthermore, students will explore several rhetorical devices and strategies like symbolism, figurative language, theme, setting and more.

### **ENGLISH 9B**

One Trimester/.5 Credit

**Grades: 9-12**

**MVUE9B**

*(PREREQUISITE: English 9A)*

This is the second course in a two-course sequence. The two major themes for this semester are "Survival" and "Discovery." As students' progress through these themes, they will address several essential questions related to these themes while reading a variety of works. In addition to major works, students will read short stories and informational texts, engage in poetry analysis, view informational videos, and write for various purposes. Some of the larger writing assignments include a research project and a narrative essay. As a supplement to these writing assignments, students will partake in grammar challenges where they learn about grammar concepts and develop a mastery of their use. In addition to building their writing skills, students will learn several reading strategies such as how to use graphic organizers to extract important information and summarize to monitor comprehension. Furthermore, students will explore several rhetorical devices and strategies like characterization, allusion, word choice and diction, setting, and more.

### **ENGLISH 10A**

One Trimester/.5 Credit

**Grades: 9-12**

**MVUE10A**

*(PREREQUISITE: English 9)*

This is the first course in a two-course sequence. Students will read engaging works and explore topics of interest as they develop their reading, writing and speaking skills. Students will use essential questions to focus on a topic for each unit.

### **ENGLISH 10B**

One Trimester/.5 Credit

**Grades: 9-12**

**MVUE10B**

*(PREREQUISITE: English 10A)*

This is the second course in a two-course sequence. In this course students will read engaging works and explore topics of interest as they develop their reading, writing, and speaking skills. Students will use essential questions to focus on a topic for each unit. The course is aligned to the Common Core Standards.

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### **ENGLISH 11A BRITISH LITERATURE** One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: English 10)*

**MVUE11A**

This is the first course in a two-course sequence. In this course students will read engaging works and explore topics of interest as they develop their reading, writing, and speaking skills. Students will use essential questions to focus on a topic for each unit, such as Transformation of Language and Informed Decision Making.

### **ENGLISH 11B BRITISH LITERATURE** One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: English 11A)*

**MVUE11B**

This is the second course in a two-course sequence in British literature. In this course students will read engaging works and explore topics of interest as they develop their reading, writing, and speaking skills. Students will use essential questions to focus on a topic for each unit, such as Technology: Potential for Enhancing Human Life and The DNA for Survival.

### **ENGLISH 12A AMERICAN LITERATURE** One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: English 11)*

**MVUE12A**

This is the first course in a two-course sequence. Two major themes for this course are “Leadership at Home” and “Leadership in Society.” Students will address several essential questions related to these themes while reading a variety of works by American authors. In addition to major works, students will read short stories and informational texts, engage in poetry analysis, view informational videos, and write for various purposes. Larger writing assignments include an informative essay and a major research project. Students partake in grammar challenges where they learn about grammar concepts and develop a mastery of their use. In addition to building their writing skills, students learn several reading strategies such as how to use graphic organizers to extract important information, take Cornell notes for an informational text or during a lecture, and summarize to monitor comprehension. Furthermore, students will explore several rhetorical devices and strategies like symbolism, dialect, author’s purpose, foreshadowing, persuasive devices, setting and more.

### **ENGLISH 12B AMERICAN LITERATURE** One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: English 12A)*

**MVUE12B**

This is the second course in a two-course sequence and has been redesigned to align to the Common Core Standards. Two major themes for this semester are “Becoming My Own Leader” and “Leading Others.” Students will address several essential questions related to these themes while reading a variety of works by American authors. In addition to major works, students will read short stories and informational texts, engage in poetry analysis, view informational videos, and write for various purposes. Larger writing assignments include an argument essay, a narrative essay, and a business email. As a supplement to these assignments, students will partake in grammar challenges where they learn about grammar concepts and develop a mastery of their use. In addition to building their writing skills, students learn several reading strategies such as how to use graphic organizers to extract important information, take Cornell notes for an informational text or during a lecture, and summarize to monitor comprehension. Furthermore, students will explore several rhetorical devices and strategies like characterization, allusion, word choice and diction, setting, symbolism, point of view, and more.



## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **COMPOSITION (BEGINNING)** One Trimester/.5 Credit

**Grades: 9-12**  
**MVUCOMP B**

This is the first course in a two-course sequence. In this course, students will study and become proficient in the use of the writing process. Students will also learn several grammar concepts that involve sentence structure, punctuation, and usage. In addition, they will learn about essay structure and organization through the development of five common types of essays: process analysis, definition, narrative, comparison/contrast, and classification and division.

### **COMPOSITION (ADVANCED)** One Trimester/.5 Credit

**Grades: 9-12**  
**MVUCOMP A**

This is the first course in a two-course sequence. In this course, students will study and become proficient in the use of the writing process. Students will also learn several grammar concepts that involve sentence structure, punctuation, and usage. In addition, they will learn about essay structure and organization through the development of five common types of essays: process analysis, definition, narrative, comparison/contrast, and classification and division.

### **FILM STUDIES: AMERICAN FILM SURVEY** One Trimester/.5 Credit

**Grades: 9-12**  
**MVUFS**

American Film Survey is an exciting journey through what is arguably this country's most influential and beloved art form: cinema. Among the classic film genres examined are film noir, western, comedy, military, epic, psychological drama and independent film. Through viewing, theory and written critique, the student follows the evolution of cinema within the context of our culture and history. Prominent directors and actors both contemporary and past are also highlighted. The culmination of this course prepares the student for more advanced film studies, promotes the development of written expression and analysis and encourages critical thinking with regard to the relationship between popular art and society.

### **FILM STUDIES: DIRECTORS OF THE GOLDEN AGE** One Trimester/.5 Credit

**Grades: 9-12**  
**MVUFSDG**

The master of suspense — Alfred Hitchcock — and the master of elegance — George Cukor — are among the directors who influenced the cinematic art form in the United States during the Golden Age of Hollywood (1930s-50s). This course delves deep into the American film tradition by studying such iconic directors as Alfred Hitchcock (The Birds), Frank Capra (It's a Wonderful Life), George Cukor (My Fair Lady), Howard Hawks (The Big Sleep) and Billy Wilder (Sunset Boulevard).

### **JOURNALISM** One Trimester/.5 Credit

**Grades: 9-12**  
**MVUJ**

The basics of journalism, including laws and ethics, freedom of the press and the principles of journalistic writing, are powerful tools. In the early 1970s, two Washington Post reporters uncovered a scandal known as Watergate and eventually a president was forced to resign. In this course, you'll learn how to generate story ideas, conduct an interview and then put it all together as you write both news and sports stories. You'll also be introduced to feature writing and editorials. You'll be part of a team of students who will write articles for an online newspaper.

## Online Learning – Michigan Virtual University

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### **WORLD LITERATURE**

One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Two years of high school English)*

**MVUWLIT**

World Literature introduces students to different cultures and time periods in world history and focuses on the literature that came from each culture. Students will read literature from the Ancient World (Greece and Rome), China, Japan, the Middle East, Africa, Europe and contemporary literature from all over the world. By reading these selections students will be able to make connections between world cultures and their own lives.

### **AP ENGLISH LANGUAGE AND COMPOSITION (SEM 1)** One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Three years of high school English)*

**MVUAPELNC**

This is the first semester in a two-semester sequence and provides students with college level instruction in studying and writing various kinds of analytic or persuasive essays on literary and nonliterary topics in language, rhetoric and expository writing. Students will become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. Both their reading and writing should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way writing conventions and language contribute to effectiveness in writing. This course will effectively prepare students for the AP Exam by enabling them to read, comprehend, and write about complex texts, while developing further communication skills on a college level. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP ENGLISH LANGUAGE AND COMPOSITION (SEM 2)** One Semester/.5 Credit

**Grades: 9-12**

**MVUAPELNC2**

This is the second semester in a two-semester sequence and provides students with college level instruction in studying and writing various kinds of analytic or persuasive essays on literary and nonliterary topics in language, rhetoric and expository writing. Students will become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. Both their reading and writing should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way writing conventions and language contribute to effectiveness in writing. This course will effectively prepare students for the AP Exam by enabling them to read, comprehend, and write about complex texts, while developing further communication skills on a college level. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

**AP ENGLISH LITERATURE AND COMPOSITION (SEM 1) One Semester/.5 Credit      Grades: 9-12  
MVUAPELC1**

This course is the first semester of a two-semester sequence. For a year, participate in an AP upscale dining experience in the AP Literature and Composition course. Students act as food critics of exquisite literary cuisine. Menu items include reading, analyzing, writing, rewriting, and discussing creations by the master chefs, renowned authors. With intensive concentration on composition skills and on authors' narrative techniques, this dining experience equips students with recipes for success in college, in a career and the AP exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

**AP ENGLISH LITERATURE AND COMPOSITION (SEM 2) One Semester/.5 Credit      Grades: 9-12  
MVUAPELC2**

This course is the second semester of a two-semester sequence. For a year, participate in an AP upscale dining experience in the AP Literature and Composition course. Students act as food critics of exquisite literary cuisine. Menu items include reading, analyzing, writing, rewriting, and discussing creations by the master chefs, renowned authors. With intensive concentration on composition skills and on authors' narrative techniques, this dining experience equips students with recipes for success in college, in a career and the AP exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

# MONROE HIGH SCHOOL MATHEMATICS DEPARTMENT


## All Career Pathways

The Mathematics Department offers a rigorous three-year or four-year sequence of courses for students with varied learning styles and academic interests. Our goal is to enable every student to reach his or her potential in a supportive, academically focused environment. In every mathematics course, we want students to learn what it means to explore and discover mathematics (in essence, what it means to develop the habits of a mathematical mind and to think critically). We believe all students can reach high standards of academic achievement.

Monroe High School offers an integrated sequence of mathematics courses for all underclassmen. For simplicity, they are named Math 1, Math 2, and Math 3. These courses offer the same content traditionally found in Algebra 1, Geometry, and Algebra 2 but the content is simply reordered so the students see some algebra, some geometry and/or trigonometry, and some statistics and/or probability each year. Also, the content is taught in a more contextual manner (meaning that the content is often introduced by exploring where the topic might be found in “real life”). Due to the nature of the courses, it is very difficult to take any of them concurrently (it is not suggested that Math 1 be taken at the same time as Math 2, for example).

Students are recommended for courses based on teacher assessments of the student’s ability. This may involve the use of diagnostic tests. Students and parents are advised to consider teacher recommendations very carefully and to consult with the teacher if questions arise about the placement.

The Mathematics Department supports the use of calculators. While a calculator is not always appropriate, calculator use is important in many areas of the math curriculum. Most courses and all advanced courses require the use of at least a scientific calculator. Many courses rely on graphing calculators. Some classroom sets of calculators are available, but at some point the student may find it beneficial to have his/her own graphing calculator. All of our courses actively integrate graphing calculator technology with the traditional curriculum. Although the MHS Mathematics Department does not specifically endorse any particular manufacturer, the TI-83, TI-84, TI 89 and/or the TI-nSpire are the models that most teachers will use in the classroom and for demonstration purposes. Any of the models above are adequate for all of a student’s mathematical studies during their high school years at MHS. If you are considering the purchase of another manufacturer’s graphing and/or scientific calculator, please address any questions regarding calculator purchase to your teacher to ensure it meets the needs of your particular class.


 A course that is accompanied by this symbol meets the graduation requirements outlined by the Michigan Merit Curriculum (MMC).

### **MATH 1 – Two Trimesters/1 Credit**


**Grades: 9-10**

*(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.)*

**160305, 160315**

 *This course fulfills one of the graduation requirements outlined by the MMC*


This course is designed to introduce students to a variety of mathematical concepts. Topics include cause and effect, change over time, working with data, linear functions, exponential functions, polygons and polyhedra, quadratic functions, probability, and discrete mathematics. A graphing calculator is recommended but not required. This course begins preparing you for success on the 11<sup>th</sup> grade MME. Students successfully completing this course should enroll in Math 2. Students who do not successfully complete Math 1, and because it is a building block for all other math courses, must enroll in E2020, summer school, or online course.

**MATH 2 – Two Trimesters/1 Credit****Grades: 9-11***(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.)* **160325, 160335** *This course fulfills one of the graduation requirements outlined by the MMC*

This course continues to introduce students to a variety of mathematical concepts that they began exploring in Math 1. Topics include direct and inverse variation, systems of linear equations, matrices, analytic geometry, regression and correlation, quadratic functions, logarithmic functions, discrete mathematics, trigonometry, and probability. A graphing calculator is recommended but not required. This course continues preparing you for success on the 11<sup>th</sup> grade MME. Students successfully completing this course should enroll in Math 3 (2-tri) or Math 3 (4-tri). Students who do not successfully complete Math 2, and because it is a building block for all other math courses, must enroll in E2020, summer school, or online course.

**MATH 3A / MATH 3B / MATH 3C – Three Trimesters/1.5 Credits****Grades: 10-12***(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.)***166404, 166405, 166406** *This course fulfills one of the graduation requirements outlined by the MMC*

This course continues to introduce students to a variety of mathematical concepts building on what they have seen in Math 1 and Math 2. Topics include reasoning and proof, inequalities and linear programming, similarity and congruence, samples and variation, polynomial and rational functions, circles and circular functions, recursion and iteration, and inverse functions. A graphing calculator is recommended but not required. This course finishes preparing you for success on the 11<sup>th</sup> grade MME. Students successfully completing Math 3 and interested in taking AP Calculus or in exploring topics beyond the expected high school curriculum should enroll in Math 4. Students successfully completing Math 3 and enrolling in Math 4 should also consider taking AP Statistics concurrently with Math 4. Students who do not successfully complete Math 3 must enroll in E2020, summer school, or online course.

**MATH 4A / MATH 4B – Two Trimesters/1.0 Credits****Grades: 11-12***Recommended that student receive a ‘B’ or higher in Math 2***167404, 167405***(Guidance Counselor and Teacher Recommendation) (Class of 2017)**(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.)* *This course fulfills one of the graduation requirements outlined by the MMC*

This is an advanced math course that continues to build and deepen the knowledge of what students have seen in Math 1, Math 2, and Math 3. This course is a transition to college mathematics, statistics, or calculus. Topics include functions, vectors and motion, trigonometric functions, exponential & logarithmic functions, three dimensional surfaces, a small intro to calculus, and counting & induction. A graphic calculator is recommended. Students successfully completing Math 4 should consider moving on to AP Calculus AB or AP Calculus BC (and/or AP Statistics, if they are not taking this currently with Math 4) to further their college-prep work in mathematics.

**CALCULUS AB, ADVANCED PLACEMENT – 1.5 Credits Possible****Grade: 12****1<sup>st</sup> & 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional****160021, 160022, 160023***(PREREQUISITE: “C” or better in Math 4)**(It is recommended a graphing calculator [TI-84 Plus or TI-89] be purchased for this class.)*

This is a college level course that covers the material of differential and integral Calculus. Specific topics include basic derivatives and integrals as well as those of exponential, logarithmic, and trigonometric functions. Applications of derivatives and integrals, L’Hopital’s Rule, differential equations, and slope fields are also covered. As this is a college level course, students should expect to meet high expectations of quantity and quality of work.

**NOTE:** *It is highly recommended that all students taking this class pay for and take the Advanced Placement test in Calculus at the end of the school year. Successful completion of the test may result in college credit.*

**(See AP requirement on page 5.)**

**CALCULUS BC, ADVANCED PLACEMENT – 1.5 Credits Possible****Grade: 12****1<sup>st</sup> & 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional****160031, 160032, 160033***(PREREQUISITE: “C” or better in Math 4) (It is recommended a graphing calculator [TI-84 Plus or TI-89] be purchased for this class.)*

This is a college level course that covers the material of differential and integral Calculus. Students should expect to meet high expectations of quantity and quality of work. All topics found in the AP Calculus AB course (above) are covered as well as partial fractions, integration by parts, improper integrals, polar coordinates, sequences, series, and vectors. It is assumed that all students taking AP Calculus BC will recall their work in their Pre-Calculus class (see below) or are proficient in limits, continuity, the Intermediate Value Theorem, and finding the slopes of lines tangent to a curve.

**NOTE: It is highly recommended that all students taking this class pay for and take the Advanced Placement test in Calculus at the end of the school year. Successful completion of the test may result in college credit.**

**(See AP requirement on page 5.)****COMPREHENSIVE MATH – One Trimester/.5 Credit****Grade: 12****160115**

This is a rigorous 4<sup>th</sup> year math course reviewing important topics from Algebra 1 and Geometry for those wishing review before entering a college math class. Topics covered will include algebraic equations and inequalities, graphs, functions and systems of linear equations, problem solving and critical thinking, logic, geometry, and mathematical systems.

**FINANCIAL LITERACY – One Trimester/.5 Credit****Grade: 12****160065**

This is a rigorous 4<sup>th</sup> year math course focusing on the mathematics behind spending wisely and making money grow. Topics include buying for you and your home; buying, leasing, and running a home or motor vehicle; paying your taxes; managing your insurance needs; saving and borrowing money; and investments. Some of these topics will be explored using material from the FDIC called “Money Smart for Young Adults.”

**MATH TUTORIAL I AND II****Grades: 10-12***(Core Teacher and Guidance Counselor approval)***Tutorial I: 160205 Tutorial II: 160215**

Applications will be available in the Student Services Department. Pre-approval is required from the applicant’s core curriculum teacher. Final approval will be made by the guidance counselor and the assigned core teacher.

Students will practice their core knowledge, observe student behaviors as related to learning, discover, and utilize teaching strategies that are effective, practice community service, develop a deeper social conscience regarding their peers, apply critical thinking skills to determine how to assist students with learning gaps, develop and improve communication skills, and encourage their tutees to become independent learners. Students will be graded on journal entries, weekly evaluations and feedback from the core teacher, a self assessment of learning, an assessment by their tutees and a final essay.

