

William Mason High School



Program of Studies 2024-2025

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hs.masonohioschools.com

[المترجم الى اللغة العربية للدراسات MHS برنامج](#)

[23-24 MHS 研究計劃](#)

[23-24 MHS 研究プログラム](#)

[23-24 Programa de estudios de MHS](#)

[23-24 MHS o'quv dasturi](#)

[23-24 Программа обучения MHS](#)

[23-24 MHS 연구 프로그램](#)

[अध्ययन के 23-24 एमएचएस कार्यक्रम](#)



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Graduation Requirements:

It is the responsibility of the student and family to be knowledgeable about the graduation requirements and plan coursework that allows them to meet those requirements. The high school will make every effort to keep up-to-date records and to inform the student and parents about the student's progress toward the completion of graduation requirements. Ensuring that students meet graduation requirements is an important goal for all of our students and requires a partnership between the high staff, students, and parents. All of the graduation requirements can be found on the [Ohio Department of Education Website](#).

[Graduation Requirements for Classes of 2023 and beyond](#)

Graduation Requirements for Class of 2023 and Beyond

Content Area	Specific Course Requirements	Number of Required Credits
English Language Arts	English I or Honors English I English II or Honors English II English III or AP Language & Composition English IV or AP Literature & Composition	4
Math	Must include Algebra II equivalent course	4
Science	Physical Science equivalent course Biology	3
Social Studies	World History American History American Government (.5 credit)	3
Physical Education		.5 or PE waiver*
Health		.5
Financial Literacy		.5
Fine Arts		1
Elective Credits		5
Total Minimum Credits to Graduate		21.5

**Please see PE waiver section for explanation about PE waiver*

Ohio Graduation Seals

Overview: State law created a system of 12 diploma seals, including three locally defined seals for students to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions. Each seal allows students to demonstrate knowledge and skills essential for future success in their chosen post-high school paths. *Students must earn two seals to qualify for a high school diploma, only one of which may be a locally defined diploma seal.*

[Click here](#) to see more information regarding the Ohio Graduation Seals.

Mason High School Student Schedule Change Guidelines

Mason High School takes several steps to ensure that students and their families are equipped to make informed decisions about their course requests and course planning while they are at Mason High School. Communication with students and families during the scheduling process includes conversations regarding course descriptions, graduation requirements, and recommendations from teachers and counselors. Staff assignments and the master schedule are created and formalized based on student requests. Changes in student course requests have a serious impact on class size, teacher assignments, and the master schedule. As students and families are planning course requests for the upcoming year, it is very important that they make their selections based on the premise that the number of sections of each course are determined based upon the number of original student requests to ensure staffing decisions are made to meet the learning needs of students through the lens of fiscal responsibility.

THEREFORE, MARCH 22, 2024 is the absolute last date for course request changes. Students can make course request changes through their school counselor through March 22, 2024. There will be NO schedule changes from March 23 through August 15. After this date, the ONLY adjustments that will be made are for students that are:

- Missing a core academic class/classes
- Have incomplete schedules
- Replacement of summer school course/courses successfully completed
- Schedule adjustments due to educational options such as credit flexibility or College Credit Plus

Note: All requests for schedule changes are contingent upon course availability, class size and course prerequisites. Schedule Changes will not be permitted on the basis of teaching style, personality, time of day, lunch schedule, or allow for late arrival or early dismissal.

Students who wish to drop a class or change classes must do so during the first **5 days** of the start of each semester.

- 2024-2025 Schedule Change Dates:
 - First Semester: **August 15- August 21, 2024**
 - Second Semester: **January 6 - January 10, 2025**
- If a student drops a class that they are passing (grade of A through D-) between **August 21 - October 11, 2024** (end of first quarter) or between **January 16 - March 14, 2025** (end of third quarter):
 - No class can be added and it will result in a non-credit bearing class such as Study hall.
- If a student drops a class after **October 11, 2024** (end of the 1st Quarter) or after **March 14, 2025** (end of the 3rd Quarter):
 - A "Withdraw Fail" (WF) will be posted on a student's transcript as a record of their course history and be calculated into their GPA.
- Students will not be permitted to add a course to their schedule after the first 5 days of each semester except for a Study Hall or level change. This is to promote the success of students in all of their courses.
- Students will not be permitted to change a level (for example, Honors Algebra 2 to Algebra 2) after the first 10 days from the start of the course.

Physical Education Waiver Option:

This Physical Education Option is available to students (grade 9-12) participating in Mason High School Interscholastic Sports, Cheerleading, and/or the Marching Band/Color Guard (see below for a complete list). Daily participation paralleling the official sport season must be successfully completed and approved by each respective coach/director.

Qualifying Mason High School Activities:

Football	Cross Country	Golf	Tennis	Ice Hockey
Competition Swimming/Diving	Volleyball	Basketball	Water Polo	Wrestling
Baseball	Dance Team	Softball	Track & Field	Lacrosse
Bowling	Soccer	Marching Band	Sideline Cheerleading	
Ultimate Frisbee (Both Fall & Spring Seasons)				

To qualify for the Physical Education Waiver, a student must complete two (2) full-seasons in one or more qualifying activities. Once successfully completed, the two (2) Physical Education classes (1/4 credit each) required to meet MHS graduation requirements will be waived.

As well:

1. A student cannot mix one P.E. class with one activity to meet the MHS graduation requirement. A student must successfully complete two activities or successfully complete two P.E. classes to meet the graduation requirement.
2. No credit is earned toward graduation requirements for participation in the activities. Students opting for the PE waiver will be required to fulfill the minimum 22 credits for graduation by successfully completing another class offering.
3. The P.E. waiver does NOT include Health. All students are required to successfully complete Health class to meet the graduation requirement.

Credits Earned at Mason Middle School:

High school coursework completed at the middle school level will count toward minimum graduation requirements and high school GPA if:

1. The course is taught by a teacher that is licensed or certified for teaching the course in high school, **and**
2. The course meets the high school curriculum requirements as designated by the Board of Education.

Courses earning high school credit at Mason Middle School (as of 2017-18) include:

Algebra I (1.0 CREDIT)

Honors Geometry (1.0 CREDIT)

Physical Science (1.0 CREDIT)

Spanish I (1.0 CREDIT)

Health Education (0.5 CREDIT)

Physical Education (0.25 CREDIT)

Exploration of Art 888A (0.25 CREDIT)

Exploration of Art 888B (0.25 CREDIT)

Digital Image Design (0.5 CREDIT)

Introduction to Bel Canto Choir (0.5 CREDIT)

Introduction to Concert Band (0.5 CREDIT)

Introduction to Freshman Orchestra (0.5 CREDIT)

College Entrance Recommendations:

College entrance requirements vary. The following courses are recommended for a strong college preparatory program.

English	4 credits
Math	4 credits
Science	4 credits

Social Studies	4 credits
World Languages	2-3 credits
Fine Arts	1 credit

Ohio Honors Diploma Options & Criteria:

High school students can gain state recognition for exceeding Ohio's graduation requirements through an honors diploma. Students challenge themselves by taking and succeeding at high-level coursework and in real-world experiences.

Ohio students have the opportunity to choose to pursue one of six honors diplomas:

1. Academic Honors Diploma
2. International Baccalaureate Honors Diploma
3. Career Tech Honors Diploma
4. STEM Honors Diploma
5. Arts Honors Diploma*
6. Social Science and Civic Engagement Honors Diploma

*includes dance, drama/theater, music and visual art.

To learn more about the Ohio Honors Diploma Options & Criteria please use the following resources below:

[Ohio Department of Education Honors Diplomas Information](#)

[Mason High School ODE Honors Diploma Options for Student](#)

Grade Point Average Calculation

All grades earned at Mason High School and high school credits earned at Mason Middle School will count in the calculation of the student's grade point average (as of 2014-15.) Grade point averages will be calculated and rounded to two decimal places on a 4.0 Weighted Scale. Advanced Placement/Honors courses in which a grade of "C" or higher is earned will receive the appropriate weighted credit for each designated course. College Credit Plus courses successfully completed may, with a grade of "C" or higher, be calculated into the student's grade point average with the appropriate weighted credit for each course (see College Credit Plus.)

Grade-Point Average (GPA) Calculation for Class of 2023 and beyond

All grades earned at Mason High School and high school credits earned at Mason Middle School will count in the calculation of the student's grade point average.

When calculating GPA for the Class of 2023 and beyond, Mason High School will award quality points for all courses as follows for .5 credit semester course on a 4.0 Weighted Grading Scale:

AP/CCP	Honors	All other courses
A = 2.5	A = 2.25	A = 2.0
B = 2.0	B = 1.75	B = 1.5
C = 1.5	C = 1.25	C = 1.0

D = 0.5	D = 0.5	D = 0.5
F = 0.0	F = 0.0	F = 0.0

Grade point averages will be calculated and rounded to two decimal places.

Weighted Credit Guidelines for Students Transferring to MHS

Students who transfer to Mason High School from another district will be eligible to receive weighted credit in all courses that are comparable to the honors or Advanced Placement courses that Mason High School offers. Transfer students will receive weighted credit for only those courses. Honors courses not offered at Mason High School that are on a student's transcript will not receive weighted credit but will be designated with their original title.

Career Education Programs

Mason High School partners with Great Oaks Institute of Technology and Career Development, who provide many Career Technology programs preparing junior and senior students for the immediate workforce. Please contact your school counselor for a complete listing of the Career Tech programs.

Requirements needed by the end of sophomore year:

English	2 credits
Math	2 credits
Science	1 credit
Social Studies	1 credit
Physical Education	.5 credit
Health	.5 credit

College Credit Plus

College Credit Plus is Ohio's Dual Enrollment Program. Mason High School and several local Institutions of Higher Education (IHE) have partnered to offer both high school and college credit for selected courses. These courses are college courses with the same rigor and demands of the same course taken on a college campus. If students wish to participate in the CCP Program, they are required to complete a Letter of Intent to Participate by 11:59 pm on April 1, 2024 for the 2024-2025 School Year. This form will need to be submitted for each year that a student may be interested in taking courses.

Participation in College Credit Plus may help students to reduce their time in pursuing a certificate or degree. Below are examples of course pathways that students can take at local Institutions of Higher Education (IHE) to meet some or all of the requirements of a particular degree or certification at a college. These are just examples, and students are not required to enroll in these specific courses in order to participate in College Credit Plus.

Cincinnati State 15 Credit Hour Pathway Examples	Cincinnati State 30 Credit Hour Pathway Examples
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[Miami University 15 Credit and 30 Credit Hour Pathway General Education Examples](#)

[Sinclair Community College Career and Transfer Pathway Examples](#)

To learn more about the College Credit Plus program opportunities available to students in Mason City Schools, please refer to the MCS College Credit Plus Handbook by [clicking here](#) or the MCS College Credit Plus website by [clicking here](#).

Please also visit <https://highered.ohio.gov/initiatives/access-acceleration/college-credit-plus/ccp-home> for further information about the College Credit Plus program.

Tech Ready Competency Certification and Articulation Agreements

Note: Any student interested in obtaining certification must begin the program by their sophomore year.

The Mason High School Tech Ready Certification Program provides a seamless educational curriculum in grades 9 through 12 that could lead to advanced standing in selected programs at several local colleges. In addition, through the integration of academic, technological, and employability skills, students may be eligible to enter technology occupations immediately after high school graduation. Students can earn a Mason High School certification by demonstrating specific competencies in the selected Tech Ready Program. Students must not have academic deficiencies and complete all listed courses with a grade of "C" or better to earn a competency certificate from Mason High School for a particular program.

See course descriptions as listed under the appropriate department. Where required, prerequisites are indicated.

Business Technology (Business Dept)	CNC Technology (3 courses needed) (Applied Tech Dept)	Social Studies Department	Computer Graphic Applications	Computer Programming (4 courses needed) (Applied Tech Dept)	CAD Technology (3 courses needed) (Applied Tech Dept)
-Professional Communications & Digital Literacy -Financial Literacy -Computer Applications for College OR Microsoft Office Certification OR Honors Microsoft Office Certification -Banking & Investments OR Innovation and Entrepreneurship OR Integrated Media	-Computer-Aided Design (CAD) -Computer-Aided Manufacturing I -Computer-Aided Manufacturing II -Computer-Aided Manufacturing III	-Economics -AP Macro OR Microeconomics	-Digital Imaging Design I -Any DID and Design Studio Internship	-Computer Programming I -Honors Computer Programming II -Honors Computer Programming III -AP Computer Science	-Computer-Aided Design (CAD) -Advanced AutoCAD -Engineering OR Architecture CAD

Advanced Placement Classes

In preparation for the college experience, students are encouraged to take Advanced Placement classes in their areas of interest or strength. Colleges and universities look favorably upon students who take rigorous courses of study. AP test results of 3, 4, or 5 may qualify students for college credit. Advanced Placement classes not only prepare students for college, but can also translate into financial savings.