**STATISTICS, ADVANCED PLACEMENT – 1.5 Credits Possible****Grades: 11-12****1<sup>st</sup> & 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional****160041, 160042, 160043***(PREREQUISITE: Successful completion of Math 3)*

*(It is recommended that students take this class in conjunction with another college bound math class and it is recommended that a graphing calculator [TI-83, TI-84 and/or TI-nSpire] be purchased for this class.)*

This class will have an online portion to it, so students will need computer access to complete some of the material. The purpose of the AP Statistics course will be to introduce students to the major concepts and themes of statistics, through many and varied real-world examples. Four broad conceptual themes will be explored: exploring data, collecting data, probability, and statistical inference. This is a college level course, therefore students will be required to meet very high expectations. The course will provide the opportunity for hands-on investigations that will be pursued individually or in small groups. **NOTE: It is expected that all students taking this class pay for and take the Advanced Placement exam in Statistics at the end of the school year. Successful completion of the exam may result in college credit. (See AP requirement on page 5.)**



**STATISTICS, INTRODUCTION TO – One Trimester/.5 Credit**

**Grade: 12  
160105**

This is a rigorous 4<sup>th</sup> year math course designed to provide students with a general overview of statistics. The extensive use of statistics in the modern world makes it imperative that the educated citizen understand the fundamental concepts and ideas which are reached by statistical methods. This is achieved by introducing statistics and probability assuming a relatively sparse mathematical background. Calculators are used extensively in this course.

## **Online Learning – Michigan Virtual University**

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**MATHEMATICS OF PERSONAL FINANCE**      One Trimester/.5 Credit      **Grades: 9-12  
MVUMOPF**

This course is the first in a two-course sequence (Personal Finance for Young Adults is the second course). In this course, students will explore the mathematics concepts and processes associated with personal finance and improve their basic math skills.

**PERSONAL FINANCE FOR YOUNG ADULTS**      One Trimester/.5 Credit      **Grades: 9-12  
MVUPFYA**

This course is the second in a two-course sequence (Mathematics of Personal Finance is the first in the series, but it is not a prerequisite). Personal Finance for Young Adults teaches students how to apply real-life mathematics concepts and processes to their personal finances. For instance, students will learn how to manage their money.

**MATHEMATICS OF BASEBALL**      One Trimester/.5 Credit      **Grades: 9-12  
MVUMOB**

Baseball is a game of numbers on the field and off. Every run, hit and error has been carefully recorded for more than 100 years. Drawing on this wealth of statistics, this course uses mathematics to explore the history of our National Pastime. The course uses basic and applied mathematics skills including mean, median, mode, graphs (line graphs, bar graphs, pie graphs, and scatter plots), ratios and proportions, conversions, scale drawings and spreadsheets. The baseball topics include reviewing the history, statistics, base running, coaching decisions, biographies of Hall of Fame inductees and field design. This course was developed using the resources of the National Baseball Hall of Fame in Cooperstown, New York.

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### **ALGEBRA 1A**

One Trimester/.5 Credit

**Grades: 9-12**  
**MVUA1A**

This course is the first in a two-course sequence. In the course, students will learn about algebraic concepts such as integers, linear equations, inequalities and factoring. As students work through each interactive lesson, they will have the opportunity to complete several self-check activities and journal entries. Ultimately, this course will assist students in developing fundamental algebraic skills that will allow them to use problem-solving strategies in real-world situations as well as using graphing technology to interpret, represent and communicate mathematical concepts.

### **ALGEBRA 1B**

One Trimester/.5 Credit

**Grades: 9-12**  
**MVUA1B**

*(PREREQUISITE: Algebra 1A)*

This course is the second in a two-course sequence. In the course, students will learn about algebraic concepts such as integers, linear equations, inequalities and factoring. As students work through each interactive lesson, they will have the opportunity to complete several self-check activities and journal entries. Ultimately, this course will assist students in developing fundamental algebraic skills that will allow them to use problem-solving strategies in real-world situations as well as using graphing technology to interpret, represent and communicate mathematical concepts.

### **ALGEBRA 2A(FVS)**

One Trimester/.5 Credit

**Grades: 9-12**  
**MVUA2AFVS**

*(PREREQUISITE: Algebra 1A & Algebra 1B)*

This course is the first semester of a full year of Algebra 2. The course begins with a review of Algebra 1 and will progress through advanced Algebra concepts. This course is aligned to the Common Core State Standards, which requires students to critically think about mathematical concepts. Students will complete a project in every module, one of which must be completed collaboratively with a peer virtually. The students are also required to complete a discussion-based assessment before every module test. The content is taught in a variety of ways and every student will be able to learn the lesson using the technique that best matches their learning style. Students will be assessed on their knowledge with both formative and summative activities.

### **ALGEBRA 2B(FVS)**

One Trimester/.5 Credit

**Grades: 9-12**  
**MVUA2BFVS**

*(PREREQUISITE: Algebra 2A)*

This course is the second half of Algebra 2 and will continue the student's journey through advanced Algebra concepts. This course is aligned to the Common Core State Standards, which requires students to critically think about mathematical concepts. Students will complete a project in every module, one of which must be completed collaboratively with a peer virtually. The students are also required to complete a discussion-based assessment before every module test. The content is taught in a variety of ways and every student will be able to learn the lesson using the technique that best matches their learning style. Students will be assessed on their knowledge with both formative and summative activities.

# Online Learning – Michigan Virtual University

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**GEOMETRY A** One Trimester/.5 Credit **Grades: 9-12**  
(*PREREQUISITE:* Algebra 1A and Algebra 1B) **MVUGA**  
This course is the first in a two-course sequence. This Geometry course will take students on an investigational adventure! Students will be asked to explore the relationship between Geometry and the world around them. They will examine spatial relationships, reasoning, connections, and problem solving. Students will work through lessons that encourage them to use interactive activities to question and investigate important Geometry concepts. This course will also assist them in developing fundamental skills necessary for real-world application and critical thinking skills.

**GEOMETRY B** One Trimester/.5 Credit **Grades: 9-12**  
(*PREREQUISITE:* Geometry A) **MVUGB**  
This course is the second in a two-course sequence. This Geometry course will take students on an investigational adventure! Students will be asked to explore the relationship between Geometry and the world around them. They will examine spatial relationships, reasoning, connections, and problem solving. Students will work through lessons that encourage them to use interactive activities to question and investigate important Geometry concepts. This course will also assist them in developing fundamental skills necessary for real-world application and critical thinking skills.

**TRIGONOMETRY** One Trimester/.5 Credit **Grades: 9-12**  
(*PREREQUISITE:* Algebra 2 and Geometry) **MVUT**  
Students completing Trigonometry will gain valuable understanding into the world of triangles and develop skills to solve real world problems. Course material is presented in four ways: graphically, algebraically, numerically and verbally. Students enrolled in Trigonometry should not enroll in Pre-Calculus A.

**PRE-CALCULUS A** One Trimester/.5 Credit **Grades: 9-12**  
(*PREREQUISITE:* Algebra 2 and Geometry) **MVUPCA**  
This course is the first in a two-course sequence and builds on student understanding of functions and mathematical models of real-world phenomena. Course material is presented in four ways: graphically, algebraically, numerically and verbally. The course contains units on functions and math models, periodic functions and right triangles, applications of trigonometric and circular functions, trigonometric function properties, identities, and parametric functions, properties of combined sinusoids, and properties of elementary functions. Students enrolled in Pre-Calculus A should not enroll in Trigonometry.

**PRE-CALCULUS B** One Trimester/.5 Credit **Grades: 9-12**  
(*PREREQUISITE:* Pre-Calculus A) **MVUPCB**  
This course is the second in a two-course sequence and builds on student understanding of functions and mathematical models of real-world phenomena. Course material is presented in four ways: graphically, algebraically, numerically and verbally.

**PROBABILITY & STATISTICS A** One Trimester/.5 Credit **Grades: 9-12**  
(*PREREQUISITE:* Algebra and/or Geometry) **MVUPNSA**  
This course is the first in a two-course sequence. The goal of the course is to provide students with an overview of probability and statistics as well as serving as a fourth year math course.

## Online Learning – Michigan Virtual University

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### **PROBABILITY & STATISTICS B** One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Probability and Statistics A)*

**MVUPNSB**

This course is the second in a two-course sequence. The goal of the course is to provide students with an overview of probability and statistics as well as serving as a fourth year math course.

### **AP CALCULUS AB (SEM 1)** One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Algebra II, Geometry, Trigonometry and Pre-Calculus)*

**MVUAPCAB**

This course is the first semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Calculus AB and covers calculus principles such as derivatives, integrals, limits, approximation, and applications and modeling. Students will gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP CALCULUS AB (SEM 2)** One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: AP Calculus AB Semester 1)*

**MVUAPCABS2**

This course is the second semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Calculus AB and covers calculus principles such as derivatives, integrals, limits, approximation, and applications and modeling. Students will gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP CALCULUS BC (SEM 1)** One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Algebra II, Geometry, Trigonometry and Pre-Calculus)*

**MVUAPCBC**

This course is the first semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Calculus BC and covers calculus principles such as derivatives, integrals, limits, approximation, and applications and modeling. AP Calculus BC covers the same topics as AP Calculus AB plus additional ones. Students will gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

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### **AP CALCULUS BC (SEM 2)**      One Semester/.5 Credit

*(PREREQUISITE: AP Calculus BC Semester 1)*

**Grades: 9-12**  
**MVUAPBCS2**

This course is the second semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Calculus BC and covers calculus principles such as derivatives, integrals, limits, approximation, and applications and modeling. AP Calculus BC covers the same topics as AP Calculus AB plus additional ones. Students will gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP STATISTICS (APEX) SEM 1**      One Semester/.5 Credit

*(PREREQUISITE: Algebra 2)*

**Grades: 9-12**  
**MVUAPSS1**

This course is the first semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Statistics and covers describing data, normal distribution, bivariate data, planning a study and probability. AP Statistics gives students hands-on experience collecting, analyzing, graphing and interpreting real-world data. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP STATISTICS (APEX) SEM 2**      One Semester/.5 Credit

*(PREREQUISITE: AP Statistics Semester 1)*

**Grades: 9-12**  
**MVUAPSS2**


This course is the second semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Statistics and covers binomials and distributions, inference, distribution for means, inference for proportions, inference for tables and least-squares as well as provides final preparation for the AP Statistics Exam. AP Statistics gives students hands-on experience collecting, analyzing, graphing and interpreting real-world data. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

# MONROE HIGH SCHOOL MUSIC EDUCATION DEPARTMENT

## Arts and Communications Career Pathway

The Music Department offers a variety of courses designed to give each student an opportunity to have a personal experience with music in a way which most interests him/her. Some courses will appeal to the student interested in creating or performing music for others. Other courses will appeal to those interested in the personal satisfaction they will gain from the experience. Whatever the reason, the student is encouraged, regardless of past experience, to enroll in a course which fulfills his/her needs. **CLASSES ARE LISTED AS CHORAL MUSIC, GENERAL MUSIC AND INSTRUMENTAL OFFERINGS.**

*Music classes are designed to give each student an opportunity to have a personal experience with music and are recommended for every pathway. Choose the course that speaks to your individual need.*

 A course that is accompanied by this symbol meets the graduation requirements outlined by the Michigan Merit Curriculum (MMC). In addition, all courses in the Music Education Department meet the Visual Performing Applied Arts (VPAA) Graduation Requirements outlined by the Michigan Merit Curriculum (MMC).


### GENERAL MUSIC COURSES

**MUSIC THEORY 1** - One Trimester/.5 Credit

**Grades: 9-12**

*PREREQUISITE: 1 semester Band, Orchestra, Choir, Piano I OR Permission on Instructor*


**170055**

 *Visual, Performing and Applied Arts (VPAA)*

Music Theory students will study the fundamentals of music as it leads to composition. The class is open to students who are already proficient at reading music in at least one clef and who want to gain a greater knowledge of how music is put together. Emphasis will be placed on basic fundamentals, form, chord structure, ear training and composition. This course will give students the tools they need to write their own music and to more fully appreciate and perform music. It is highly recommended for any student who wishes to study music at the college level.

**PIANO 1** – One Trimester/.5 Credit

**Grades: 9-12**

 *Visual, Performing and Applied Arts (VPAA)*

**170085**


This course is open to any student who would like to obtain functional skill on the piano. Students will be introduced to basic elements of rhythm, note names, clefs, meters and musical terminology. Proper fingering, phrasing, dynamics, and expressions will be interjected as well.

**PIANO 2** – One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Instructor Approval)*

**170086**

 *Visual, Performing and Applied Arts (VPAA)*

This course is open to any student who would like to continue their work on the piano. Students will continue to work on the basic elements music including scales and chord progressions and intermediate level repertoire. Students will learn to harmonize melodies in different styles and improvise melodies over a given chord progression.


### CHORAL MUSIC COURSES

**CONCERT CHOIR** – Three Trimesters Preferred; Two Trimesters Required/1 or 1.5 Credits

**Grades: 9-12**

*(PREREQUISITE: Audition)*

**170001, 170002, 170003**

 *Visual, Performing and Applied Arts (VPAA)*

Students interested in Concert Choir must have an audition with the conductor. A certain knowledge of music reading, singing ability and desire to work is required. Class work will consist of learning basic knowledge of



music and musical terminology, as well as occasional staging and choreography. Opportunities will exist for special solo and ensemble work for special projects. Each student will become an integral part of a performing team, learn choral techniques and musical sensitivity, develop a sense of responsibility and cooperation, and have an opportunity for displaying his or her abilities.

**TREBLE CHOIR** – Three Trimesters Preferred; Two Trimesters Required/1 or 1.5 Credits **Grades: 9-12**

 *Visual, Performing and Applied Arts (VPAA)* **170131, 170132, 170133**

This course does not require an audition and is open to all students who have an interest in singing. Students have the option of taking this course each year of high school for the joy of singing. The majority of class time will be spent singing and learning songs directed toward performance. This process will develop skills in choral technique, sight reading, and basic music knowledge. The student will also gain knowledge of the importance of responsibility, dedication and team work. The work in this class will help prepare the student to audition for select ensembles offered by the music department.


**VARSITY CHORUS** – Three Trimesters Preferred; Two Trimesters Required/1 or 1.5 Credits **Grades: 9-12**

**170124, 170125, 170126**

This course does not require an audition and is open to all male singers who have an interest in singing in a men's choir. Students have the option of taking this course each year of high school for the joy of singing. The majority of class time will be spent singing and learning songs directed toward performance. This process will develop skills in choral technique, sight reading, and basic music knowledge. The student will also gain knowledge of the importance of responsibility, dedication and team work. The work in this class will help prepare the student to audition for select ensembles offered by the music department.

**MHS EXPRESSIONS** – Three Trimesters Preferred; Two Trimesters Required/1 or 1.5 Credits **Grades: 10-12**

*(PREREQUISITE: Audition)* **170041, 170042, 170043**

 *Visual, Performing and Applied Arts (VPAA)*

This course is a select group of 20 to 40 women who will perform works which are complex in nature. Membership will be on an audition basis. Students will be trained to semi-professional performance level which will include choral techniques, poise, stage presence, choreography and responsibility as well as dedication to the group. In addition to school concerts, this group will perform in competitions and the community at large.

**GENERATIONS OF SOUND** – Three Trimesters Required / 1.5 Credits

*(PREREQUISITE: Audition)*


**Grades: 11-12**

 *Visual, Performing and Applied Arts (VPAA)* **170021, 170022, 170023**

Generations of Sound is a select group of 20 to 30 singers. The student gains training in top-level music, staging and choreography, and choral techniques. The group develops into a near professional performing ensemble, with students gaining extensive experience as performers in competitions and in public and private concerts. The students will learn responsibility, poise, stagemanship, musical techniques, and dedication. This group also prepares and performs a Madrigal Dinner. An audition with the conductor is required.

## **INSTRUMENTAL MUSIC COURSES**

**CONCERT BAND** – Three Trimesters Preferred; Two Trimesters Required/1 or 1.5 Credits **Grades: 9-12**


 *Visual, Performing and Applied Arts (VPAA)* **170011, 170012, 170013**

Membership in this ensemble is open to all students who have skills to play high school level band literature. Members of the group will also be members in the M.H.S. Trojan Marching Band. Band members will have several responsibilities outside the school day including concerts and concert festivals, and marching at varsity football games, marching festivals, and parades, weekly evening rehearsals in the Fall and two one-week band camps in July and August. All members are expected to serve in both the concert and marching aspects of the group. Membership in this group represents a very high degree of commitment and self-discipline.

**JAZZ BAND** – Two Trimesters/1 Credit

**Grades: 9-12**  
**170031, 170032**


*(PREREQUISITE: Audition and Instructor Approval, and membership in Concert Band and/or Wind Ensemble)*

 *Visual, Performing and Applied Arts (VPAA)*

This is a select group that requires a great deal of dedication and outside effort. The music difficulty and performance standards are very high. Membership also involves performances both in and outside the school day with some travel.

**ORCHESTRA** – Three Trimesters Preferred; Two Trimesters Required/1 or 1.5 Credits

**Grades: 9-12**

 *Visual, Performing and Applied Arts (VPAA)*


**170071, 170072, 170073**

This ensemble is open to all students who have the skill level necessary to play high school level orchestral literature. This class will focus on developing skills in string technique, sight-reading, and basic music knowledge while rehearsing music for the purpose of performance. Students will have the opportunity to work in both large and small groups and participate in MSBOA festivals. Members of this ensemble will be required to participate in performances outside the school day.

**WIND ENSEMBLE** – Three Trimesters Preferred; Two Trimesters Required/1 or 1.5 Credits **Grades: 10-12**

*(PREREQUISITE: Audition)*

**170121, 170122, 170123**


 *Visual, Performing and Applied Arts (VPAA)*

Membership in this ensemble is by audition only. This is a select group of band students who exhibit a high level of ability and dedication to the band program. Members of the group will also be members in the M.H.S. Trojan Marching Band. Band members will have several responsibilities outside the school day including concerts and concert festivals, marching at varsity football games, marching festivals, and parades, weekly evening rehearsals in the Fall and two one-week band camps in July and August. All members are expected to serve in both the concert and marching aspects of the group. Membership in this group represents a very high degree of commitment and self-discipline.

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**MUSIC APPRECIATION: ENJOYMENT OF LISTENING** – One Trimester/.5 Credit **Grades: 9-12**

 *Visual, Performing and Applied Arts (VPAA)*


**MVUMAEOL**

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

# MONROE HIGH SCHOOL PHYSICAL EDUCATION DEPARTMENT


## Health and Human Services Pathway

The Physical Education Program is designed to provide students with opportunities to develop physical skills and conditioning as well as basic knowledge of team and individual life time sports. Gym clothes and gym shoes are required as well as a combination lock for the locker.

 A course that is accompanied by this symbol meets the Graduation Requirements outlined by the Michigan Merit Curriculum (MMC).

### **AEROBICS – One Trimester/.5 Credit**

**Grades: 9-12**

 *This course fulfills one of the graduation requirements outlined by the MMC*

**180015**


This class is for students who want to improve/maintain fitness and tone muscles. Activities include aerobics, step, circuit training, weight training, jogging, fitness walking and jumping rope. Also included: basic fitness concepts and identification of major muscle groups. An aerobic routine will be presented as part of the final grade. A personal body analysis is available. A student taking this course again will benefit by advancing skill level and continuing their overall fitness level.

### **DIVING – One Trimester/.5 Credit**

**Grades: 9-12**

*(PREREQUISITE: Must be able to swim 50 yards without stopping and be able to go to the bottom of the diving pool)*

**180035**

 *This course fulfills one of the graduation requirements outlined by the MMC*


The sequence of instruction in diving develops a basic knowledge of competitive diving including approach, entry, knowledge of body motions, required diving, and optional dives in required categories. The following dives are to be performed at the conclusion of the class: front dive, front pike, front tuck, inward, back dive and forward somersault. A student taking this course again will benefit by advancing skill level and continuing their overall fitness level.

### **HEALTH – One Trimester/.5 Credit**

**Grades: 9-12**

**(This course is a requirement for graduation)**


**180045**

 *This course fulfills one of the graduation requirements outlined by the MMC*

This course is designed to help the student understand the human body and the changes that take place within. This class covers the six basic core concepts as recommended by the Centers for Disease Control's National Health Standards: violence prevention, nutrition, physical activity, tobacco prevention, substance abuse prevention, and sexuality/HIV/STI education. Material is covered through the use of textbooks, movies, demonstrations, discussions, and lectures; therefore, at the beginning of this course a parent notification letter will be sent home. If parents choose to excuse their child from the discussion topics on HIV, reproductive health or sex education an exclusion option is available.

### **PHYSICAL FITNESS 1 – One Trimester/.5 Credit**

**Grades: 9-12**


 *This course fulfills one of the graduation requirements outlined by the MMC*

**180065**

This course is open to anyone interested in becoming more physically fit and maintaining muscle tone while maintaining a healthy weight. It will involve weightlifting, running, and floor exercises. Programs will be provided to develop strength, flexibility, and speed as well as cardio vascular endurance. Physiological testing and measurements will be taken at various intervals to determine progress. Students will be expected to complete all workouts and care for equipment used in a responsible manner. A student taking this course again will benefit by advancing their skill level and continuing their overall fitness level.

**SWIMMING, BEGINNING & INTERMEDIATE** – One Trimester/.5 Credit

**Grades: 9-12**

 *This course fulfills one of the graduation requirements outlined by the MMC*

**180025**


Skills will be adapted for both groups with emphasis on advancing all students to the advanced swimming program. A student taking this course again will benefit by advancing skill level and continuing their overall fitness level.

**SWIMMING, ADVANCED** - One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Advanced Swimming Skills)*


**180005**

 *This course fulfills one of the graduation requirements outlined by the MMC*

This course will include a review of the basic strokes with the addition of stroke variation, over arm side, butterfly, foot first surface dive, dive from the board, endurance swimming, and personal safety skills. Also included will be limited individual lifesaving, water games, recreational contests such as water basketball, volleyball, pom-pom and water polo. A student taking this course again will benefit by advancing skill level and continuing their overall fitness level.

**TEAM SPORTS** – One Trimester/.5 Credit

**Grades: 9-12**


 *This course fulfills one of the graduation requirements outlined by the MMC*

**180085**

This is a COED course taught in the gym or outside (weather permitting) which will consist of invasion games such as flag football, soccer, basketball, speedball, and striking; fielding games such as softball and whiffle ball; net/wall games such as tennis, volleyball, badminton; and health related fitness. Rules and strategies will be taught for each sport. Other team sports may be introduced. A student taking this course again will benefit by advancing their skill and continuing their overall fitness level.

**TEAM SPORTS, ADVANCED** – One Trimester/.5 Credit

**Grades: 11-12**

 *This course fulfills one of the graduation requirements outlined by the MMC*

**180075**

*Eligible to students that want to compete against or work out with other competitive athletes or students who earned a 'C' or higher in Team Sports.*


This course is designed for the motivated advanced varsity athlete. Activities include sports specific skills, power, speed development and agility training. The sports fitness portion of the course will be worked into the daily class activities as part of their overall training. Skill development units may consist of flag football, volleyball, basketball, softball, soccer, and badminton. Strategies and skill transfer will be a focus point. Students repeating this course will benefit by advancing their skill level and overall fitness.

**WATER SPORTS** – One Trimesters/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Beginning/Intermediate or Advanced Swimming)*

**180095**

 *This course fulfills one of the graduation requirements outlined by the MMC*

This course is a WATER based Team Sports class. Emphasis will be placed on aquatic team games and sports in the pool setting such as water polo, water basketball and water volleyball. Rules and strategies will be taught and other aquatic sports may be introduced throughout the trimester. Students will benefit from this class by advancing their swimming skills and continuing their overall fitness level.

## Online Learning – Michigan Virtual University

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### **PERSONAL FITNESS** - One Trimester/.5 Credit

**Grades: 9-12**



*This course fulfills one of the graduation requirements outlined by the MMC*

**MVUPE**

Personal Fitness requires students to participate in weekly cardiovascular, flexibility and strength, and endurance activities. Students who are unable to participate in such physical exercises will be unable to complete the requirements of this course. Personal Fitness is designed to give students the knowledge and desire to establish personal health and fitness programs. The course provides safe, challenging, and enjoyable activities that will allow students to assess and evaluate their lifestyles.

### **HEALTH EDUCATION** - One Trimester/.5 Credit

**Grades: 9-12**




*This course fulfills one of the graduation requirements outlined by the MMC*

**MVUHE**

The course is an interactive exploration of topics surrounding personal health and wellness. The focus of the course is to help students think deeply about issues and also to locate resources should the need for them ever arise. The final exam for this course requires a password which the teacher will email to mentors the last few weeks of the course, or sooner upon request.

# MONROE HIGH SCHOOL SCIENCE DEPARTMENT

## All Career Pathways

 A course that is accompanied by this symbol meets the graduation requirements outlined by the Michigan Merit Curriculum (MMC).

### **ANATOMY AND PHYSIOLOGY** – Two Trimesters/1 Credit

(*PREREQUISITES: Biology and Chemistry or Chemistry in the Community*)


**Grades: 11-12**

**190021, 190022**

This course includes an in-depth study of the structure and function of the human body. Extensive laboratory work will be done including the use of microscopes, dissection, and computer monitoring of bodily functions. Active participation is required. This course is useful to students following the Health Career Pathways who plan on entering the medical and health careers.

### **BIOLOGY A & B** - One Trimester/1 Credit

**Grade: 9**

 This course fulfills one of the graduation requirements outlined by the MMC.

**190160**

This class is double blocked. On Mondays, Wednesdays, and Fridays, classes will be held at the Knabusch Math and Science Center. On Tuesdays and Thursdays, classes will be held at Monroe High School.

This is a fast-paced freshman level course for all incoming 9<sup>th</sup> graders. This course has been designed to cover all of the Michigan Benchmarks for Biology. Students will learn about ecology, cells, genetics, and evolution through the eight characteristics of living things. Students are expected to keep up with daily assignments and participate in a variety of laboratory experiences. Students are also expected to have appropriate clothing and shoes for participating in outdoor activities.

### **BIOLOGY, AP – 1.5 Credits Possible**

**Grades: 10-12**

#### **1<sup>st</sup> & 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional**

**190031, 190032, 190033**

(*PREREQUISITE: Biology with an achieved grade of A or B; Chemistry concurrent with or an achieved grade A or B; and Anatomy and Physiology recommended.*)

*\*\*\*VPAA credit pending approval*

AP Biology is an extremely rigorous college-level course that requires extensive independent study in addition to class participation. Emphasis will be placed in developing the study skills needed to be successful at mastering material to the depth required. The course is centered around the following concepts: macromolecules; ecology; evolution; genetics and genetic engineering; cell communication; bacteria and viruses; DNA replication, transcription, and translation. Students will learn about these concepts through reading a variety of texts, listening to live lectures and watching video lectures, and working in groups to complete labs and other inquiry activities. Furthermore, students will be required to create, conduct, and communicate the results of more open-ended lab investigations. Additionally, there will be a large emphasis on using mathematics in the analysis of experimental results and development of conceptual understanding. Students will need a graphing calculator for this course.

**NOTE: It is highly recommended that all students taking this class pay for and take the Advanced Placement test in Biology at the end of the school year. Successful completion of the test may result in college credit.**


**(See AP requirement on page 5.)**

### **CHEMISTRY** – Two Trimesters/1 Credit

**Grade: 10**


(*PREREQUISITES: Successful completion (“C” or better GPA) of Algebra 1 and Biology*)

**190061, 190062**

 This course fulfills one of the graduation requirements outlined by the MMC.

Chemistry will be presented as a modern science for critical thinkers. This course will be employed as a vehicle for teaching critical thinking skills (problem solving, decision making, analysis, and synthesis) while discussing the following topics: atomic structure, chemical bonding, chemical composition, gas laws, chemical kinetics and stoichiometry. Chemistry education is approached as a hands-on experience. Students will be designing and doing experiments; collecting, reporting and interpreting data; and preparing laboratory reports. Work will be individualized, with lab partners, or in cooperative groups. **Materials: Students are required to maintain a year-long notebook. They should also have a scientific or graphing calculator.**



**CHEMISTRY IN THE COMMUNITY** – Two Trimesters/1 Credit*(PREREQUISITE: Biology)***Grade: 10**  
**190111, 190112** *This course fulfills one of the graduation requirements outlined by the MMC.*

Chemistry in the Community is designed to give students an in-depth look at how chemistry affects their life in many different areas. This course is designed as an inquiry into common issues or problems that are based on chemistry topics. Topics to be investigated include: water resources, chemical resources, petroleum uses and resources, air and climate chemistry. Additional topics that may be covered include: the chemical industry, nuclear chemistry, food chemistry. This course includes several laboratory investigations and will require both individual and cooperative group work. Laboratory investigations include collecting, reporting and interpreting data and applying the new knowledge to students own lives; as well as designing some of their own investigations. Chemistry in the Community will require mathematical calculations, but is not an algebra based chemistry course.

**Materials:** *Students are required to maintain a year-long notebook and will need a calculator.*

**CHEMISTRY, AP** – 1.5 Credits Possible**1<sup>st</sup> & 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional****Grades: 11-12**  
**190041, 190042, 190043**

*(PREREQUISITES: Successful completion (“B” or better GPA) of Algebra 1, Chemistry, and Physics may have been taken previously or concurrently.)*

*\*\*VPAA credit pending approval*

Advanced Placement Chemistry is a rigorous college-level course that requires extensive independent study in addition to class participation. Emphasis will be placed on development of study skills, improving laboratory techniques, collaborating with others, and communicating results. The course material focuses on the following concepts: matter and measurement, atoms, molecules and ions, patterns and trends in the periodic table, chemical reactions, stoichiometry, bonding, chemical equilibrium, acids and bases, oxidation-reduction reactions, thermochemistry, and organic chemistry. Students will learn about these concepts by reading from a variety of texts and outside sources, participating in class discussions, and working in groups to complete labs and other inquiry activities. There will be a large emphasis on using mathematics in the analysis of experimental results and development of conceptual understanding, and writing in-depth laboratory reports. A graphing calculator is recommended for the course.

**NOTE:** *It is highly recommended that all students taking this class pay for and take the Advanced Placement test in Chemistry at the end of the school year. Successful completion of the test may result in college credit.*

**(See AP requirement on page 5.)**

**ECOLOGY** – One Trimester/1 Credit**Grades: 11-12**  
**190305**

*(PREREQUISITES: Successfully completed two years of science credit, which includes Biology and Chemistry or Chemistry in the Community) This class will be double-blocked for one trimester.*

This course will cover ecological topics, including the physical environment, environmental ethics, ecosystem ecology, and freshwater ecosystems. The use of data collection sensors, graphing calculators, and the performance of water quality analysis will be some of the skills learned in the class. Computer skills are necessary. Active participation in the outdoors during various weather conditions is required. This class will be open to all Monroe County high schools, and will be taught at the Knabusch Mathematics & Science Center. Bus transportation for MPS students will be provided every day of class.

**ENVIRONMENTAL, AP – 1.5 Credits Possible**  
**1<sup>st</sup> & 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional**

**Grades: 11-12**  
**190131, 190132, 190133**

*(PREREQUISITES: Successful completion of Biology, Chemistry and Geometry.)*

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. **(See AP requirement on page 5.)**

**FORENSIC SCIENCE – One Trimester/.5 Credit**

**Grades: 10-12**

**(PREREQUISITE: Biology, Algebra 1)**

**190805**


This Forensic Science Course will focus on crime scene investigation techniques. This includes evidence collection and detailed scientific analysis, along with advanced observation skills. Students will learn various important techniques used to analyze crime scene evidence and practice some of those techniques. There is a heavy emphasis on scientific reasoning skills in this course. There is a significant amount of group work in this course. Each group of students will create imaginary crimes and crime scenes for the other groups of students to investigate and solve. Students will be responsible for attempting to solve the crimes designed by the other groups and presenting their scientific findings to the entire class.

**PHYSICAL SCIENCE – Two Trimesters/1 Credit**

**Grade: 11**

*(PREREQUISITE: Chemistry or Chemistry in the Community, Algebra 1)*

**190121, 190122**

 *This course fulfills one of the graduation requirements outlined by the MMC*

This Physical Science course boosts student success by first building a solid conceptual understanding of physics. Physical Science uses meaningful examples and hands-on activities, which builds an understanding of the principles of physics through engaging explanations, demonstrations, labs, concept-development exercises, and thought-provoking questions. Students then apply what they know through laboratory work, mathematical problem-solving, and discussions of critical-thinking questions.

**PHYSICS – Two Trimesters/1 Credit**

**Grade: 11**

*(PREREQUISITE: Proficiency in Algebra 1) [C or better] (COREQUISITE: 2 Tri Math 3)* **190151, 190152**

 *This course fulfills one of the graduation requirements outlined by the MMC.*

This is a college level course open to juniors who are proficient in mathematics. Physics is the study of the mathematical models of how the world works and is the basis for all science and engineering. Topics include motion, forces, work/energy, light, sound and more.

**PHYSICS, AP – 1.5 Credits Possible**

**Grade: 12**

**1<sup>st</sup> & 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional**

**190051, 190052, 190053**

*(PREREQUISITE: Physics) (COREQUISITE: Pre-Calculus, Trigonometry, or Calculus AB/BC)*

This is an equivalent of a standard college general physics course. Topics covered in first year physics are studied in greater depth with an emphasis on using evidence to support physical principles. The course will prepare students for the Advanced Placement Physics I, Mechanics Test.

*Note: It is highly recommended that all students taking this class pay for and take the Advanced Placement test for Physics I, Mechanics at the end of the school year. Successful completion of the test may result in college credit.*

## SCIENCE TUTORIAL I AND II

(Core Teacher and Guidance Counselor Recommendation and Approval.)

**Grades: 10-12**  
**Tutorial I: 190175**  
**Tutorial II: 190185**

Applications will be available in the Student Services Department. Pre-approval is required from the applicant's core curriculum teacher. Final approval will be made by the guidance counselor and the assigned core teacher. Students will practice their core knowledge, observe student behaviors as related to learning, discover and utilize teaching strategies that are effective, practice community service, develop a deeper social conscience regarding their peers, apply critical thinking skills to determine how to assist students with learning gaps, develop and improve communication skills, and encourage their tutees to become independent learners. Students will be graded on journal entries, weekly evaluations and feedback from the core teacher, a self assessment of learning, an assessment by their tutees and a final essay.

### Online Learning – Michigan Virtual University

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#### **PHYSICAL SCIENCE A - One Trimester/.5 Credit**

**Grades: 9-12**  
**MVUPSA**

This is the first course in a two-course sequence. This course emphasizes scientific thinking as a way of understanding natural phenomenon as it covers topics such as energy and motion, Newton's laws, simple machines, and waves, and electricity. There will be numerous opportunities for students to dialog with each other about scientific theory and practice. In addition, there will be both simulated and real world laboratory experiences to further expand students' scientific horizons.