INTRODUCTION

The Advanced Placement Program (AP) program is a set of college-level courses taught by your high school teachers. AP course content is developed in conjunction with college faculty who teach the corresponding introductory courses on college campuses across the United States. AP teachers at Mason High School develop their own syllabi, which must be approved by the College Board through an audit process. Many state universities accept a score of "3" or above out of a 5-point scale on the AP exam in May as evidence that the student has met the requirements for a college course. This allows students to earn college credits while still in high school.

College Board resources for students and teachers who are involved with AP program:

- o One of the resources is how students register for the AP exam.
- o All high schools that offer AP courses will register their students for the AP exams in early October.
- o In addition, the process is an online process managed by the College Board. This will allow students to do the pre-registration process for exams in a more efficient manner and reduce the amount of class time that was typically used for this process in the past. It also reduces the potential for errors when scoring assessments and delays in getting scores to students or post-secondary institutions.
- o There is an entire online resource center available to students that includes testing resources to help them prepare for the exams.

How does this impact students at MHS?

PLEASE TAKE THESE FACTORS INTO CONSIDERATION WHEN PLANNING YOUR COURSE REQUESTS FOR THE 2024-2025 SCHOOL YEAR

- o Due to the timing of registering for the exams through College Board and ensuring all of our students who are enrolled in AP courses have access to the online resources as soon as possible, **all students who are enrolled in an AP course will be registered to take the AP exam by November 2024.**
- o The cost of the exam for the 2023-2024 School Year is \$97.00. The College Board has not published the cost for the AP exam for the 2024-2025 school year, but the cost is not expected to increase more than \$1-2.
- o If a student decides to opt out of taking the AP exam in a particular course, they can make that decision by **November 1, 2024** without incurring any fee. After that date, exams will be ordered and no fee adjustments/refunds will be given.

[MHS AP Exam Information Site](#)

For more information about AP through College Board, please visit this [website link](#).

WHO TAKES AP COURSES?

AP courses are open to all students. Some AP courses have pre-requisite courses necessary for enrollment, while others have recommended coursework. Please refer to the course description section of the program of studies for details on the courses that interest you. Students who choose to enroll in an AP course seek academic challenges and recognize that they will be reading college-level textbooks and completing college-level assignments throughout the course. Students will find that the course content requires them to use higher order thinking skills to analyze, apply, synthesize, and evaluate course content on a consistent basis. Most students that choose to take an AP course describe their AP courses as moving at faster pace than their other courses, more reading, a need to study course content most nights to understand content fully, and a need to study with a network of peers.

Students who are successful in AP courses have a strong interest in the subject they are taking, are self-motivated learners, and have effective self-monitoring skills such as time management, task planning, and seeking assistance when needed.

Students interested in taking AP courses are encouraged to take courses that will help them prepare for the analytical skills, reading skills, and writing skills necessary for a college-level course.

Independent Study

The opportunity for Independent Study is made available to the student who has the time, energy, and motivation to pursue additional work. This program is not designed to take the place of regular courses that are offered in the curriculum, but to broaden it by offering the opportunity for the in-depth study of a topic of interest. The student designs his/her course of study with the assistance of a mentor teacher. In addition to Independent Study, the student enrolled is required to carry six courses per day. Independent Study cannot replace minimum graduation requirements.

Credit Flexibility

Credit flexibility shifts the focus from “seat time” to performance. Students can earn units of high school credit based on an individually approved credit flexibility plan. The intent of credit flexibility is to meet increased expectations for high school graduation in response to globalization, technology and demographics, and to meet the demand for 21st century skills. Students can earn high school credit by:

1. Completing coursework;
2. Showing mastery of course content;
3. Pursuing an educational option and/or an individually approved option and/or
4. Any combination of the above.

Mason Credit Flexibility information, the application, and important dates for each semester are available by clicking this [link](#). We highly encourage any student Interested in Credit Flexibility to schedule a meeting with their school counselor to learn more information.

Service Learning Credit

Junior and senior students can earn a one-time non-weighted .5 credit by completing 50 hours of service work. In addition to performing the service, each student will be expected to complete a reflection. Upon satisfactory completion of the reflection, the student’s transcript will reflect .5 credit for service learning.

These guidelines apply:

1. An application for service learning must be completed and submitted at the beginning of each semester. Failure to do so may result in removal from service learning and placement into a study hall.
2. Hours must be completed at a non-profit organization or for an organized volunteer program. Community service will not be accepted when there is opportunity to earn money or other payment for services.
3. Community service hours may be earned during the school day:
 - a. During 1st or 7th bell
 - b. When supervised by a Mason City School staff member or club sponsor,
 - c. When occurring as a service-learning project as part of a curricular or co-curricular activity approved by a principal.
4. The grade that is earned will appear on the transcript.

Service Learning Applications are available on Schoology. We highly encourage any student interested in this opportunity to schedule a meeting with their school counselor prior to requesting this option for the upcoming academic year.

Career Exploration

Career Exploration allows juniors and seniors to earn a ½ elective credit by working outside of school at a legitimate place of business **AND/OR** completing various college/career exploration activities through our Experiential Learning program. Students can take Career Exploration either 1st or 7th bell. On most days 1st bell students will have late arrival and 7th bell students will have early release. Students will need to attend a weekly session (during 1st or 7th bell, depending on individual student schedules) to complete the Experiential Learning components of the course. The course is assessed Pass or Fail.

Senior/Junior Late Arrival/Early Release Option

Seniors/Juniors that are in **good academic standing** and are on track for graduation including meeting the requirements below.

- Meeting competency on the End-of-Course assessments
- On track to meet two graduation seals

Late arrival/early release option may be dropped from a student's schedule if there is a change in academic standing.

Summer School

Mason High School offers limited educational opportunities for students during the summer months. Students can enroll in original credit courses and/or recovery credit core courses that were taken during the academic year. All students must reside in the Mason City School District and be upcoming 9-12th grade students. Registration forms, with course offerings (and cost), can be found on the High School page of masonohioschools.com or Schoology.

Early Completion

In order to request Early Completion, the following must be met:

Curricular Requirements:

The student's schedule for his/her final year must be approved by the School Counseling Department which, along with credits already received, shall indicate the following:

1. Student's schedule must indicate a minimum of six (6) courses in the fall semester.
2. Student's completion of Graduation requirements for Mason City Schools.
3. Student's completion of state graduation testing requirements via one of the graduation pathways defined by the Ohio Department of Education.