#### **PHYSICAL SCIENCE B - One Trimester/.5 Credit**

(*PREREQUISITE*: Physical Science A.)

**Grades: 9-12**  
**MVUPSB**

This is the second course in a two-course sequence. This course emphasizes scientific thinking as a way of understanding natural phenomenon as it covers topics such as matter and interaction with matter, atomic structure and periodic table, chemical bonds, and elemental properties. There will be numerous opportunities for students to dialog with each other about scientific theory and practice. In addition, there will be both simulated and real world laboratory experiences to further expand students' scientific horizons.

#### **EARTH SCIENCE A - One Trimester/.5 Credit**

**Grades: 9-12**  
**MVUESA**

This is the first session of a two-session course. Earth Science A is the study of the earth we live on, inside and out. Through various media, interactive web sites, video viewing and several hands-on lab activities, including the award-winning Smart Science labs, students will learn the content and be able to apply their knowledge to answer thought-provoking questions using scientific method and reasoning. The student will also learn how the content applies to them and how it affects their everyday lives. Students will also be doing a few hands-on experiments that will require minimum purchases and some adult supervision.

#### **EARTH SCIENCE B - One Trimester/.5 Credit**

(*PREREQUISITE*: Earth Science A.)

**Grades: 9-12**  
**MVUESB**

This is the second course in a two-course sequence. Earth Science offers a focused curriculum that explores Earth's composition, structure, processes and history; its atmosphere, freshwater and oceans; and its environment in space. Course topics include laying the groundwork; the movers and shakers; minerals and rocks; all the time in the world; and earth's resources.

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**ASTRONOMY** - One Trimester/.5 Credit

**Grades: 9-12**  
**MVUA**

Astronomy provides a broad overview of all topics in astronomy for the beginner. The course provides a foundation to the science of astronomy including motions in the night sky and the tools of modern astronomy. It contains the most up-to-date science about our solar system, stars and galaxies. Astronomy also explores the exciting prospects for future discovery in astronomy including life in the universe and the mysteries that continue to perplex astronomers. The course provides an engaging combination of videos, interactive media, photo galleries and readings so that students can explore the content in a variety of ways.

**HUMAN SPACE EXPLORATION** - One Trimester/.5 Credit

**Grades: 9-12**  
**MVUHSE**

In 1957, the space age was launched with the 98-minute orbit of the Earth by the Russian (then known as the Union of Soviet Socialist Republics) satellite Sputnik. The launch of that basketball-sized satellite is considered the “Dawn of the Space Age.” A year after Sputnik’s historic orbit, the United States created the National Aeronautics and Space Administration (NASA). Since, then over 100 nations have conducted space research providing mankind with new information about the Earth and space. This one-semester course provides students with a history of space exploration and an overview of the scientific discoveries that have resulted from man’s exploration of space.

**OCEANS AND ECOSYSTEMS** - One Trimester/.5 Credit

**Grades: 9-12**  
**MVUOAE**

This course is designed to familiarize students with the basic concepts of oceanography and develop an understanding of marine ecosystems. Topics include water and differences, ocean ecosystems, circulation, resources and air/water interaction.

**OCEANOGRAPHY A** - One Trimester/.5 Credit

**Grades: 9-12**  
**MVUOA**

This is the first course in a two-course sequence and provides an excellent opportunity for students to gain knowledge about the physical and chemical structures of both salt and freshwater ecosystems. This course is interdisciplinary by way of explorations of various topics, providing an assortment of hands-on labs and video field trips. Oceanography encourages students to evaluate the appropriate kinds of research that are related to both natural and environmental issues.

**OCEANOGRAPHY B** - One Trimester/.5 Credit

**Grades: 9-12**  
**MVUOB**

*(PREREQUISITE: Oceanography A.)*

This is the second course in a two-course sequence. The oceans constitute the single largest repository of organisms on the planet. Oceanography B provides an excellent opportunity to gain knowledge about the biological factors of both salt and freshwater ecosystems. This course is interdisciplinary by way of explorations of various topics, providing an assortment of hands-on labs and video field trips. Oceanography encourages students to evaluate the appropriate kinds of research that are related to both natural and environmental issues.

**ENVIRONMENTAL SCIENCE A** - One Trimester/.5 Credit

**Grades: 9-12**  
**MVUESCA**

This is the first course in a two-course sequence. The course focuses on an introduction to environmental science including understanding the importance of ecosystems, biodiversity, and natural resources. Factors that cause pollution, loss of biodiversity, and resource depletion within ecosystems are also introduced.

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### **ENVIRONMENTAL SCIENCE B** - One Trimester/.5 Credit

(*PREREQUISITE*: Environmental Science A.)

**Grades: 9-12**

**MVUESCB**

This is the second course in a two-course sequence. Water quality, water diversion, water pollution and water levels are important environmental issues that affect everyone in Michigan. Water is just one of the issues touched on in Environmental Science B. In this course, students will draw conclusions about various environmental issues, including soil and land issues, renewable and non-renewable energy sources, waste, toxicology, environmental health, greenhouse gasses, species extinction, and world population growth. Students will also research an environmental issue of interest. The final exam must be proctored.

### **FORENSIC SCIENCE (INTRODUCTION)** - One Trimester/.5 Credit

(*PREREQUISITE*: 9<sup>TH</sup> grade Reading level.)

**Grades: 9-12**

**MVUFSI**

The course is designed to introduce students to the application of science to criminal investigation. Chemistry, biology, earth science and a brief mention of physics are included. As students work through the lessons, they will learn the scientific background to forensic tests and then apply their knowledge through exercises, case studies and a final case that encompasses all topics introduced throughout the term.

### **FORENSIC SCIENCE (ADVANCED)** - One Trimester/.5 Credit

(*PREREQUISITE*: Forensic Science Introduction.)

**Grades: 9-12**

**MVUFSA**

Advanced Forensic Science continues the study of crime scene reconstruction, evidence collection and interpretation of data started in Introduction to Forensic Science. Students will learn to interpret measurements taken at crime scenes and use that information to reconstruct the crime, work with drawing software in developing a crime scene sketch, determine the direction of impact, and interpret accident data. The course introduces computer forensics and internet crimes as well as addresses internet safety.

### **BIOLOGY A** - One Trimester/.5 Credit

**Grades: 9-12**

**MVUBA**

This course is the first in a two-course sequence, and is an interactive, activity-packed course. The course begins by teaching students to “think like a scientist” before moving on to exploring cell biology and an introduction to genetics. Each topic is introduced with an audiovisual presentation to bring a real-life feel to the course. Students demonstrate understanding of the material throughout the course via virtual lab exercises, written assignments, quizzes and unit exams.

### **BIOLOGY B** - One Trimester/.5 Credit

(*PREREQUISITE*: Biology A)

**Grades: 9-12**

**MVUBB**

This course is the second in a two-course sequence, and is an interactive, activity-packed course. The course begins with a look at the molecules of life, including the DNA molecule before moving on to living organisms and their interactions within ecosystems. The course ends with a focus on natural selection and the changes that occur in organisms over long periods of time. Each topic is introduced with an audiovisual presentation to bring a real-life feel to the course. Students demonstrate understanding of the material throughout the course via virtual lab exercises, written assignments, quizzes and unit exams.

## Online Learning – Michigan Virtual University

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### **BIOETHICS – One Trimester/.5 Credit**

**Grades: 9-12**  
**MVUBIO**

Bioethics is a rigorous, one-semester course designed to raise the consciousness of students regarding the social and ethical implications of life science, medicine and technology. This course is for 11th- and 12th-graders who are seeking improvement in their critical thinking skills. It is designed to create complex thinkers capable of using a variety of strategies and higher-order thinking skills appropriate to the resolution of highly controversial medical and technological dilemmas, including the use of animals in medical research and genetic engineering.

### **ANATOMY & PHYSIOLOGY A - One Trimester/.5 Credit**

*(PREREQUISITE: Biology and Chemistry)*

**Grades: 9-12**  
**MVUANPA**

This course is the first in a two-course sequence. This course presents a fascinating, in-depth exploration of the structure and function of the human body. The course will use a systems approach and will emphasize how organs and body systems work together to carry on complex processes. Concepts and principles will be related to familiar health issues, problems and experiences we face as humans. Upon completion of this course, students will have a thorough understanding of the human body and how its parts work together to maintain the delicate equilibrium of life.

### **ANATOMY & PHYSIOLOGY B - One Trimester/.5 Credit**

*(PREREQUISITE: Anatomy & Physiology A)*

**Grades: 9-12**  
**MVUANPB**

This course is the second in a two-course sequence. This course presents a fascinating, in-depth exploration of the structure and function of the human body. The course will use a systems approach and will emphasize how organs and body systems work together to carry on complex processes. Concepts and principles will be related to familiar health issues, problems and experiences we face as humans. Upon completion of this course, students will have a thorough understanding of the human body and how its parts work together to maintain the delicate equilibrium of life.

### **CHEMISTRY A- One Trimester/.5 Credit**

**Grades: 9-12**  
**MVUCHEMA**

This course is the first in a two-course sequence. Students will work in their own kitchens and online to explore the concepts they are researching. Things will fizz, expand and freeze right before their eyes. Students will complete “real” labs online using award winning Smart Science Labs that cement the procedures required from the scientific community. Chemistry will also include many interactive elements along with Gizmos (learning interactives) and instructional videos. Chemistry is all around us, and this course will open students' eyes to all aspects of chemistry.

### **CHEMISTRY B- One Trimester/.5 Credit**

*(PREREQUISITE: Chemistry A)*

**Grades: 9-12**  
**MVUCHEMB**

This course is the second in a two-course sequence. Students will work in their own kitchens and online to explore the concepts they are researching. Things will fizz, expand and freeze right before their eyes. Students will complete “real” labs online using award winning Smart Science Labs that cement the procedures required from the scientific community. Chemistry will also include many interactive elements along with Gizmos (learning interactives) and instructional videos. Chemistry is all around us, and this course will open students' eyes to all aspects of chemistry.



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### **PHYSICS A - One Trimester/.5 Credit**

**Grades: 9-12**  
**MVUPHYA**

This is the first course in a two-course sequence. The science of physics involves the discovery of patterns and relationships in natural phenomena. As students' progress through this interactive course, they will be introduced to familiar situations from a new perspective. They will learn to explain, according to the laws of physics, events that occur in the world around them. Through text, graphics, interactive simulations, Smart Science Labs, Gizmos and many instructional videos they will investigate straight-line motion, motion in two dimensions, rotational motion, energy, relativity, properties of matter, change of state, and heat and temperature.

### **PHYSICS B - One Trimester/.5 Credit**

**Grades: 9-12**  
**MVUPHYB**

*(PREREQUISITE: Physics A)*

This is the second course in a two-course sequence. The science of physics involves the discovery of patterns and relationships in natural phenomena. As students' progress through this interactive course, they will be introduced to familiar situations from a new perspective. They will learn to explain, according to the laws of physics, events that occur in the world around them. Through text, graphics, interactive simulations, Smart Science Labs, Gizmos and many instructional videos they will investigate straight-line motion, motion in two dimensions, rotational motion, energy, relativity, properties of matter, change of state, and heat and temperature.

### **AP ENVIRONMENTAL SCIENCE A - One Semester/.5 Credit**

**Grades: 9-12**  
**MVUAPESA**

*(PREREQUISITE: Algebra I and two years of high school laboratory science courses)*

This course is the first semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Environmental Science and acquaints students with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the inter-relationships between humans and the natural environment. The course shows how ecological realities and the material desire of humans often clash, leading to environmental degradation and pollution. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP ENVIRONMENTAL SCIENCE B - One Semester/.5 Credit**

**Grades: 9-12**  
**MVUAPESB**

*(PREREQUISITE: AP Environmental Science A)*

This course is the second semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Environmental Science and acquaints students with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the inter-relationships between humans and the natural environment. The course shows how ecological realities and the material desire of humans often clash, leading to environmental degradation and pollution. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

## Online Learning – Michigan Virtual University

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### **AP BIOLOGY A - One Semester/.5 Credit**

*(PREREQUISITE: Biology, Chemistry, Algebra 1)*

**Grades: 9-12**  
**MVUAPBIOA**

This course is the first semester of a two-semester sequence, aligned to the Advanced Placement curriculum for Biology. The course provides an overview of cell biology, evolution, genetics, ecology, as well as the structure and function of plant and animal systems. In AP Biology, students build the conceptual framework necessary to understand science as a process. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP BIOLOGY B - One Semester/.5 Credit**

*(PREREQUISITE: AP Biology A)*

**Grades: 9-12**  
**MVUAPBIOB**

This course is the second semester of a two-semester sequence, aligned to the Advanced Placement curriculum for Biology. The course provides an overview of cell biology, evolution, genetics, ecology, as well as the structure and function of plant and animal systems. In AP Biology, students build the conceptual framework necessary to understand science as a process. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP CHEMISTRY-DRY LABS A (EDMENTUM) One Semester/.5 Credit**

*(PREREQUISITE: Successful completion of Algebra 1 provides the mathematical skills students need for Advanced Chemistry. In addition, they should have a good working understanding of inquiry science methods, including:*

**Grades: 9-12**  
**MVUAPCDLA**

- Experimental design, including the importance of experimental controls.
- Basic data analysis skills, including the ability to interpret mathematical patterns from data tables and graphs.
- The ability to use experimental results and/or real data sets to propose general rules.
- General Skills: To participate in this course, students should be able to do the following:
  - Complete basic operations with word processing software, such as Microsoft Word or Google Docs.
  - Perform online research using various search engines and library databases.
  - Communicate through email and participate in discussion boards.)

This is the first semester of a full year of AP Chemistry-dry labs.

The Advanced Chemistry course is designed around the AP Chemistry Curriculum Framework established by the College Board. The course is presented through the lens of scientific inquiry — the process of channeling human curiosity into purposeful exploration, discovery, and application of observable natural phenomena. In this course, students will grow to understand their physical world in a deep way. At the same time, an inquiry and STEM oriented approach to chemistry offers students a shared method of asking questions about the world around them. Their experience and knowledge from this course tied to a strong emphasis on qualitative and quantitative analysis and communication is designed to enable them to understand important scientific and societal problems and to creatively grapple with such problems.

## Online Learning – Michigan Virtual University

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### **AP CHEMISTRY-DRY LABS B (EDMENTUM) One Semester/.5 Credit**

**Grades: 9-12**

*(PREREQUISITE: Successful completion of AP Chemistry-dry labs Sem 1.)*

**MVUAPCDLB**

This is the second semester of a full year of AP Chemistry-dry labs.

The Advanced Chemistry course is designed around the AP Chemistry Curriculum Framework established by the College Board. The course is presented through the lens of scientific inquiry — the process of channeling human curiosity into purposeful exploration, discovery, and application of observable natural phenomena. In this course, students will grow to understand their physical world in a deep way. At the same time, an inquiry and STEM oriented approach to chemistry offers students a shared method of asking questions about the world around them. Their experience and knowledge from this course tied to a strong emphasis on qualitative and quantitative analysis and communication is designed to enable them to understand important scientific and societal problems and to creatively grapple with such problems.

### **AP PHYSICS B (SEMESTER 1) One Semester/.5 Credit**

**Grades: 9-12**

*(PREREQUISITE: Pre-Calc, Calculus)*

**MVUAPPBS1**

This course is the first semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Physics B and covers five major curricular areas: Newtonian mechanics, fluids and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP PHYSICS B (SEMESTER 2) One Semester/.5 Credit**

**Grades: 9-12**

*(PREREQUISITE: AP Physics B (Sem 1)*

**MVUAPPBS2**

This course is the second semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Physics B and covers five major curricular areas: Newtonian mechanics, fluids and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP PHYSICS C (SEMESTER 1) One Semester/.5 Credit**

**Grades: 9-12**

*(PREREQUISITE: Physics and Calculus)*

**MVUAPPCS1**

This course is the first semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Physics C and is the equivalent of the first semester of an introductory calculus-based college-level physics course for science and engineering majors. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

## Online Learning – Michigan Virtual University

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**AP PHYSICS C (SEMESTER 2)** One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: AP Physics C – Mechanics (Sem 1))*

**MVUAPPCS2**

This course is the second semester of a two-semester sequence. The course is aligned to the Advanced Placement curriculum for Physics C and is the equivalent of the first semester of an introductory calculus-based college-level physics course for science and engineering majors. The course emphasizes problem solving including the use of calculus. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### MONROE HIGH SCHOOL SOCIAL STUDIES DEPARTMENT

#### All Career Pathways

The Social Studies curriculum is designed to help all students gain knowledge about an understanding of man and his societies, both past and present. Students will acquire the skills needed to form values and attitudes that can be translated into effective and responsible social behavior.

Offered are courses which cover the basic disciplines of U.S. History & Geography, Civics, Economics, World History & Geography. Students are reminded that one (1) full credit is required in each of the following courses: U.S. History & Geography, Civics (.5) and Economics (.5), World History & Geography

In the **freshmen year**, students have two choices: **US History or AP US History**. AP US History is for students who are considering earning college credit while earning high school credit. This is an academically accelerated course that is college rigor.

In the **sophomore and junior year**, students have the option to take **World History or AP World History**. AP World History is for students who are considering earning college credit while earning high school credit. This is an academically accelerated course that is college rigor.



A course that is accompanied by this symbol meets the Graduation Requirements outlined by the Michigan Merit Curriculum (MMC).