Additional Requirements:

1. If prior to the spring semester of their senior year and all state and local Board requirements are met for graduation, the student will be considered an alumnus.
2. It is understood that the alumnus forfeits the right to participate in all school activities after completion of his/her school attendance, except that year's prom and commencement exercises.

Procedures:

Application cannot be made until the successful completion of the fall semester of their junior year. After this time, the student shall check with the School Counseling Department to see if the above requirements will have been met by the anticipated early completion date. If so, the School Counseling Department shall give the student an application requesting early completion. The application shall contain the following:

1. Courses taken and credits earned with verification by a school counselor.
2. Graduation testing requirements met with verification by a school counselor or MHS testing coordinator.
3. Evidence of parental/guardian approval.
4. Building principal approval.

College Entrance Tests (ACT/SAT opportunities)

College entrance tests are given several times a year according to dates and test centers established by the testing company. A typical testing program for college bound students is as follows:

- **Optional PSAT (Preliminary Scholastic Assessment Test) - by registration only**

Mason High School administers the PSAT to 11th grade students. Besides being a good practice session for the SAT I, 11th grade results, if they meet annual benchmarks, will qualify a student for National Merit and/or National Achievement and/or National Hispanic Scholar Award

- **ACT (American College Test)**

Students should take the ACT by April or June of their junior year, and if necessary, by September of their senior year.

- **SAT I (Scholastic Assessment Test)**

Students should take the SAT by May or June of their junior year and, if necessary, in the fall of their senior year.

- **State Funded ACT Tests** State law requires districts and community schools to administer the state-funded ACT or SAT to all grade 11 students in the spring of the school year. Each year, districts and schools will select the test to administer to their juniors.

Students themselves must be aware of the test requirements for individual colleges and testing dates. If they have questions, they should contact their school counselor.

National Collegiate Athletic Association (NCAA) Eligibility

If you wish to participate in NCAA Division I or Division II athletics, you need to be certified by the NCAA Eligibility Center. You need to qualify academically as well as be cleared as an amateur student-athlete. NCAA guidelines are briefly stated to meet Core Course Requirements for eligibility:

FULL QUALIFIER: College-bound student-athletes enrolling at an NCAA Division I school need to meet these academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.

- Complete 16 core courses in the appropriate areas.
- Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
- Seven of the 10 core courses must be in English, math or natural/physical science.
- Earn a core-course GPA of at least 2.300.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale.
- Submit proof of graduation to the Eligibility Center.

ACADEMIC REDSHIRT: All Division I academic redshirts may receive an athletics scholarship and practice during their first year of full-time enrollment at a Division I school, but may NOT compete.

- Complete 16 core courses in the appropriate areas.
- Earn a core-course GPA of at least 2.000.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale.
- Submit proof of grad

If you may contact the NCAA Eligibility Center at (877)262-1492 or visit www.eligibilitycenter.org. Students interested in participating in athletics at the NCAA level should speak with their coach for appropriate division levels, and to their high school school counselor regarding the initial academic eligibility requirements set by the NCAA. College-bound Student-Athletes should complete the registration process with the NCAA Eligibility Center at the end of their junior year at www.eligibilitycenter.org.

***Recovery credit courses, earned through APEX, are not currently certified by the NCAA Clearinghouse.**

*** See your Coach and School Counselor for more NCAA information**

Scheduling Process Overview

The key to successful program planning is involvement. Our ultimate goal is for each student to have a program that will provide a meaningful and successful educational experience. In order to achieve this goal, we believe it is necessary for administrators, school counselors, and teachers to provide information, counseling, and appropriate recommendations to enable the student and their families to make informed decisions. The ultimate responsibility for the selection of courses to be included in the student course requests rests with the student and their families. This is an important decision, which can have a great impact on the student's educational progress and, therefore, should be given very careful consideration. The Program of Studies resource gives a brief resume of content, prerequisites, and expectations of each course. Students and families are urged to become familiar with all course request materials and to contact their school counseling team or Robyn Jordan (Associate Principal of Teaching & Learning) with any questions about the course request process.

Course Request Process:

1. Become familiar with the course offerings in the Program of Studies resource & on the course selector sheet for your specific grade level in the 2023-24 school year.
2. Develop a sequence of required and elective courses to meet graduation requirements and to facilitate post-secondary plans using the planning worksheets found on the [MHS Scheduling site](#).
3. Discuss possible course requests with families.
4. Discuss possible course requests with teachers and get recommendations for courses that require them from teachers on course selector sheets.
5. If you have questions about the course request process, sequence of courses, a particular program or option, schedule a time to meet with a school counselor.
6. Review course requests with family.
7. Submit course requests using Home Access Center during designated time.
8. Students can verify course requests utilizing HAC accounts. School counselors will also be verifying individual student requests and talking individually with students that may need to make changes in their course requests.
9. Course request changes can be made through **May 12, 2023** with your school counselor. All course requests are final after this date.

Scheduling Tool

Mason High School strives to create rigorous, meaningful, and relevant learning experiences that support overall student wellness. The scheduling tool is a visual way to help students organize and manage their workload for academic courses for the school year. Each course in the program of studies will have a symbol next to the course name. The symbol represents an estimate of the time spent on homework each night. This is an approximate time spent on homework for the course. Daily homework times may vary based on student learning needs, student focus, keeping distractions to a minimum, etc. The scheduling tool is not a measure of the rigor of a course. The scheduling tool, however, is a way for students to plan a balanced course load while prioritizing their own health and mental wellness. The scheduling tool legend is below.

0-15 mins	
16-30 mins	

31-45 mins	MMM
46-60 mins	MMMM
Hour+	MMMMM

Mason High School Post-Secondary Learning Pathways

Mason High School has many different learning opportunities for students during their four years in high school. The post-secondary learning pathways utilize the [Ohio Means Jobs](#) career clusters as a guide for students as they plan their course selections during their time at MHS. The post-secondary learning pathways are meant to be an overview of different post-secondary options available to students and the different learning options available to students at MHS that align with those post-secondary options that will allow students to explore the different learning pathways while in high school. There are many different opportunities available to students after high school other than those that may be outlined in these post-secondary learning pathways; these are meant to be general guidelines to help students in their course planning.