**CHARACTER AND LEADERSHIP DEVELOPMENT** – One trimester/.5 Credit

**Grades: 9-12**

**200065**

The main objective of this course is to improve character and leadership traits by developing critical thinking, building basic skills, emphasizing positive changes in attitude and promoting essential components of character and leadership. To accomplish this objective, students will complete readings about positive role models each week, and successful community leaders will speak to the class about their achievements, failures and life lessons. The

instructor will utilize various forms of pop culture to demonstrate core components of character traits. Students will be given different opportunities to apply the concepts of the course to their personal lives, academic disciplines, and future goals. A considerable amount of time will be spent teaching traits, including but not limited to, respect, responsibility, tolerance, honesty, integrity, perseverance, courage, self-control and appreciation. Students will discuss and reflect on their personal values, beliefs and attitudes while respecting and appreciating the viewpoint of others.

**CIVICS – One Trimesters/.5 Credit**

**Grade: 10**



*This course fulfills one of the graduation requirements outlined by the MMC.*

**200205**

This course introduces students to the study of local, state, and federal government and economics. The major emphasis of this course is the basic structure and function of our republic. An important aspect of this course is to develop a well-informed, intelligent citizen who will become an active participant in our democratic society. Finally the course will provide basic knowledge of the core democratic values and constitutional principles which will allow them to put their understanding of democracy in perspective.

**ECONOMICS—One Trimester/ .5 Credit**

**Grade: 10**



*This course fulfills one of the graduation requirements outlined by the MMC.*

**200305**

Productive members of society must understand basic economic concepts such as scarcity, costs, and benefits in order to make sound individual economic decisions. Students will apply these basic economic concepts as they evaluate the consequences of public policy decisions. This course will help students function as consumers, savers, investors, and responsible citizens.

**FAMOUS AMERICANS – One Trimester/.5 Credit**

**Grades: 9-12**

**200015**

This course will examine the lives of various famous Americans; their lifestyles, their experiences, their accomplishments, and their contributions to American society. This will be a project and research based course that focuses on different groups of people such as women, minorities, athletes, musicians/artists/writers, scientists/inventors, politicians, crooks/criminals, and heroes.

**GLOBAL CONFLICT IN THE MODERN ERA – One Trimester/.5 Credit**

**Grades: 9-12**

**200025**

As many as twenty-five wars are taking place on our planet at any given moment. The number of countries possessing nuclear and other high tech weaponry is growing. In this course we will focus on the reason such conflicts occur in the hope that this knowledge will lead to solutions. Topics will include the impact of future water and oil shortages; nuclear, chemical and biological weapons; just war theory; the media's role during a conflict; landmines; and terrorism.

**HISTORY VS. HOLLYWOOD – One Trimester/.5 Credit**

**Grades: 9-12**

**200035**

This course will examine different periods of American history through film. Students will view various films and research the validity of each film. Did things happen as they appeared in the film? Does Hollywood glamorize historical figures and events? Can you believe what you see? This is a research based course. Some of the movies used to demonstrate historical perspective may be controversial. Parents will be required to sign a permission slip before the student may register for this course. The list of movies that may be shown, either in clips or in entirety, is available upon request.

**HUMAN RIGHTS AND GENOCIDE – One Trimester/.5 Credit**

**Grades: 10-12**

**200275**

This hybrid course explores the origin and nature of human rights, their relationship with civil rights, and the violations of these rights. Topics examined include, but are not limited to: freedom of speech and its consequences, freedom to assemble and its consequences, political protest, human trafficking, nationalist

movements, apartheid, genocide and ethnic cleansing, foreign intervention and humanitarian aid, and the global role of the United Nations and Peacekeeping.

**MOCK TRIAL** – One trimester/.5 Credit

**Grades: 11-12**  
**200045**

Do you like to argue and debate? This is the class for you! Mock Trial is a simulation class which allows students to research, prepare and argue important issues. **This class is offered every other school year.**

**PSYCHOLOGY** – One Trimester/.5 Credit

**Grades: 10-12**  
**200075**

Psychology is a trimester course exploring human behavior. The following areas will be covered: human development concentrated mainly on adolescence and adulthood, individual differences, personality development; applying psychology to individual human problems.

**PSYCHOLOGY, ADVANCED** – One Trimester/.5 Credit

**Grades: 11-12**  
**200005**

*(PREREQUISITES: "C" or better in Psychology)*

Advanced Psychology is a trimester course designed for 11<sup>th</sup> and 12<sup>th</sup> grade students who have human service occupation career interests. The following areas will be covered: abnormal behavior and treatment, insanity and the law, biology and behavior.

**SOCIAL STUDIES TUTORIAL I AND II**

**Grades: 10-12**

*(Core Teacher and Guidance Counselor Recommendation and Approval.)*

**Tutorial I: 200225**

**Tutorial II: 200235**

Applications will be available in the Student Services Department. Pre-approval is required from the applicant's core curriculum teacher. Final approval will be made by the guidance counselor and the assigned core teacher. Students will practice their core knowledge, observe student behaviors as related to learning, discover teaching strategies that are effective, practice community service, develop a deeper social conscience regarding their peers, apply critical thinking skills to determine how to assist students with learning gaps, develop and improve communication skills, and encourage their tutees to become independent learners. Students will be graded on journal entries, weekly evaluations and feedback from the core teacher, a self assessment of learning, an assessment by their tutees and a final essay.

**SOCIOLOGY** – One Trimester/.5 Credit

**Grades: 9-12**  
**200105**

Sociology is the study of human society and group behavior. Studying sociology can help you to gain a new perspective for looking at yourself and the world. This interesting course covers topics such as the following: cultural diversity, American value system, social control, social change, conflict and cooperation, personality development, teenagers and dating, adolescence, the world of work, deviance and crime, poverty and the class system, race relations, gender inequality, age discrimination, family, education, religion, sports, population and urbanization, social change, and modernization.

**STUDENT COUNCIL** – Three Trimesters/1.5 Credits

**Grades: 9-12**

*(PREREQUISITE: Teacher Approval Required)*


**200091, 200092, 200093**


A student is selected for this course with the approval of the Student Council Selection Committee. Students interested in the class must fill out an application. Applications are available in the spring of each year. Student Council officers are voted on by the student body. Students will receive a mid-term and final evaluation. Students who receive a satisfactory evaluation will remain in the class. Monroe High School Student Council provides the student with the opportunity to participate in the government and policy making process of Monroe High School. It gives students the opportunity to enhance leadership skills, organize and participate in school activities and community service.



**SWEATSHOPS, LAYOFFS, SNEAKERS, AND YOU – One Trimester/.5 Credit** **Grades: 11-12**  
**200055**  
Why are your sneakers so expensive, when they cost pennies to make? Where are your jobs going? Who produces the products you buy? This course will introduce you to issues related to globalization.


**UNDERSTANDING THE LAW – One Trimester/.5 Credit** **Grades: 9-12**  
**200095**  
This course will provide you with a general understanding of your legal rights and responsibilities, a knowledge of everyday legal problems, and the ability to analyze, evaluate and resolve legal disputes. This course covers such topics as: the court system, lawyers, crime against person and property, prosecution and defense, the criminal justice process, juvenile justice, civil lawsuits, contracts, warranties, credit, being a smart consumer, housing law, marriage, parents and children, divorce, constitutional rights, and victims of crime.

**U. S. HISTORY & GEOGRAPHY A – One Trimesters/.5 Credit** **Grade: 9**  
 *This course fulfills one of the graduation requirements outlined by the MMC.* **200011**  
This course is designed to investigate the history and culture of different ethnic, racial, and socio-economic groups within the framework of American History from 1870 to 1940. The following themes will be taught: Industrialization, Immigration, Imperialism, Progressive Era, World War 1, the 1920's, and the Great Depression.

**U. S. HISTORY & GEOGRAPHY B – One Trimester/.5 Credit** **Grade: 9**  
*PREREQUISITE: U.S. History A* **200012**  
 *This course fulfills one of the graduation requirements outlined by the MMC.*  
This course is designed to investigate the history and culture of different ethnic, racial, and socio-economic groups within the framework of American History from 1940 to the present. Themes will include World War II, Post-War America, the Cold War, Civil Rights, and Post-Cold War.


**AP U.S. HISTORY – 1.5 Credits Possible** **Grade: 9**  
1<sup>st</sup> and 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional **222011—Trimester 1**  
9<sup>th</sup> Grade — The year-long AP U.S. History course satisfies the US History graduation **222012—Trimester 2**  
requirement and is designed to develop students' understanding of American history **222013—Trimester 3**  
from approximately 1491 to the present. Students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, developing and using the same critical thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) used by historians when they study the past. Students explore seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) in order to make connections among historical developments in different times and places. Pending Board Approval

Note: It is highly recommended that all students taking this course complete all three trimesters and take the advanced placement test at the end of the school year. Successful completion of the test may result in college credit. (See AP requirements on Page 5)

**WORLD HISTORY & GEOGRAPHY A – One Trimester/.5 Credit** **Grade: 11**  
 *This course fulfills one of the graduation requirements outlined by the MMC.* **200211**  
World History takes a global and comparative approach to studying the world and its past to develop greater understanding worldwide events, processes, and interactions among the world's people, cultures, societies, and environment. The course will begin with the fall of the Roman Empire, and end with the first global age. The course will investigate our diverse and common traditions, and work toward an understanding of the complex interactions among various environmental, human and social forces that influence us.

**WORLD HISTORY & GEOGRAPHY B – One trimester/.5 Credit**

**Grade: 11**

 *This course fulfills one of the graduation requirements outlined by the MMC.*

**200212**

World History takes a global and comparative approach to studying the world and its past to develop greater understanding worldwide events, processes, and interactions among the world’s people, cultures, societies, and environment. This course will begin with the age of absolutism and conclude in the present day. The course will investigate our diverse and common traditions, and work toward an understanding of the complex interactions among various environmental, human and social forces that influence us.

**AP WORLD HISTORY – 1.5 Credits Possible**

**Grade: 10-11**

(1<sup>st</sup> and 2<sup>nd</sup> Trimester Required; 3<sup>rd</sup> Trimester Optional)

**222211—Trimester 1**

10<sup>TH</sup> OR 11<sup>TH</sup> Grade -- The year-long AP World History course satisfies the

**222212—Trimester 2**

World History graduation requirement and is designed to develop students’

**222213—Trimester 3**

understanding of world history from approximately 8000 BCE to the present. Students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, developing and using the same critical thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological and argumentation) used by historians studying history. Students explore five themes (interaction between humans and their environment; development and interaction of cultures; state building, expansion and conflict; creation, expansion, and interaction of economic systems; development and transformation of social structures) in order to make connections among historical developments in different times and places in the five major geographical regions of the world (Africa, the Americas, Asia, Europe, Oceania).

Pending Board Approval

Note: It is highly recommended that all students taking this course complete all three trimesters and take the advanced placement test at the end of the school year. Successful completion of the test may result in college credit. (See AP requirements on Page 5)

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

**CIVICS**                      One Trimester/.5 Credit                      **Grades: 9-12**  
**MVUCIV**

Civics teaches students about their individual rights as citizens. To understand the responsibilities that come with this privilege, Civics focuses on the following central themes: Principles of Democracy, Foundations of American Government, Rights and Responsibilities of Citizens, State and Local Government, The Political Process and Challenges in Today's World. While similar to an American Government class, this class will focus less on the structure of government and more on the impact of the individual, especially at the local and state levels of government.

**ECONOMICS (FVS)**                      One Trimester/.5 Credit                      **Grades: 9-12**  
*(PREREQUISITE: English 9 and Algebra 1)*                      **MVUEFVS**

Economic decisions affect us every day of our lives. Understanding economics means thinking about how scarcity, or limited resources, requires us to make choices and evaluate one option against others. In this course, you will recognize examples of economics in your daily life. You will see how the economic choices of larger groups, like businesses and governments, affect you and others. As you progress through the course, you will recognize that the costs and benefits of choices connect individuals and groups around the world. The purpose of this course is to help you become a smart consumer who understands the flow of an economy between individuals, businesses, governments, and the rest of the world.

**SOCIOLOGY A (FVS)**                      One Trimester/.5 Credit                      **Grades: 9-12**  
**MVUSAFVS**

This is the first semester of a two semester course FLVS explains; “The world is becoming more complex. How do your beliefs, values and behavior affect the people around you and the world we live in? In this increasingly connected world, students will examine problems in our society and learn how human relationships can influence the life of the student. Exciting online video journeys to different areas of the world are also presented in the course”.

**SOCIOLOGY B (FVS)**                      One Trimester/.5 Credit                      **Grades: 9-12**  
**MVUSBFVS**

This is the second semester of a two semester course. Per FLVS: “Sociology is the study of people, social life and society. The development of a sociological imagination will enable students to examine how society shapes human actions and beliefs, and how such actions and beliefs in turn shape society. Exciting online video journeys to different areas of the sociological world are also presented in the course.

**US HISTORY A**                      One Trimester/.5 Credit                      **Grades: 9-12**  
*(PREREQUISITE: English 9)*                      **MVUUSHA**

The United States began as an experiment in freedom and democracy. Since its establishment, the country and its people have endured social, political and economic revolutions. In this course, students will investigate the people, events and ideas that have shaped the United States from the end of the Civil War through today. Students are asked to analyze and evaluate decisions made by political, business and military leaders. Emphasis is placed on connections between events of the past and present. This course also gives students the opportunity to conduct research and apply their learning to current, real-world problems.

## Online Learning – Michigan Virtual University

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**PSYCHOLOGY (FVS)**                      One Trimester/.5 Credit                      **Grades: 9-12**  
**MVUPFVS**

Psychology is the study of the human mind and behavior. You will examine why you behave the way you do, how you think, and what causes you to act and feel the way you do. In addition, the different branches of psychology, theoretical approaches, the history of psychology, as well as research methods will be examined.

**US HISTORY B**                      One Trimester/.5 Credit                      **Grades: 9-12**  
*(PREREQUISITE: English 9)*                      **MVUUSHB**

The United States began as an experiment in freedom and democracy. Since its establishment, the country and its people have endured social, political and economic revolutions. In this course, students will investigate the people, events and ideas that have shaped the United States from the end of the Civil War through today. Students are asked to analyze and evaluate decisions made by political, business and military leaders. Emphasis is placed on connections between events of the past and present. This course also gives students the opportunity to conduct research and apply their learning to current, real-world problems.

**WORLD HISTORY A**                      One Trimester/.5 Credit                      **Grades: 9-12**  
**MVUWHA**

In the first semester of this two semester course, students will learn how the Roman Empire developed in two very distinct directions. Next, students will discover the great intellectual and cultural contributions of Islamic Empires. Journey through the Middle Ages of Europe and Japan to learn how knights and samurais lived. You will also investigate the rise and fall of some of the great kingdoms of the Americas and Africa and then travel back to the Europe of the Renaissance and Reformation era. Hang on tight, before you dive into the Age of Discovery when eastern and western hemispheric encounters created for some turbulent times.

**WORLD HISTORY B**                      One Trimester/.5 Credit                      **Grades: 9-12**  
*(PREREQUISITE: World History A)*                      **MVUWHB**

The second semester begins with a bang as students will learn about advancements in science and thought during the Age of Enlightenment and the social and political revolutions that followed as a result. As students meander through the 19<sup>th</sup> century, they will learn about the transformation from an agricultural to an industrial world and the many changes that resulted from that shift. Students will then learn about the interconnectedness of nationalism and colonialism and the two massive world wars were the end result. As students approach the finish line, they will learn about development in our modern world and the implications that historical events have on us today.

**NATIVE AMERICAN HISTORY**                      One Trimester/.5 Credit                      **Grades: 9-12**  
**MVUNAH**

Native American History takes you on a journey from the “The Most Ancient Ones” to the present day. Students will study the earliest migration of Native Americans to the North American continent, their resistance to colonialism, the western expansion of colonists and its impact on Native American land and traditions. You’ll also study U.S. federal policies that greatly affected the survival and continuity of native cultures through many years of conquest and change, the key contributions of Native Americans during World War II, and their present status in American society.

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### **AP MACROECONOMICS**

One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Algebra 1)*

**MVUAPMAC**

This single semester course introduces students to the economic principles that apply to an entire economic system and focuses on the study of national income and price-level determination as well introducing students to economic performance measures, the financial sector, stabilization policies, economic growth and international economics. Content in each lesson is presented in a variety of formats including an eTextbook, videos and other internet resources. Students are given the ability to select from some, or all of these resources, based on their own learning preferences and needs. Regular practice opportunities allow students to gauge their understanding and preparedness before attempting graded quizzes and tests.

### **AP MICROECONOMICS**

One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Algebra 1)*

**MVUAPMIC**

This single-semester course introduces students to the economic principles that apply to consumers and producers in an economic system and focuses on the nature and function of product markets, the study of factor markets and the role of government. Content in each lesson is presented in a variety of formats including an eTextbook, videos and other internet resources. Students are given the ability to select from some, or all of these resources, based on their own learning preferences and needs. Regular practice opportunities allow students to gauge their understanding and preparedness before attempting graded quizzes and tests.

### **AP PSYCHOLOGY (APEX)**

One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: Biology)*

**MVUAPPSYA**

This single semester course is aligned to the Advanced Placement curriculum for Psychology and provides an overview of current psychological research methods and theories. Students study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. Note: Based on the AP Psychology topic outline from the College Board, this course addresses the topic of human sexuality. The topic accounts for less than 5 percent of the course and focuses on the subject of gender development and identity. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP US GOVERNMENT AND POLITICS**

One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: US History A & B)*

**MVUAPUSGAP**

This one-semester course will give students an analytical perspective on government and politics in the United States. The course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs and ideas that constitute U.S. politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Regular practice opportunities allow students to gauge their understanding and preparedness before attempting graded quizzes and tests.

## Online Learning – Michigan Virtual University

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### **AP US HISTORY A**                      One Semester/.5 Credit

*(PREREQUISITE: World History)*

**Grades: 9-12**  
**MVUAPUSHA**

This is semester one of a two-semester course.

Per FLVS, “This challenging course is designed to provide a college-level experience and prepare students for the AP exam in early May. Over two 18-week semesters, the students are engaged in a wide variety of activities, with substantial emphasis on interpreting documents, writing analytical essays, and mastering factual content. Woven into the chronology of the course are the key themes of American History. Issues of American identity, diversity, religion and culture are examined. Economic transformations, the development of politic institutions and reform movements are evaluated. War, slavery, and demographic changes are assessed. Globalization and environmental issues are analyzed. These themes appear consistently in the course as the student journeys through broader course topics such as colonial and antebellum life, civil war and reconstruction, the gilded age and on to modern America.” Course does not include the AP Exam; students can contact their school’s AP coordinator or the College Board to sign up to take the exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP US HISTORY B**                      One Semester/.5 Credit

*(PREREQUISITE: AP US History A)*

**Grades: 9-12**  
**MVUAPUSHB**

This is semester two of a two-semester course.

Per FLVS, “This challenging course is designed to provide a college-level experience and prepare students for the AP exam in early May. Over two 18-week semesters, the students are engaged in a wide variety of activities, with substantial emphasis on interpreting documents, writing analytical essays, and mastering factual content. Woven into the chronology of the course are the key themes of American History. Issues of American identity, diversity, religion and culture are examined. Economic transformations, the development of politic institutions and reform movements are evaluated. War, slavery, and demographic changes are assessed. Globalization and environmental issues are analyzed. These themes appear consistently in the course as the student journeys through broader course topics such as colonial and antebellum life, civil war and reconstruction, the gilded age and on to modern America.” Course does not include the AP Exam; students can contact their school’s AP coordinator or the College Board to sign up to take the exam. In order to maintain the integrity of AP standards, it is highly advisable that local school districts proctor their online student AP course midterm and final exams.

### **AP WORLD HISTORY A**                      One Semester/.5 Credit

This is the first semester of a year-long AP World History course.

**Grades: 9-12**  
**MVUAWHA**

This course spans the Neolithic age to the present in a rigorous academic format organized by chronological periods and viewed through fundamental concepts and course themes. Students analyze the causes and processes of continuity and change across historical periods. Themes include human-environment interaction, cultures, expansion and conflict, political and social structures, and economic systems. In addition to mastering historical content, students cultivate historical thinking skills that involve crafting arguments based on evidence, identifying causation, comparing and supplying context for events and phenomenon, and developing historical interpretation.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **AP WORLD HISTORY B**

One Semester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: AP World History A)*

**MVUAPWHB**

This is the second semester of a full year of AP World History.

This course spans the Neolithic age to the present in a rigorous academic format organized by chronological periods and viewed through fundamental concepts and course themes. Students analyze the causes and processes of continuity and change across historical periods. Themes include human-environment interaction, cultures, expansion and conflict, political and social structures, and economic systems. In addition to mastering historical content, students cultivate historical thinking skills that involve crafting arguments based on evidence, identifying causation, comparing and supplying context for events and phenomenon, and developing historical interpretation.



# MONROE HIGH SCHOOL SPECIAL SERVICES DEPARTMENT

## All Career Pathways

**Students, please note that in order to take any courses in Special Services, you must have an Individualized Education Plan (IEP)**

The Monroe High School Resource Room/Categorical program was developed to provide qualified students with individualized instruction in academic areas with an emphasis on personal adjustment and independent living skills. Placement in the program is based on an evaluation and the decision of an Individualized Education Planning Committee.



A course that is accompanied by this symbol meets the graduation requirements outlined by the Michigan Merit Curriculum (MMC).

### LANGUAGE ARTS

**ENGLISH 9 CO-TAUGHT** – Two Trimesters/1 Credit  
(*PREREQUISITE: IEP & Teacher Recommendation*)

**Grade: 9**  
**210021, 210022**



*This course fulfills one of the graduation requirements outlined by the MMC.*

The literary focus of the course is multigenre literature. A holistic approach to language arts is the foundation of the course. Language, literature, speech, and writing will be assimilated into academic and human experiences. Students are expected to learn from language models such as novels, short stories, biographies, plays, poems, and essays and draw upon personal experience to develop methods of expression through process writing and verbal presentation. In addition, skills needed for formal research projects are introduced. Each student is expected to learn methods of research.

**ENGLISH 10 CO-TAUGHT** – Two Trimesters/1 Credit  
(*PREREQUISITE: IEP & Teacher Recommendation*)

**Grade: 10**  
**210031, 210032**

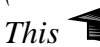


*This course fulfills one of the graduation requirements outlined by the MMC.*

Sophomore language arts continues to focus on multigenre literature with an introduction to early American Literature at the end of the course. A holistic approach to language arts is the foundation of the course. Language, literature, speech, and writing will be assimilated into academic and human experiences. Students are expected to learn from language models such as novels, short stories, biographies, plays, poems, and essays and draw upon personal experience to develop methods of expression through process writing and verbal presentation. In addition, skills needed for formal research projects are reinforced. Each student is expected to use methods of research, focusing on, but not limited to library resources.

**ENGLISH 11 CO-TAUGHT** – Two Trimesters/1 Credit  
(*PREREQUISITE: IEP & Teacher Recommendation*)


**Grade: 11**  
**210041, 210042**



*This course fulfills one of the graduation requirements outlined by the MMC.*


The literary focus of the course is a survey of American Literature spanning the literary periods from the beginning of the 19<sup>th</sup> century through today. The theme of the course is the American Dream as it changes from one period of literature to the next.

A holistic approach to language arts continues to be the foundation of the course. Language, literature, speech, and writing will be assimilated into academic and human experiences. Students are expected to learn from language models such as novels, short stories, biographies, plays, poems, and essays and draw upon personal experience to develop methods of expression through process writing and verbal presentation.


**ENGLISH 12 CO-TAUGHT**– Two Trimesters/1 Credit**Grade: 12***(PREREQUISITE: IEP & Teacher Recommendation)***210051, 210052** *This course fulfills one of the graduation requirements outlined by the MMC.*

The literary focus of this course is a survey of world literature from early Greek to modern 21<sup>st</sup> century. Classical, Medieval, Renaissance, and Modern periods of literature are studied, as well as works from other cultures.


A holistic approach to language arts continues to be the foundation of the course. Language, literature, speech, and writing will be assimilated into academic and human experiences. Students are expected to learn from language models such as novels, short stories, biographies, plays, poems, and essays and draw upon personal experience to develop methods of expression through process writing and verbal presentation.

**MATHEMATICS****MATH 1 CO-TAUGHT** – Two Trimesters/1 Credit**Grades: 9-10***(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.)* **210134, 210135** *This course fulfills one of the graduation requirements outlined by the MMC*

This course is designed to introduce students to a variety of mathematical concepts. Topics include cause and effect, change over time, working with data, linear functions, exponential functions, polygons and polyhedra, quadratic functions, probability, and discrete mathematics. A graphing calculator is recommended but not required. This course begins preparing you for success on the 11<sup>th</sup> grade MME. Students successfully completing this course should enroll in Math 2. Students who do not successfully complete Math 1, and because it is a building block for all other math courses, must enroll in E2020, summer school, or online course.

**MATH 2 CO-TAUGHT** – Two Trimesters/1 Credit**Grades: 9-11***(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.)* **210140, 210145** *This course fulfills one of the graduation requirements outlined by the MMC*


This course continues to introduce students to a variety of mathematical concepts that they began exploring in Math 1. Topics include direct and inverse variation, systems of linear equations, matrices, analytic geometry, regression and correlation, quadratic functions, logarithmic functions, discrete mathematics, trigonometry, and probability. A graphing calculator is recommended but not required. This course continues preparing you for success on the 11<sup>th</sup> grade MME. Students successfully completing this course should enroll in Math 3 (2-tri) or Math 3 (4-tri). Students who do not successfully complete Math 2, and because it is a building block for all other math courses, must enroll in E2020, summer school, or online course.

**MATH 3A (2-tri) / MATH 3B CO-TAUGHT (2-tri)** – Two Trimesters/1 Credit**Grades: 10-12***(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.)* **160500, 160600** *This course fulfills one of the graduation requirements outlined by the MMC*

This course continues to introduce students to a variety of mathematical concepts building on what they have seen in Math 1 and Math 2. Topics include reasoning and proof, inequalities and linear programming, similarity and congruence, samples and variation, polynomial and rational functions, circles and circular functions, recursion and iteration, and inverse functions. A graphing calculator is recommended but not required. This course finishes preparing you for success on the 11<sup>th</sup> grade MME. Students successfully completing Math 3 and interested in taking AP Calculus or in exploring topics beyond the expected high school curriculum should enroll in Math 4. Students who do not successfully complete Math 3 must enroll in E2020, summer school, or online course.

**MATH 3A PREP (4-tri) / MATH 3A CO-TAUGHT (4-tri)** – Four Trimesters/2 Credit **Grades: 10-12**  
(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.) **160700, 160800**


**MATH 3B PREP (4-tri) / MATH 3B CO-TAUGHT (4-tri)** – Four Trimesters/2 Credit **Grades: 10-12**  
(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.) **160900, 161000**

 *This course fulfills one of the graduation requirements outlined by the MMC*

This course continues to introduce students to a variety of mathematical concepts building on what they have seen in Math 1 and Math 2. Topics include reasoning and proof, inequalities and linear programming, similarity and congruence, samples and variation, polynomial and rational functions, circles and circular functions, recursion and iteration, and inverse functions. A graphing calculator is recommended but not required. This course is designed to cover the content of Math 3 over four trimesters allowing for additional remediation and support. The first 2 trimesters will be called Math 3A Prep and Math 3A (4-tri). The second 2 trimesters will be called Math 3B Prep and Math 3B (4-tri). Students will earn an elective math credit during the Prep portions of the class and their Math 3 credits during the remaining two portions. Students completing this course and its pre-requisites will have completed all math requirements for graduation. Students who do not successfully complete Math 3 must enroll in E2020, summer school, or online course.

**ALGEBRA 2, CO-TAUGHT** – Four Trimesters/2 Credits (1 Elective Math Credit & 1 Math Credit) **Grade: 12 Alg 2B**  
(PREREQUISITE: IEP & Teacher Recommendation) **A-sections 210181, 210182**

(It is recommended a graphing calculator [TI-83 Plus, TI-84 Plus and/or TI-89] be purchased for this class.) **B-sections 210183, 210184**

 *This course fulfills two of the graduation requirements outlined by the MMC.*

Students will learn to take the concepts learned in Algebra 1 and Geometry and combine them in solving more complex problems. This course is designed to cover the content of Algebra 2 over four trimesters allowing for additional remediation and support. The first 2 trimesters will be called Algebra Prep and Algebra 2A. The second 2 trimesters will be called Algebra 2B Prep and Algebra 2B. Students will earn an elective math credit during the Prep portions of the class and their Algebra 2 credits during the remaining two portions. Students completing this course and its pre-requisites will have completed all math requirements for graduation.

## SCIENCE


**CHEMISTRY IN THE COMMUNITY, CO-TAUGHT** – Two Trimesters/1 Credit **Grade: 10**  
(PREREQUISITE: Biology) **210241, 210242**

 *This course fulfills one of the graduation requirements outlined by the MMC.*

Chemistry in the Community is designed to give students an in-depth look at how chemistry affects their life in many different areas. This course is designed as an inquiry into common issues or problems that are based on chemistry topics. Topics to be investigated include: water resources, chemical resources, petroleum uses and resources, air and climate chemistry. Additional topics that may be covered include: the chemical industry, nuclear chemistry, food chemistry. This course includes several laboratory investigations and will require both individual and cooperative group work. Laboratory investigations include collecting, reporting and interpreting data and applying the new knowledge to students own lives; as well as designing some of their own investigations. Chemistry in the Community will require mathematical calculations, but is not an algebra based chemistry course. **Materials: Students are required to maintain a year-long notebook and will need a calculator.**

**PHYSICAL SCIENCE CO-TAUGHT** – Two Trimesters/1 Credit  
(*PREREQUISITE: Biology, Algebra 1, IEP & Teacher Recommendation*)

**Grades: 11**  
**210251, 210252**


 *This course fulfills one of the graduation requirements outlined by the MMC.*

This Physical Science course boosts student success by first building a solid conceptual understanding of physics. This course meets the Michigan High School Physics Essential Content Expectations and will prepare the students for the Michigan Merit Examination. **This class will not count as a Physics class under the Michigan 2007 graduation requirements.** Physical Science uses meaningful examples and hands-on activities. Which builds an understanding of the principles of physics through engaging explanations, demonstrations, labs, concept-development exercises, and thought-provoking questions. Students then apply what they know through laboratory work, mathematical problem-solving, and discussions of critical-thinking questions.

## **SOCIAL STUDIES**

**CIVICS CO-TAUGHT** – One Trimester/.5 Credit  
*Prerequisite: IEP & Teacher Recommendation*


**Grades: 10**  
**210345**

 *This course fulfills one of the graduation requirements outlined by the MMC.*

This course introduces students to the study of local, state, and federal government. The major emphasis of this course deals with the basic structure and function of our republic. An important aspect of this course is to develop a well-informed intelligent citizen who will become an active participant in our Democratic society. Finally the course will provide basic knowledge of the core democratic values and constitutional principle which will allow them to put their understanding of Democracy in perspective.

**ECONOMICS CO-TAUGHT** —One Trimester/ .5 Credit  
*Prerequisite: IEP & Teacher Recommendation*

**Grades: 10**  
**210355**

 *This course fulfills one of the graduation requirements outlined by the MMC.*

Productive members of society must understand basic economic concepts such as scarcity, costs and benefits in order to make sound individual economic decisions. Students will apply these basic economic concepts as they evaluate the consequences of public policy decisions. This course will help students function as consumers, savers, investors, and responsible citizens.

**U. S. HISTORY & GEOGRAPHY A CO-TAUGHT**– One Trimesters/.5 Credit

**Grade: 9**


 *This course fulfills one of the graduation requirements outlined by the MMC.*

**210331**


This course is designed to investigate the history and culture of different ethnic, racial, and socio-economic groups within the framework of American History from 1870 to 1940. The following themes will be taught: Industrialization, Immigration, Imperialism, Progressive Era, World War 1, the 1920's, and the Great Depression.

**U. S. HISTORY & GEOGRAPHY B CO-TAUGHT**– One Trimester/.5 Credit  
*PREREQUISITE: U.S. History A*


**Grade: 9**  
**210332**

 *This course fulfills one of the graduation requirements outlined by the MMC.*

This course is designed to investigate the history and culture of different ethnic, racial, and socio-economic groups within the framework of American History from 1940 to the present. Themes will include World War II, Post-War America, the Cold War, Civil Rights, and Post-Cold War.

**WORLD HISTORY & GEOGRAPHY A CO-TAUGHT – One Trimester/.5 Credit****Grade: 11  
210351***Prerequisite: IEP & Teacher Recommendation* *This course fulfills one of the graduation requirements outlined by the MMC.*

World History takes a global and comparative approach to studying the world and its past to develop greater understanding worldwide events, processes, and interactions among the world’s people, cultures, societies, and environment. The course will begin with the fall of the Roman Empire, and end with the first wave of globalization in 1800. The course will investigate our diverse and common traditions, and work toward an understanding of the complex interactions among various environmental, human and social forces that influence us.

**WORLD HISTORY & GEOGRAPHY B CO-TAUGHT – One trimester/.5 Credit****Grade: 11  
210352***Prerequisite: IEP & Teacher Recommendation* *This course fulfills one of the graduation requirements outlined by the MMC.*

World History takes a global and comparative approach to studying the world and its past to develop greater understanding worldwide events, processes, and interactions among the world’s people, cultures, societies, and environment. This course will begin with the age of Global Revolution and conclude in the present day. The course will investigate our diverse and common traditions, and work toward an understanding of the complex interactions among various environmental, human and social forces that influence us.

**ELECTIVES****FRESHMAN EDUCATION TIME – One–Three Trimesters/.5-1.5 Credits****Grades: 9***(PREREQUISITE: IEP and Teacher Recommendation)***210421, 210422, 210423**

This is an elective course in which students will focus on the attainment of skills outlined in the Michigan Merit Curriculum in the core content areas. In addition, students in Freshman Education Time will begin learning skills that help them transition into life as a high school student, work on individual goals and developing a plan for high school through individual learning styles and strengths.

**SOPHOMORE EDUCATION TIME – One–Three Trimesters/.5-1.5 Credits****Grades: 10***(PREREQUISITE: IEP and Teacher Recommendation)***210471, 210472, 210473**

This is an elective course in which students will focus on the attainment of skills outlined in the Michigan Merit Curriculum in the core content areas. Students in Sophomore Education Time will focus on taking ownership of their education through career exploration, communication skills and beginning development of individual goals, objectives, strengths and accommodations.

**POST SECONDARY PLANNING 11 – One–Three Trimesters/.5-1.5 Credits****Grades: 11***(PREREQUISITE: IEP and Teacher Recommendation)***210461, 210462, 210463**

This is an elective course in which students will focus on the attainment of skills outlined in the Michigan Merit Framework in the core content areas. Juniors will begin to develop a post-secondary plan through continued career exploration, college research, basic financial literacy, SAT/M-Step preparation and the development of a transition plan for their individual goals. Students will also gain a deeper knowledge of what their IEP is and how to self-advocate for themselves.

**POST SECONDARY PLANNING 12 – One–Three Trimesters/.5-1.5 Credits****Grades: 12***(PREREQUISITE: IEP and Teacher Recommendation)***210465, 210466, 210467**

This is an elective course in which students will focus on the attainment of skills outlined in the Michigan Merit Framework in the core content areas. Seniors will finalize their post-secondary plans by choosing and applying for education or training after high school and exploring financial aid available to them, develop and help in the process of their own IEP and meet with and become aware of the community agencies available to them after graduation. In addition, students will show their self-advocacy skill by helping in the process of their Senior IEP meeting.