Agriculture & Environmental Science Post-Secondary Learning Pathway	
<p>MHS Elective Options <i>(these elective options are only suggestions - students may explore other elective options to fulfill elective requirements)</i></p> <p>Business Technology Professional Communications & Digital Literacy Computer Applications for College Accounting Honors Financial Accounting Principles of Marketing Banking & Investments Small Business Management Internship Innovation & Entrepreneurship Communication & Leadership Development Honors Microsoft Office Certification</p> <p>Social Studies Economics AP Macroeconomics AP Microeconomics</p> <p>Science Environmental Science Food Science Physics AP Physics I</p>	<p>Post-Secondary Career Opportunities</p> <p>Livestock Management Environmental Technician Environmental Specialist Natural Sciences Manager Environmental Engineer Agricultural Business Agricultural Inspector Quality Control Specialist Food Scientist Geoscientist Petroleum Process Operator Crop Producer Greenhouse Manager Petroleum Engineer Pipeline Operator Petroleum Technician Forestry Manager Arborist Veterinarian Veterinarian Technician Veterinarian Assistant Water Plant Manager Utilities Director Water Plant Operator</p>

<p>AP Physics C: Mechanics AP Physics C: E & M Chemistry Physical Geology: Earth Materials & Earth Processes Human Anatomy & Physiology</p> <p>Math Algebra II Precalculus Mathematical Models & Reasoning Calculus AP Statistics AP Calculus AB AP Calculus BC</p> <p>Non-Departmental College 101 Experiential Learning - Internships</p>	<p><u>Post-Secondary Program Options:</u> Horticulture Science Livestock Management Environmental Science Agricultural Business Food Science & Technology Natural Sciences Petroleum Technology Urban Forestry Pre-Veterinarian Veterinarian Assistant Veterinarian Technology</p> <p><u>Scarlet Oaks Program Options</u> <i>(students can begin to explore Scarlet Oaks in their 10th grade year)</i> Veterinary Assisting</p>
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Law & Public Safety Post-Secondary Learning Pathway	
<p><u>MHS Elective Options</u> <i>(these elective options are only suggestions - students may explore other elective options to fulfill elective requirements)</i></p> <p>Business Technology Professional Communications & Digital Literacy Computer Applications for College Communication & Leadership Development Honors Microsoft Office Certification</p> <p>Social Studies Psychology Sociology Current Global Issues Law & Criminal Justice AP Psychology</p> <p>Science Forensic Science Cold Case: Forensic Science Extension Cold Case: Forensic Science Capstone Chemistry Human Anatomy & Physiology</p> <p>Math Algebra II Precalculus Mathematical Models & Reasoning Calculus AP Statistics AP Calculus AB AP Calculus BC</p> <p>PE/Health Mind & Body Wellness Strength Training Advanced Strength Training</p>	<p><u>Post-Secondary Career Opportunities</u> Paramedic Emergency Medical Technician Corrections Officer Police Officer Firefighter Homeland Security Officer TSA Lawyer Child Protection Worker Forensic Psychologist Military</p> <p><u>Post-Secondary Program Options:</u> Criminology Criminal Justice Pre-Law Police/Fire Academy Emergency Medical Technician Psychology Military</p> <p><u>Scarlet Oaks Program Options</u> <i>(students can begin to explore Scarlet Oaks in their 10th grade year)</i> Firefighting and Emergency Medical Training Law Enforcement</p>

Non-Departmental College 101 Experiential Learning - Internships	
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Information Technology Post-Secondary Learning Pathway	
<p>MHS Elective Options <i>(these elective options are only suggestions - students may explore other elective options to fulfill elective requirements)</i></p> <p>Business Technology Professional Communications & Digital Literacy Computer Applications for College Accounting Honors Financial Accounting Principles of Marketing Innovation & Entrepreneurship Communication & Leadership Development Honors Microsoft Office Certification Honors Microsoft Office Certification Expert Level Integrated Media Internship Advanced Production Lab (IMI)</p> <p>Social Studies Economics AP Macroeconomics AP Microeconomics Sociology</p> <p>Applied Technology Computer Programming I Honors Computer Programming II Honors Computer Programming III AP Computer Programming AP Computer Science Principles Cybersecurity 1</p> <p>Visual Arts Digital Image Design I Digital Image Design II (any)</p> <p>Math Algebra II Precalculus Mathematical Models & Reasoning Calculus AP Statistics AP Calculus AB AP Calculus BC</p> <p>Non-Departmental College 101 Experiential Learning - Internships</p>	<p><u>Post-Secondary Career Opportunities</u> IT Project Manager Computer Systems Analyst Web Developer Computer Network Architect Network & Computer Systems Administrator Computer Hardware Engineer Database Administrator Computer Programmer Software Developer Information Systems Manager</p> <hr/> <p><u>Post-Secondary Program Options:</u> Systems Analysis Information Technology Computer Engineering Computer Information Systems IT Project Management Computer Information Science</p> <p><u>Scarlet Oaks Program Options</u> <i>(students can begin to explore Scarlet Oaks in their 10th grade year)</i> Web Applications and Game Development</p>

Health Sciences Post-Secondary Learning Pathway

MHS Elective Options *(these elective options are only suggestions - students may explore other elective options to fulfill elective requirements)*

Business Technology

Professional Communications & Digital Literacy
Computer Applications for College
Honors Microsoft Office Certification
Honors Microsoft Office Certification Expert Level

Social Studies

Psychology
Sociology
AP Psychology

Science

Physics
AP Physics I
AP Physics C: Mechanics
AP Physics C: E & M
Chemistry
Human Anatomy & Physiology
AP Biology
AP Chemistry

Math

Algebra II
Precalculus
Mathematical Models & Reasoning
Calculus
AP Statistics
AP Calculus AB
AP Calculus BC

PE/Health

Strength Training
Advanced Strength Training
Mind & Body Wellness

Non-Departmental

College 101
Experiential Learning - Internships

Post-Secondary Career Opportunities

Doctor
Respiratory Therapist
Patient Care Technician
Nurse
Biomedical Engineer
Phlebotomist
Medical Lab Technician
Medical Scientist
Dentist
Dental Hygienist
Dental Assistant
Physician Assistant
Nurse Anesthetist
Licensed Practical Nurse
Occupational Therapist
Occupational Therapy Assistant
Physical Therapist
Physical Therapy Assistant
Surgeon
Surgical Technology
Surgical Assistant
Pharmacist
Pharmacy Technician
Radiologist
Radiographer
Radiology Technician
Speech Pathologist

Post-Secondary Program Options:

Respiratory Therapy
Pre-Medicine
Nursing
Biomedical Engineering
Medical Lab Technician
Pre-Dentistry
Dental Hygiene
Physician Assistant
Medical Assistant
Occupational Therapy
Physical Therapy
Pharmacology
Pharmacy Technician
Radiologist Technology
Surgical Technology

Great Oaks Program Options *(offered at MHS)*

PLTW Biomedical Sciences

Scarlet Oaks Program Options *(students can begin to explore Scarlet Oaks in their 10th grade year)*

Secondary Practical Nursing
Surgical Technology
Health Technology
Exercise Science and Sports Medicine
Dental Assisting

Education & Training Post-Secondary Learning Pathway	
<p><u>MHS Elective Options</u> <i>(these elective options are only suggestions - students may explore other elective options to fulfill elective requirements)</i></p> <p><u>Business Technology</u> Professional Communications & Digital Literacy Computer Applications for College Integrated Media Internship Communication & Leadership Development Honors Microsoft Office Certification</p> <p><u>Social Studies</u> Psychology AP Psychology Sociology</p> <p><u>Math</u> Algebra II Precalculus Mathematical Models & Reasoning</p> <p><u>Non-Departmental</u> College 101 Experiential Learning - Internships</p>	<p><u>Post-Secondary Career Opportunities</u> Early Childhood Teacher Elementary Teacher Middle School Teacher High School Teacher College Faculty School Counselor School Administrator Special Education Teacher Training Manager/Developer Paraprofessional</p>
	<p><u>Post-Secondary Program Options:</u> Education</p> <p><u>Great Oaks Program Options</u> <i>(offered here at MHS)</i> Teacher Academy</p> <p><u>Scarlet Oaks Program Options</u> <i>(students can begin to explore Scarlet Oaks in their 10th grade year)</i> Early Childhood Education</p>

Engineering & Manufacturing Technologies Post-Secondary Learning Pathway	
<p><u>MHS Elective Options</u> <i>(these elective options are only suggestions - students may explore other elective options to fulfill elective requirements)</i></p> <p><u>Business Technology</u> Professional Communications & Digital Literacy Computer Applications for College Accounting Honors Financial Accounting Communication & Leadership Innovation & Entrepreneurship Communication & Leadership Development Honors Microsoft Office Certification Honors Microsoft Office Certification Expert Level</p> <p><u>Social Studies</u> Psychology Sociology AP Psychology Economics AP Macroeconomics AP Microeconomics</p>	<p><u>Post-Secondary Career Opportunities</u> Chemical Engineer Mechanical Engineer Civil Engineer Aerospace Engineer Electrical Engineer Industrial Engineer Chemist Biologist Statistician Zoologist Meteorologist Physicist Astronomer Manufacturing Engineer Mold Operator Production Technician Machinist</p>

<p><u>Applied Technology</u></p> <p>Computer-Aided Design (CAD) Advanced AutoCAD Engineering CAD Architecture CAD Mason Fabrication Lab Maker 101 Computer-Aided Manufacturing I Computer-Aided Manufacturing II Computer-Aided Manufacturing III</p> <p><u>Science</u></p> <p>Physics AP Physics I AP Physics C: Mechanics AP Physics C: E & M Chemistry Human Anatomy & Physiology AP Biology AP Chemistry</p> <p><u>Math</u></p> <p>Algebra II Precalculus Mathematical Models & Reasoning Calculus AP Statistics AP Calculus AB AP Calculus BC</p> <p><u>Non-Departmental</u></p> <p>College 101 Experiential Learning - Internships</p>	<p><u>Post-Secondary Program Options:</u></p> <p>Engineering Biology Chemistry Physics Zoology Meteorology Statics Astronomy Robotics Systems Technology Machinist Apprenticeships</p> <p><u>Scarlet Oaks Program Options</u> <i>(students can begin to explore Scarlet Oaks in their 10th grade year)</i></p> <p>Engineering Technology and Robotics Construction Framing and Finishing Technologies</p>
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Business, Administration, & Finance Post-Secondary Learning Pathway	
<p><u>MHS Elective Options</u> <i>(these elective options are only suggestions - students may explore other elective options to fulfill elective requirements)</i></p> <p><u>Business Technology</u></p> <p>Professional Communications & Digital Literacy Computer Applications for College Accounting Honors Financial Accounting Principles of Marketing Banking & Investments Small Business Internship Innovation & Entrepreneurship Communication & Leadership Development Integrated Media Internship Advanced Production Lab (IMI) Honors Microsoft Office Certification Honors Microsoft Office Certification Expert Level Comet Savings & Loan Bank Internship</p> <p><u>Social Studies</u></p>	<p><u>Post-Secondary Career Opportunities</u></p> <p>Administrative Assistant Operations Director Office Supervisor Human Resources Manager Lawyer Paralegal Finance Examiner Accountant Loan Officer Bank Manager Financial Adviser Investment Sales Agent Actuary Real Estate Agent Small Business Owner Marketing Treasurer Chief Financial Officer Stock Broker Business Analyst</p>

<p>Economics AP Macroeconomics AP Microeconomics Sociology Psychology AP Psychology Law & Criminal Justice</p> <p>Math Algebra II Precalculus Mathematical Models & Reasoning Calculus AP Statistics AP Calculus AB AP Calculus BC</p> <p>Non-Departmental College 101 Experiential Learning - Internships</p>	<p>Investment Banking Insurance</p>
	<p><u>Post-Secondary Program Options:</u> Business Management Business, Administration & Finance Accounting Marketing Finance Business Office Specialist Business Analytics Economics Entrepreneurship Information Systems Supply Chain & Operations Management Pre-Law Human Resources</p> <p><u>Scarlet Oaks Program Options</u> <i>(students can begin to explore Scarlet Oaks in their 10th grade year)</i> Business Office Specialist</p>