# MONROE HIGH SCHOOL

## SPECIALIZED AREAS OF STUDY

### DUAL ENROLLMENT

**Grades: 11-12**

To dual enroll, you can use your PSAT or the MCCC placement test to qualify. Students will be enrolled in both the school district and postsecondary institution during the local school district's regular academic year, will be enrolled in a combined total of five classes each trimester, and will attend classes on the MCCC campus or on-line. The college course, according to the Michigan Department of Education, cannot be a hobby, craft or recreation course, or in the subject areas of physical education, theology, divinity, or religious education. Additional information may be obtained from the MHS Student Services Department.

### E2020 / Edgenuity

A comprehensive computerized program used for credit recovery in one of three ways: during the normal school day, after school hours, or during the summer. The online program is led by highly qualified master teachers and allows students to work at their own pace and in an alternative setting. Students interested in E2020 must have approval from the Student Services Department.

### ONLINE STUDIES

Monroe Public Schools in cooperation with the Michigan Virtual High School is providing students with an opportunity to extend their learning through the Online Studies Program. Qualifying students may earn up to one high school credit per academic year by successfully completing online Advanced Placement courses, standard semester courses, and Flex-90 courses. Students' final grades will be based on the following scale: 100-90% A; 89-80% B; 79-70% C; 69-60% D; 59% and below E. Classes will be recorded on their transcripts and grades calculated with the cumulative GPA.

## Direct College Offerings

**What is Direct College?** Direct college credit courses provide students with the opportunity to take college level courses at high school and are generally taught by college faculty. Courses can count for high school credit and/or college credit. Direct college credit courses are college courses offered at the high school, however the college tuition fees are paid for by the Monroe Public School District. Direct college classes are offered to 9<sup>th</sup> – 12<sup>th</sup> grade students, provided they earn a qualifying score on the PSAT or MCCC qualifying test.

**A student may take up to 10 direct college courses during their high school career.**

**First year of enrollment for 9<sup>th</sup>/10<sup>th</sup> – Students may take up to two direct college classes.**

**First year of enrollment for 11<sup>th</sup>/12<sup>th</sup> – Students may take up to six direct college classes.**

\*\*\*Direct college courses are rigorous courses taught at a college level. Students may not drop direct college classes after the first day of the course. Any students who fail a direct college course will repay the Monroe Public School District for any fees (tuition, lab fees, etc...) incurred by the district. Direct college courses may or may not transfer to other colleges and universities for credit. Students should contact the university or visit the Michigan Transfer Network online to inquire about credit transfer.

# MONROE HIGH SCHOOL WORLD LANGUAGE DEPARTMENT

## All Career Pathways

The World Language Department offers courses in French and Spanish. These courses are designed to teach young people how to communicate in a language other than their own, and to teach an understanding and appreciation for different cultures. The knowledge of a language other than English also enhances one's career potential in that many positions can be expanded once a foreign language is added to professional credentials. It is recommended that students take at least two years of the same language.

### **FRENCH 1**– Two Trimesters/1 Credit

**Grades: 9-12**  
**130001, 130002**

Students will be introduced to the basics of everyday conversation in French. This course is conducted mostly in French. The focus of this course is for students to develop good communication skills, mainly in the areas of listening and speaking in French. Students will also learn to read and write in French at a basic level. Additionally, this course introduces students to the culture of the French-speaking world.

### **FRENCH 2** – Two Trimesters/1 Credit

*(PREREQUISITE: French 1A and 1B)*

**Grades: 10-12**  
**130011, 130012**

Students will continue to work on everyday conversation skills in French. This course is conducted almost exclusively in French. The focus of this course is for students to develop good communication skills, mainly in the areas of listening and speaking in French. Students will also read and write in French on a daily basis at the beginning to intermediate level. This course also continues to expose students to the culture of the French-speaking world.

### **FRENCH 3** – Two Trimesters/1 Credit

*(PREREQUISITE: "C" or better in French 2)*

**Grades: 11-12**  
**130021, 130022**

Students will continue to work on everyday conversation skills in French at a more advanced level. This course is conducted exclusively in French. The focus of this course is for students to develop good communication skills, mainly in the areas of listening and speaking in French. Students will also read and write in French on a daily basis at a more advanced level. This course continues to expose students to the culture of the French-speaking world, and includes the study of current events, history, art, film and literature of these cultures.

### **FRENCH 4** – Two Trimesters/1 Credit

*(PREREQUISITE: "C" or better in French 3)*

**Grade: 12**  
**130031, 130032**

Students will continue to work on everyday conversation skills in French at a more advanced level. This course is conducted exclusively in French. The focus of this course is for students to develop good communication skills, mainly in the areas of listening and speaking in French. Students will also read and write in French on a daily basis at a more advanced level. This course continues to expose students to the culture of the French-speaking world, and includes the study of current events, history, art, film and literature of these cultures.

### **GERMAN 1** – Two Trimesters/1 Credit (Grades 9-12)

Students are introduced to the German sound system and grammar structure. Basic sentence parts are studied along with a variety of everyday words and cultural customs so that at the end of the year, the student will be able to carry on a simple, but meaningful conversation.

**Grades: 9-12**  
**130241, 130242**

### **JAPANESE 1** – Three Trimesters/1.5 Credit

**(Interactive Video Network) See page 7 for explanation of IVN**

**Grades: 9-12**  
**130141, 130142, 130143**

Take advantage of an opportunity to discover Japanese language and culture for yourself. Forget what you may know about foreign languages or about English. This language takes a completely different approach to communication. As we learn, we'll investigate many aspects of Japanese culture. From ukiyo-e to umeboshi,



Japanese culture will intrigue you. Students will be introduced to basic conversation patterns and to the two Japanese syllabaries, hiragana and katakana, as well as a few basic ideographs, kanji. The course will meet in the Distance Learning room and will cover the four basic language skills in a culturally contextualized format.

**JAPANESE 2 – Three Trimesters/1.5 Credit**

**Grades: 10-12**

**(Interactive Video Network) See page 7 for explanation of IVN**

**130151, 130152, 130153**

*(PREREQUISITE: “C” or better in Japanese 1)*

A continuation of Japanese 1. This class will be taught over the IVN network. It will continue to teach the four basic language skills in a culturally contextualized format. Students will increase their mastery of the syllabaries, while adding additional kanji to their knowledge base and increasing their understanding of Japanese vocabulary, grammar, and culture.

**JAPANESE 3 & 4 – Three Trimesters/1.5 Credits**

**Grades: 11-12**

**(Interactive Video Network) See page 7 for explanation of IVN**

**Japanese 3: 130161, 130162, 130163**

**Japanese 4: 130171, 130172, 130173**

A continuation of Japanese 2. The class will be taught over the IVN network. The course continues to teach the four basic language skills: listening, reading, writing, and speaking, in a culturally contextualized format. Students will increase their ability to read and write kanji, while they expand their vocabulary, grammar, and understanding of Japanese culture.

**SPANISH 1 – Two Trimesters/1 Credit**

**Grades: 9-12**

**130101, 130102**

Spanish 1 acquaints students with speaking, listening, reading and writing skills at the beginning level. Major aspects of Latin American and Spanish cultures are also introduced. The main focus of this course is to develop students listening and reading skills in Spanish. The majority of each class period is conducted in Spanish. Students will also read short novels and stories in Spanish.

**SPANISH 2 – Two Trimesters/1 Credit**

**Grades: 10-12**

*(PREREQUISITE: Spanish 1)*

**130111, 130112**

This course will continue beyond the basics of Spanish 1 to an intermediate level of study. Exposure to cultural aspects of life in the Spanish-speaking world will also be continued. The main focus of this course will still be on listening and reading skills in Spanish. Most of each class period is conducted in Spanish. Students will continue to read novels and stories in Spanish.

**SPANISH 3 – Two Trimesters/1 Credit**

**Grades: 11-12**

*(PREREQUISITE: “B” or better recommended in Spanish 2)*

**130121, 130122**

This course will offer a more comprehensive presentation of the essential elements of the Spanish language and a more thorough understanding of the Latin American and Spanish cultures. This course is conducted primarily in Spanish. Students will continue to work on listening and reading skills, but more time will be devoted to speaking and writing in Spanish as well. Students will read Spanish novels, abridged editions of Latin American/Spanish literature, and study Latin American and Spanish history.

**SPANISH 4 – Two Trimesters/1 Credit**

**Grade: 12**

*(PREREQUISITE: “B” or better recommended in Spanish 3)*

**130131, 130132**

This course will offer a more comprehensive presentation of the essential elements of the Spanish language and a more thorough understanding of the Latin American and Spanish cultures. This course is conducted primarily in Spanish. Students will continue to work on listening and reading skills, but more time will be devoted to speaking and writing in Spanish as well. Students will read Spanish novels, abridged editions of Latin American/Spanish literature and study Latin American and Spanish history.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **AMERICAN SIGN LANGUAGE 1A - One Trimester/.5 Credit** **MVUASL1A** **Grades: 9-12**

This is the first course in a two-course sequence and focuses on everyday communication in ASL. It introduces students to the basic signs, techniques, and culture knowledge, which will support the students to start signing beginning level conversational ASL. Each lesson is built upon a familiar topic such as family, self and friends so that students will find meaningful connection to the lessons. Students will be asked to use various media tools including online resources, online dictionaries, a web cam, and the web based audio-visual tool VoiceThread to master the content presented in the course. Students will be producing their own signing videos to demonstrate their learning. The goal of this course is to help develop fundamental ASL skills, knowledge, and interest that students will need to advance to the higher levels of ASL courses. The learning objectives target Mid-Novice-High Level of MI World Language Standards and Benchmarks.

### **AMERICAN SIGN LANGUAGE 1B - One Trimester/.5 Credit** **Grades: 9-12** *(PREREQUISITE: American Sign Language 1A)* **MVUASL1B**

This course is the second in a two-course sequence. Topics addressed in the course include information about the deaf culture, communication problems associated with deaf individuals, and the linguistic heritage of the deaf community and its influence on our own culture. The online text includes many videos that include role-playing conversations as well as vocabulary. There will be live sessions using a web cam during which time students will demonstrate a mastery of general sign vocabulary along with producing their own conversations. The activities follow the Michigan standards and benchmarks for World Languages, which are designed to enrich the learning experience and guide students toward developing cultural and linguistic fluency.

### **AMERICAN SIGN LANGUAGE 2A - One Trimester/.5 Credit** **Grades: 9-12** *(PREREQUISITE: American Sign Language 1A & 1B.)* **MVUASL2A**

This is the first course of the second year ASL courses and must be taken after the successful completion of the first year ASL courses. This course continues to focus on everyday communication in ASL by introducing students to the basic signs, techniques and culture. To help develop receptive skills without relying on lip movements of the signers, the signing videos will be all “voice off.” To develop expressive skills, students will continue to express their thoughts in signs within the given context in the lessons. Through the introduction to some of the higher ASL techniques such as classifiers and indexing, this second year course is designed to help students to develop an understanding that ASL is a visual language that delivers one’s ideas and thoughts using more than the individual signs. Students will continue to use various media tools including online resources, online dictionaries, a web cam and the web based audio-visual tool VoiceThread to master the content presented in the course. With the prerequisites of the first year courses, this course targets Novice-High Level of Michigan World Language Standards and Benchmarks.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **AMERICAN SIGN LANGUAGE 2B** - One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: American Sign Language 2A.)*

**MVUASL2B**

This is the second course of the second year of ASL courses. The course continues to focus on useful communication that students should be able to carry out in ASL. Students study the basic signs and phrases, techniques, and cultural nature of the language. This course introduces the students to the new concept of conceptually accurate signing that places emphasis on awareness of differences between ASL and English. Lesson topics shift from the everyday interaction in one's immediate environment to interactions in the community to help students to build signing skills for obtaining and providing information rather than simply exchanging information. To support students, build the conceptual accuracy, the lessons stress ASL classifiers; students will be challenged to receptively identify some of the most common classifiers in contexts, and to apply them in their own signing. As a part of culture learning, students will continue to learn more facts about the Deaf culture as well as current and past challenging social issues. The signing videos will be all "voice off" to help develop students' receptive skills without reading lips. Students will continue to produce their own signing videos to demonstrate their learning. The goal of this course is to help utilize the fundamental ASL skills and knowledge into simple interpersonal and social interactions, and to build confidence needed to advance to the higher levels of ASL courses. This course targets Novice-High Level of MI World Language Standards and Benchmarks.

### **CHINESE 1A MANDARIN** - One Trimester/.5 Credit

**Grades: 9-12**

**MVUC1AM**

This course, the first in a two-course sequence, is designed for students who are new to the Chinese language. In this course, students will work on basic communication competency through conversations about topics such as exchanging personal and family information, making travel arrangements, ordering foods in restaurants, discussing class schedules, making phone calls, reading maps and reserving rooms in a hotel. Students will work through the multimedia e-textbook and their daily learning tasks independently, while also attending mandatory weekly synchronous virtual meetings to elaborate on and clarify their independent learning experience.

### **CHINESE 1B MANDARIN** - One Trimester/.5 Credit

**Grades: 9-12**

**MVUC1BM**

*(PREREQUISITE: Chinese 1A.)*

This course is the second in a two-course sequence. In this course, students will work on basic communication competency through conversations about topics such as exchanging personal and family information, making travel arrangements, ordering foods in restaurants, discussing class schedules, making phone calls, reading maps and reserving rooms in a hotel. Students will work through the multimedia e-textbook and their daily learning tasks independently, while also attending mandatory weekly synchronous virtual meetings to elaborate on and clarify their independent learning experience.

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### **CHINESE 2A MANDARIN** - One Trimester/.5 Credit

*(PREREQUISITE: Chinese 1A & Chinese 1B.)*

**Grades: 9-12**

**MVUC2AM**

This course is the first in a two-course sequence and is designed for students who have mastered some basic Chinese knowledge and skills such as pinyin, Chinese character input and 300 Chinese fundamental words either in pinyin or character. This course focuses on taking students from a tentative understanding of Chinese basics to a greater level of sophistication by having students participate in sentence-level conversations about topics such as writing letters/emails, asking directions, asking for help, seeing a doctor, ordering foods, bargaining, talking about hobbies and traffic, and describing cloth wears. Their language learning will be naturally embedded in rich cultural contexts through the multimedia e-textbook. Cultural topics will cover Sichuan opera, Chinese senior center, Natural Scenic Spot of Jiuzhai Valley, Taoism, and Chinese medicine. For this course, students are required to take an hour's language lab per week and interact with their instructor through Blackboard and email for asynchronous learning on the other school days.

### **CHINESE 2B MANDARIN** - One Trimester/.5 Credit

*(PREREQUISITE: Chinese 2A.)*

**Grades: 9-12**

**MVUC2BM**

This course is the second in a two-course sequence and is designed for students who are able to carry on basic Chinese conversations in real-life situations and read simple dialogues and short paragraphs. In this course, students will continue to consolidate their sentence-level communication competency through communicative task-based learning about topics such as talking about Chinese traditional sports and popular sport matches, purchasing tickets, borrowing/returning books at libraries, talking about favorite music/musical instrument/bands, travelling, hotel check-in, weather and the Spring Festival. They will deepen their knowledge of Chinese cultures by following the multimedia e-textbook to learn about topics such as the Spring Festival customs, Chinese dining etiquette, Chinese garden, Chinese painting and related geographic spots in southeast China.

### **CHINESE 3A MANDARIN** - One Trimester/.5 Credit

*(PREREQUISITE: Chinese 2B.)*

**Grades: 9-12**

**MVUC3AM**

This course is the first in a two-course sequence and is designed for students who are able to express themselves in simple Chinese, read short passages, and create simple Chinese dialogues. Throughout the course, students will develop their ability to use more advanced vocabulary and more complex sentence structures to express themselves by accomplishing task- and project- based language learning activities. Curriculum will be focused on describing people's physical distinctions, physical locations/layout of different places, comparing and contrasting different cities, discussing generation gaps, talking about weekend plans, long-term goals, holidays, gifts, recipes, wedding, and hobbies. And related cultural topics are incorporated in each unit to help students form better insights into the cultural differences.

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### **CHINESE 3B MANDARIN** - One Trimester/.5 Credit

*(PREREQUISITE: Chinese 3A.)*

**Grades: 9-12**

**MVUC3BM**

This course is the second in a two-course sequence and is targeted to students who can infer meaning from contexts and use learned knowledge to conduct fundamental dialogic communication with others in Chinese around the general topics. This course will help students further develop their four major language skills by teaching them to use the key words and sentence structures to make comments on such topics as proposing travel destinations, describing friends, social network and birthday parties, talking about Chinese Kongfu, animal protection, ideal universities and professions. Students will work on a variety of task-based projects that prepare them for more complex Chinese communication and better understanding of the typical Chinese culture.

### **CHINESE 4A MANDARIN** - One Trimester/.5 Credit

*(PREREQUISITE: Chinese 3B.)*

**Grades: 9-12**

**MVUC4AM**

This course is the first in a two-course sequence. In this course, students continue to develop their vocabulary and understanding of grammar by focusing on its usage in daily experiences. Cultural study continues to serve as a contextual backdrop of language, but greater emphasis is placed on culture as a subject of study and as a way of understanding China's past and present. In addition, concrete requirements are specified for Chinese Character learning and writing. This course helps students continue their preparation for the Advanced Placement (AP) Chinese Language and Culture Exam administered by the College Board and is taught by a native Chinese instructor.