Arts & Communication Post-Secondary Learning Pathway	
<p><u>MHS Elective Options</u> <i>(these elective options are only suggestions - students may explore other elective options to fulfill elective requirements)</i></p> <p>Business Technology Professional Communications & Digital Literacy Computer Applications for College Accounting Honors Financial Accounting Integrated Media Internship Advanced Production Lab (IMI) Innovation & Entrepreneurship Communication & Leadership Development Principles of Marketing Honors Microsoft Office Certification</p> <p>Visual Arts Sculpture I Digital Image Design I & II (any) Photography I, II, & III Drawing & Painting I, II, III, & IV Ceramics I, II, III AP Art Studio AP Art History Cartooning & Illustration Fashion & Design</p> <p>Social Studies Economics AP Macroeconomics</p>	<p><u>Post-Secondary Career Opportunities</u> Graphic Designer Commercial Designer Videographer Audio/Video Technician Technical Director Broadcast news analyst News Director Reporter Choreographer Dancer Art Director Museum Curator Actor Director Producer Composer Musician Author Photographer</p>
	<p><u>Post-Secondary Program Options:</u> Graphic Design Interactive Media Film/Video Production Journalism Broadcast Journalism</p>

<p>AP Microeconomics Sociology</p> <p><u>Applied Technology</u> Computer Programming I AP Computer Science Principles</p> <p><u>Math</u> Algebra II Precalculus Mathematical Models & Reasoning Calculus AP Statistics AP Calculus AB AP Calculus BC</p> <p><u>English</u> Journalism I, II, III Creative Writing I & II</p> <p><u>Performing Arts</u> Introduction to Theater Backstage Theater Actors' Studio Technical Theater Practicum & Design Filmmaking I Filmmaking II Band (all) Choir (all) Orchestra (all)</p> <p><u>Non-Departmental</u> College 101 Experiential Learning - Internships</p>	<p>Communications Dance Theater Music English</p> <p><u>Scarlet Oaks Program Options</u> <i>(students can begin to explore Scarlet Oaks in their 10th grade year)</i> Digital Arts and Design</p>
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Human Services Post-Secondary Learning Pathway	
<p><u>MHS Elective Options</u> <i>(these elective options are only suggestions - students may explore other elective options to fulfill elective requirements)</i></p> <p><u>Business Technology</u> Professional Communications & Digital Literacy Computer Applications for College Communication & Leadership Development Honors Microsoft Office Certification</p> <p><u>Social Studies</u> Psychology AP Psychology Sociology Law & Criminal Justice</p> <p><u>Math</u> Algebra II Precalculus Mathematical Models & Reasoning</p> <p><u>Non-Departmental</u></p>	<p><u>Post-Secondary Career Opportunities</u> Mental Health Counselor Mental Health Social Worker Healthcare Social Worker Family Social Worker Clergy Substance Abuse Services Life Coach</p> <p><u>Post-Secondary Program Options:</u> Social Work Mental Health Counseling Psychology</p>

Course Offerings

APPLIED TECHNOLOGY CREDIT

Computer-Aided Design (CAD)	.5
Advanced AutoCAD	.5
Engineering CAD	.5
Architecture CAD	.5
Mason Fabrication Lab	.5
Maker 101	.5
Computer-Aided Manufacturing I	.5
Computer-Aided Manufacturing II	.5
Computer-Aided Manufacturing III	.5
Computer Programming I	.5
Honors Computer Programming II	.5
Honors Computer Programming III	.5
AP Computer Science	1
AP Computer Science Principles	1
Cybersecurity 1	1

BUSINESS TECHNOLOGY EDUCATION

Professional Communications and Digital Literacy	.5
Computer Applications for College	.5
Honors Microsoft Office Certification	.5
Honors Microsoft Office Certification Expert Level	.5
Honors Financial Accounting - Blended	1
Accounting I	1
Financial Literacy	.5
Integrated Media Internship	.5
Advanced Production Lab (IMI)	.5
Innovation and Entrepreneurship	.5
Banking & Investments	.5
Small Business Management Internship	.5
Comet Savings & Loan Banking Internship	.5
Comet Savings & Loan Banking Internship Management Team	.5
Communication and Leadership Development	.5
Technology Assistant	.25
Principles of Marketing	.5

PERFORMING ARTS - DRAMA

Introduction to Theater	1
Backstage Theater	.5
Actors' Studio	1
Technical Theater Practicum and Design	.5
Film Making I	.5
Film Making II	.5

PERFORMING ARTS - INSTRUMENTAL MUSIC

Concert Band	1
Concert Winds	1
Symphonic Band	1
Wind Symphony	1
Honors Wind Symphony	1
Marching Band	.5
Freshmen Orchestra	1
Concert Orchestra	1

Symphony Orchestra	1
Honors Symphony Orchestra	1
Philharmonic Orchestra	1

PERFORMING ARTS - VOCAL MUSIC

Women's Choir	1
Men's Choir	1
Una Voce	1
Concert Choir	1
Honors Concert Choir	1
Bel Canto (Select Women's Choir)	1
Contemporary A Cappella Choir	1
AP Music Theory	1

VISUAL ARTS

Cartooning and Illustration	.5
Ceramics I, II, III	.5 each
Sculpture	.5
Drawing and Painting I, II, III, IV	.5 each
Fashion Design & Construction	.5 each
Photography I, II, III	.5 each
Digital Image Design I, II (Any)	.5 each
Design Studio Internship	.5
Studio Management Internship	.5
AP Art Studio	1
AP Art History	1

HEALTH/ PHYSICAL EDUCATION

Health Education	.5
Mind and Body Wellness	.25
Physical Education I	.25
Physical Education II	.25
Strength Training	.25
Advanced Strength Training	.25

MATHEMATICS

Algebra I	1
Geometry	1
Honors Geometry	1
Algebra II	1
Honors Algebra II	1
Mathematical Models & Reasoning	1
Statistics	1
AP Statistics	1
Pre-Calculus	1
Honors Pre-Calculus	1
Calculus	1
AP Calculus AB	1
AP Calculus BC	1

SCIENCE

Physical Science	1
Biology	1
Physical Geology: Earth Materials	.5
Physical Geology: Earth Processes	.5
Chemistry	1
Honors Anatomy & Physiology	1
AP Biology	1
AP Chemistry	- 1
Physics	1
AP Physics I	1
AP Physics C: Mechanics	1

AP Physics C: Electricity & Magnetism	1
Forensics	.5
Cold Case: Forensic Science Extension/Capstone	1
Zoology	.5
Environmental Science	.5
The Science Behind Our Food	.5

SOCIAL STUDIES

World History after 1750	1
Honors World History after 1750	1
American History from 1877	1
AP American History	1
AP European History	1
American Government	.5
AP US Government & Politics	1
AP Comparative Government and Politics	.5
AP Psychology	1
Psychology	.5
Ethnic Studies	.5
Sociology	.5
Law & Criminal Justice	.5
Economics	.5
AP Microeconomics	.5
AP Macroeconomics	.5
AP Human Geography	1
Current Global Issues	.5
Leadership, Public Policy, and You	.5
Perspectives on Sports & American Culture	.5
Queen City Studies	.5