### **CHINESE 4B MANDARIN** - One Trimester/.5 Credit

*(PREREQUISITE: Chinese 4A.)*

**Grades: 9-12**

**MVUC4BM**

This course is the second in a two-course sequence. In this course, students continue to develop their vocabulary and understanding of grammar by focusing on its usage in daily experiences. More formal speech and written-style language will be introduced. Cultural information will be integrated within the teaching of reading, writing, and speaking. In addition, concrete requirements are specified for Chinese Character learning and writing. Students are expected to rely more on characters without Pinyin. This course helps students continue their preparation for the Advanced Placement (AP) Chinese Language and Culture Exam administered by the College Board and is taught by a native Chinese instructor.

### **FRENCH 1A (MIDDLEBURY)** - One Trimester/.5 Credit

**Grades: 9-12**

**MVUF1A**

This course is the first in a two-course sequence. Students begin their introduction to French by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.

## Online Learning – Michigan Virtual University

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### **FRENCH 1B (MIDDLEBURY) - One Trimester/.5 Credit**

*(PREREQUISITE: French 1A)*

**Grades: 9-12**

**MVUF1B**

This course is the second in a two-course sequence. Students begin their introduction to French by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.

### **FRENCH 2A (MIDDLEBURY) - One Trimester/.5 Credit**

*(PREREQUISITE: French 1B)*

**Grades: 9-12**

**MVUF2A**

This course is the first in a two-course sequence. Students continue their study of French by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.

### **FRENCH 2B (MIDDLEBURY) - One Trimester/.5 Credit**

*(PREREQUISITE: French 2A)*

**Grades: 9-12**

**MVUF2B**

This course is the second in a two-course sequence. Students continue their study of French by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.

### **FRENCH 3A (MIDDLEBURY) - One Trimester/.5 Credit**

*(PREREQUISITE: French 2)*

**Grades: 9-12**

**MVUF3A**

This course is the first in a two-course sequence. This fluency level course is targeted to students that can infer meaning from clues or from prior knowledge, voluntarily ask questions, and use higher level thinking skills. The student is intentionally presented with language they will not understand, with the specific objective of making hypotheses and inferring meaning based on what they do know—such as reading body language, facial expressions, and recognizing familiar locations and objects. This kind of discourse resembles the real world in that there is a focus on meaning, a gap in meaning exists, and there is a goal to work towards. Students will interact with partners or with groups to accomplish projects that in verb real-world communication skills in the target language. Web Quests are task-based activities where the students have to perform a task by researching different pre-selected resources. Using authentic documents (text, audio, video, images) in the target language to expose students to the language is a cornerstone in this course.

## Online Learning – Michigan Virtual University

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**FRENCH 3B (MIDDLEBURY)** - One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: French 3A)*

**MVUF3B**

This course is the second in a two-course sequence. This fluency level course is targeted to students that can infer meaning from clues or from prior knowledge, voluntarily ask questions, and use higher level thinking skills. The student is intentionally presented with language they will not understand, with the specific objective of making hypotheses and inferring meaning based on what they do know—such as reading body language, facial expressions, and recognizing familiar locations and objects. This kind of discourse resembles the real world in that there is a focus on meaning, a gap in meaning exists, and there is a goal to work towards. Students will interact with partners or with groups to accomplish projects that in verb real-world communication skills in the target language. Web Quests are task-based activities where the students have to perform a task by researching different pre-selected resources. Using authentic documents (text, audio, video, images) in the target language to expose students to the language is a cornerstone in this course.

**GERMAN 1A (MIDDLEBURY)** - One Trimester/.5 Credit

**Grades: 9-12**

**MVUG1A**

This course is the first in a two-course sequence. Students begin their introduction to German by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.

**GERMAN 1B (MIDDLEBURY)** – One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: German 1A)*

**MVUG1B**

This course is the second in a two-course sequence. Students begin their introduction to German by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.

**GERMAN 2A (MIDDLEBURY)** - One Trimester/.5 Credit

**Grades: 9-12**

*(PREREQUISITE: German 1)*

**MVUG2A**

This course is the first in a two-course sequence. Students continue their study of German by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.



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### **GERMAN 2B (MIDDLEBURY) - One Trimester/.5 Credit**

*(PREREQUISITE: German 2A)*

This course is the second in a two-course sequence. Students continue their study of German by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.

**Grades: 9-12  
MVUG2B**

### **JAPANESE 1A – One Trimester/.5 Credit**

This is a beginning level course that will introduce the student to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Greetings, Date, Time, Colors and Places), students learn to express themselves using an ever increasing vocabulary, present-form verbs, particles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Cultural information in the course will teach the student about Japanese culture, people, society, and history. The course is aligned to the national Foreign Language standards and provides a way to focus on the five important aspects of foreign language instruction: communication, culture, connections, comparisons and community. These are the "Five C's of the Foreign Language Education" as outlined in Standards for Foreign Language Learning: Preparing for the 21st Century.

**Grades: 9-12  
MVUJ1A**

### **JAPANESE 1B - One Trimester/.5 Credit**

*(PREREQUISITE: Japanese 1A)*

This is the second semester of a beginning level course that will introduce the student to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Family, Weather, Food, Pastimes, and School), students learn to express themselves using an ever increasing vocabulary, present-form verbs, particles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Cultural information in the course will teach the student about Japanese culture, people, society, and history. The course is aligned to the national Foreign Language standards and provides a way to focus on the five important aspects of foreign language instruction: communication, culture, connections, comparisons and community. These are the "Five C's of the Foreign Language Education" as outlined in Standards for Foreign Language Learning: Preparing for the 21st Century.

**Grades: 9-12  
MVUJ1B**

## Online Learning – Michigan Virtual University

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### **JAPANESE 2A** - One Trimester/.5 Credit

*(PREREQUISITE: Japanese 1B)*

**Grades: 9-12**

**MVUJ2A**

This course is a continuation of a beginning level course that will introduce the student to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Daily Life, Animals, Activities, The Body and Descriptions), students learn to express themselves using an ever increasing vocabulary, present-tense verbs and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Cultural information in the course will teach the student about Japanese culture, people, society, and history. The course is aligned to the national Foreign Language standards and provides a way to focus on the five important aspects of foreign language instruction: communication, culture, connections, comparisons and community. These are the "Five C's of the Foreign Language Education" as outlined in Standards for Foreign Language Learning: Preparing for the 21st Century.

### **JAPANESE 2B** - One Trimester/.5 Credit

*(PREREQUISITE: Japanese 2A)*

**Grades: 9-12**

**MVUJ2B**

This course is the second in a two-course sequence. Japanese 2B focuses on more advanced communication skills in the language through activities that involve speaking, writing, listening and reading. Students delve more deeply into various aspects of the Japanese culture. Students are exposed to kanji that relate to the topics studied. Most readings are provided in both a basic form and a more advanced format so that students can learn to recognize kanji in context. Students are encouraged to incorporate appropriate kanji in their own writing. Cultural information in the course will teach the student about Japanese culture, people, society, and history. The course is aligned to the national Foreign Language standards and provides a way to focus on the five important aspects of foreign language instruction: communication, culture, connections, comparisons and community. These are the "Five C's of the Foreign Language Education" as outlined in Standards for Foreign Language Learning: Preparing for the 21st Century.

### **LATIN 1A** - One Trimester/.5 Credit

**Grades: 9-12**

**MVUL1A**

This course is the first in a two-course sequence. Building the Via Latina: You are about to build a Roman road, the Via Latina. This road will be the foundation for your study of Latin and the culture of ancient Rome. Famous Romans from the past have agreed to be your supervisors. They will invite you to dinner, regale you with stories from mythology, introduce you to other Romans, show you around their homes, entertain you at the chariot races or the gladiatorial fights, and give you a look at what it meant to be a Roman — politically, socially and economically. Your task is to learn Latin, the language of the Romans. So let's start the building process and find out how different and yet how similar our worlds really are.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **LATIN 1B** - One Trimester/.5 Credit

*(PREREQUISITE: Latin 1A)*

**Grades: 9-12**

**MVUL1B**

This course is the second in a two-course sequence. Building the Via Latina: You are about to build a Roman road, the Via Latina. This road will be the foundation for your study of Latin and the culture of ancient Rome. Famous Romans from the past have agreed to be your supervisors. They will invite you to dinner, regale you with stories from mythology, introduce you to other Romans, show you around their homes, entertain you at the chariot races or the gladiatorial fights, and give you a look at what it meant to be a Roman — politically, socially and economically. Your task is to learn Latin, the language of the Romans. So let's start the building process and find out how different and yet how similar our worlds really are.

### **LATIN 2A** - One Trimester/.5 Credit

*(PREREQUISITE: Latin 1B)*

**Grades: 9-12**

**MVUL2A**

This course is the first in a two-course sequence. Welcome, movie star! You will continue your journey to the time of the ancient Romans, but this time you will be the star in our movie, "An Epic of Great Proportion." With your director, your script will include visits with some of the men who made Rome great. From them, you will learn about the Roman government and how Rome grew to rule most of the known world. Your epic movie will also take you back to the Trojan War where you will accompany the Greeks on a great adventure. Study your lines and get ready for "lights, camera, action!"

### **LATIN 2B** - One Trimester/.5 Credit

*(PREREQUISITE: Latin 2A)*

**Grades: 9-12**

**MVUL2B**

This course is the second in a two-course sequence. Welcome, movie star! You will continue your journey to the time of the ancient Romans, but this time you will be the star in our movie, "An Epic of Great Proportion." With your director, your script will include visits with some of the men who made Rome great. From them, you will learn about the Roman government and how Rome grew to rule most of the known world. Your epic movie will also take you back to the Trojan War where you will accompany the Greeks on a great adventure. Study your lines and get ready for "lights, camera, action!"

### **LATIN 3A** - One Trimester/.5 Credit

*(PREREQUISITE: Latin 2B)*

**Grades: 9-12**

**MVUL3A**

This course is the first in a two-course sequence. Take your knowledge and appreciation of Latin to the next level. Read some of the best Latin prose and poetry ever written or spoken. Let Caesar tell you how he conquered the three parts of Gaul. Be moved by the eloquence of Cicero as he reminds Romans of the virtues that made their country great. And marvel at how Catullus could express the deepest human emotions in just a few, well-chosen words. In Latin 3, you will visit our library of great authors. Your library card will give you access to the timeless words of the greatest Roman poets, storytellers and orators. Your skills with the Latin language will give you direct access to the beauty and power of their thoughts. The purpose of this course is to strengthen your Latin vocabulary as well as your appreciation for well-crafted writing. You will go directly to the source and recognize why Latin and those who spoke it are still relevant today.

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### **LATIN 3B** - One Trimester/.5 Credit

*(PREREQUISITE: Latin 3A)*

**Grades: 9-12**

**MVUL3B**

This course is the second in a two-course sequence. Take your knowledge and appreciation of Latin to the next level. Read some of the best Latin prose and poetry ever written or spoken. Let Caesar tell you how he conquered the three parts of Gaul. Be moved by the eloquence of Cicero as he reminds Romans of the virtues that made their country great. And marvel at how Catullus could express the deepest human emotions in just a few, well-chosen words. In Latin 3, you will visit our library of great authors. Your library card will give you access to the timeless words of the greatest Roman poets, storytellers and orators. Your skills with the Latin language will give you direct access to the beauty and power of their thoughts. The purpose of this course is to strengthen your Latin vocabulary as well as your appreciation for well-crafted writing. You will go directly to the source and recognize why Latin and those who spoke it are still relevant today.

### **SPANISH 1A (MIDDLEBURY)** - One Trimester/.5 Credit

**Grades: 9-12**

**MVUS1AM**

This course is the first in a two-course sequence. This course provides the fundamental tools necessary for students to acquire language competency in reading, writing, listening, speaking and culture. Students' progress through lessons that introduce a theme (introductions, going to school, ordering food, etc.) as well as appropriate vocabulary, grammar, and cultural information that equips them to communicate about that theme and accomplish relevant tasks in a Spanish-speaking environment. Students participate in several interactive exercises that help them make educated guesses about the meaning of new structures, demonstrate comprehension, and finally create chunks of language using target structures in each weekly lesson.

### **SPANISH 1B (MIDDLEBURY)** - One Trimester/.5 Credit

*(PREREQUISITE: Spanish 1A)*

**Grades: 9-12**

**MVUS1BM**

This course is the second in a two-course sequence. This course provides the fundamental tools necessary for students to acquire language competency in reading, writing, listening, speaking and culture. Students' progress through lessons that introduce a theme (introductions, going to school, ordering food, etc.) as well as appropriate vocabulary, grammar, and cultural information that equips them to communicate about that theme and accomplish relevant tasks in a Spanish-speaking environment. Students participate in several interactive exercises that help them make educated guesses about the meaning of new structures, demonstrate comprehension, and finally create chunks of language using target structures in each weekly lesson.

### **SPANISH 2A (MIDDLEBURY)** - One Trimester/.5 Credit

*(PREREQUISITE: Spanish 1B)*

**Grades: 9-12**

**MVUS2AM**

This course is the first in a two-course sequence. Students continue their study of Spanish by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.

## Online Learning – Michigan Virtual University

Online learning is educational content and instruction that is delivered via the internet. Content and instruction are delivered through a variety of methods including text, audio, video, simulations and other interactive tools. Students and instructors most often interact asynchronously (interactions separated by time), through email, discussion forums and announcements, though some courses require synchronous communication (no time lapse), such as through video conferencing tools.

### **SPANISH 2B (MIDDLEBURY) - One Trimester/.5 Credit**

*(PREREQUISITE: Spanish 2A)*

**Grades: 9-12**

**MVUSP2BM**

This course is the second in a two-course sequence. Students continue their study of Spanish by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit.

### **SPANISH 3A (MIDDLEBURY) - One Trimester/.5 Credit**

*(PREREQUISITE: Spanish 2B)*

**Grades: 9-12**

**MVUSP3AM**

This course is the first in a two-course sequence. This fluency level course is targeted to students that can infer meaning from clues or from prior knowledge, voluntarily ask questions, and use higher level thinking skills. The student is intentionally presented with language they will not understand, with the specific objective of making hypotheses and inferring meaning based on what they do know—such as reading body language, facial expressions, and recognizing familiar locations and objects. This kind of discourse resembles the real world in that there is a focus on meaning, a gap in meaning exists, and there is a goal to work towards. Students will interact with partners or with groups to accomplish projects that in verb real-world communication skills in the target language. Web Quests are task-based activities where the students have to perform a task by researching different pre-selected resources. Using authentic documents (text, audio, video, images) in the target language to expose students to the language is a cornerstone in this course.

### **SPANISH 3B (MIDDLEBURY) - One Trimester/.5 Credit**

*(PREREQUISITE: Spanish 3A)*

**Grades: 9-12**

**MVUSP3BM**

This course is the second in a two-course sequence. This fluency level course is targeted to students that can infer meaning from clues or from prior knowledge, voluntarily ask questions, and use higher level thinking skills. The student is intentionally presented with language they will not understand, with the specific objective of making hypotheses and inferring meaning based on what they do know—such as reading body language, facial expressions, and recognizing familiar locations and objects. This kind of discourse resembles the real world in that there is a focus on meaning, a gap in meaning exists, and there is a goal to work towards. Students will interact with partners or with groups to accomplish projects that in verb real-world communication skills in the target language. Web Quests are task-based activities where the students have to perform a task by researching different pre-selected resources. Using authentic documents (text, audio, video, images) in the target language to expose students to the language is a cornerstone in this course.

## 5 YEAR EDUCATIONAL DEVELOPMENT PLAN

This template allows students to plan for their high school experience. The 8th Grade year should be filled in with the classes that were already taken. High school classes selected should reflect each student's interest in their **chosen Career Pathway**. Throughout the entire high school experience there will be many opportunities to adjust this education plan. Mandatory classes have already been filled in, The number in the ( ) is the credit awarded for each class. Two High School EDP examples are displayed below.

	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>English &amp; Language Arts</b>	Language Arts	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
<b>Math</b>	Math	Algebra 1 (1) Math 1	Geometry (1) Math 2	Algebra 2 (1) Math 3	Senior Math (1)
<b>Science</b>	Science	Biology (1)	Chemistry (1)	Physics (1)	
<b>Social Studies</b>	US History	U.S. History & Geography (1)	Economics (.5) Civics (.5)	World Hist & Geography (1)	
<b>Physical Ed. &amp; Health</b>					
<b>Foreign Languages</b>					
<b>Other Electives</b>					
<b>Arts &amp; Communication</b>					
<b>Business Mgmt &amp; Marketing</b>					
<b>Engineering, Manufacturing &amp; Industrial Tech</b>					
<b>Health Sciences</b>					
<b>Human Services</b>					
<b>Natural Resources &amp; Agriscience</b>					
<b>Special Services</b>					

Example #1

### Electrical Engineering

Freshman	Sophomore	Junior	Senior
English 9	English 10	English 11	English 12
Algebra 1	Geometry	Algebra 2	Trigonometry
Biology	Chemistry	Physics	Renewable Energy 2
U.S. Hist & Geog.	Civics & Economics	World Hist & Geog	
Health	Draft & Design Fund	Renewable Energy 1	Advanced CAD
Phys Ed	Basic CAD	Robotics	Physics, AP
Engineering Principles	Electives		Elective
Electives		Electives	Advanced Robotics

Example #2

### Performing Arts / Music

Freshman	Sophomore	Junior	Senior
English 9	English 10	English 11	English 12
Algebra 1	Geometry	Algebra 2	Math
Biology	Chemistry	Physics	Music Dept
U.S. Hist & Geog	Civics & Economics	World Hist. & Geog	Music Dept
Health	Intro to Mass Media Comm.	Music Dept	Music Dept
Internet & Comp Apps	Music Dept	Music Dept	Electives
Phys Ed	Music Dept	Electives	
Music Dept	Electives		