LANGUAGE ARTS

English I	1
Honors English I	1
English II	1
Honors English II	1
English III	1
AP Language and Composition	1
English IV	1
AP Literature and Composition English IV	1
Journalism I, II, III	1
Speech and Debate	.5
Words from the Wild	.5
Best Sellers	.5
Creative Writing I	.5
Creative Writing II	.5
Yearbook	1

WORLD LANGUAGES

French I	1
French II	1
French III	1
AP French	1
Spanish I	1
Spanish II	1
Spanish III	1
Spanish IV	1
AP Spanish	1
German I	1
German II	1
German III	1

AP German	1
American Sign Language I, II	1
American Sign Language II	1
Mandarin I	1
Mandarin II	1
Mandarin III	1
AP Mandarin	1

ESL

ESL English I	1
ESL English II	1
ESL English III	1
Newcomer ELD	1

Non-Departmental Electives

Comet Connections	.5
Service Learning Credit	.5
College 101 for Juniors	.5
College 101 for Seniors	.5
Career Exploration	.5
Experiential Learning - Internships	.5
The Science of Well-Being For Teens	.5

GREAT OAKS PROGRAMS

Teacher Academy

Trending Topics in Schools and Society	.5
Intro to Teaching and Education	1
Co-Curricular: Classroom Culture and Communities	1
Honors Education Principles (CCP)	1
Honors Teaching Internship	1

PLTW Biomedical Sciences

Principles of the Biomedical Sciences	1
Human Body Systems	1
Medical Intervention	1
Biomedical Innovation	1

PLTW Engineering

Introduction to Engineering Design	1
Principles of Engineering	1

Applied Technology

Computer-Aided Design (CAD) (0.5 credit – 1 semester)



This is an introductory CAD course that will teach the fundamentals of Computer-Aided Design software and its applications in today's society. Concept areas will cover sketching, measurement, geometric construction, two-dimensional design, multi-view perspectives and 3D modeling. Students will learn all of the basic CAD commands necessary to produce accurate and efficient 2D and 3D mechanical designs. AutoCAD will be the primary design software used throughout the course.

Grade Level: 9-12

Prerequisites: None

**2023-24 Fee: \$20.00*

Advanced AutoCAD (0.5 credit – 1 semester)



This course will provide the information concerning the application of 3-D layout and design accompanied by the use of solid modeling on the CAD system. The activities will involve having the students experiment with 3D surface models, presentation graphics, model space viewports and 3D solid models. Students will also use their design skills to create 3D prints using the 3D prototype printers. AutoCAD 3D modeling will be the primary design software used throughout the course.

Grade Level: 10-12

Prerequisites: Computer-Aided Design (CAD)

**2023-24 Fee: \$20.00*

Engineering CAD (0.5 credit – 1 semester)

Based on a 3-D approach to engineering design, this course emphasizes how 3D modeling is inherently different from a 2D drawing format. The course begins with the basics in engineering design processes and then progresses through some of the more advanced techniques used in today's engineering design fields. This course will cover topics such as work environment, file management, sketching, extruding, revolution, applying 3D constraints, lofting, sweeping, and extracting data from 3D models. Students will also create 3D prints using the various 3D printers in the labs. Autodesk Inventor and AutoDesk Fusion will be the primary software used throughout the course.

Grade Level: 9-12

Prerequisites: None

**2023-24 Fee: \$20.00*

Architecture CAD (0.5 credit – 1 semester)

This course will guide students through the processes of designing architectural working drawings using traditional and computer-based methods. Students will develop specific house plans based on classroom instruction. Floor-plans, plot plans, elevations and 3-D models will be stressed using the latest FHA (Federal Housing Administration) recommendations. AutoCAD is the design program used in this course.

Grade Level: 10-12

Prerequisites: Computer-Aided Design (CAD)

**2023-24 Fee: \$20.00*

Mason Fabrication Lab (0.5 credit - 1 semester)

This course is designed for students who have completed any of the Computer-Aided Design, Computer-Aided Manufacturing or Computer Programming courses and wish to develop their skills further in these areas. The students will have the choice to create projects independently or work in a group setting. Students will choose their own projects and define the plans for each specific activity. Students will have access to the 3D printers, robotic CNC, vinyl cutter, poster printer and all the other tools and machines available in the design labs. Students will also have the option to collaborate with other disciplines (Science, Math, etc.) to problem-solve and create real-world manufactured goods.

Grade Level: 10-12

**2023-24 Fee: \$20.00*

Prerequisites: Computer-Aided Design (CAD), Computer-Aided Machining (CAM) or Computer Programming

Maker 101 (0.5 credit - 1 semester)

Do you want time during the school day to learn and work on something you are passionate about? Do you want to learn more about the Maker movement and tools associated with it (3D printers, 3D design, Arduinos, robotics, laser cutter, etc.)? This course will explore the "Maker" movement, with a focus on community and collaboration, and introduce opportunities related to technology, engineering, and fabrication. Students will have learning opportunities related to 3D design/ 3D printing, Arduino boards (microcontrollers), sensors, power systems with motors, robotics, programming, and electrical/ mechanical engineering skills. This course will focus on personalized learning, the engineering design process, and design thinking. This means students will learn what they want to learn, learn at their own pace, and create their own deadlines and learning artifacts. Students will tinker, explore,

experiment, solve, examine, defend, and construct creative solutions to address common as well as not-so-common problems.

Grade Level: All

Prerequisites: None

**2023-24 Fee: \$20.00*

Computer-Aided Manufacturing I (0.5 credit – 1 semester)

Students in this course will be introduced to a variety of CNC Robotic machines, which will be used to develop specific projects in a manufacturing environment. Students will be expected to use their geometry skills to develop various projects using the V-carve CNC design program. Students will also receive instruction in lab safety. Computer-aided design techniques, G-coding and CNC machine set-up/operation will be covered throughout the course.

Grade Level: 9-12

Prerequisites: None

**2023-24 Fee: \$20.00*

Computer-Aided Manufacturing II (0.5 credit – 1 semester)

This course is a continuation of Computer-Aided Manufacturing I. This course section will continue to draw on the student's knowledge base using the Robotic CNC and V-Carve CNC/G-coding software. Students will also be introduced to the quality control concept within manufacturing processes. Project construction using the CAD/CNC machines and creating proper documentation of project data will be stressed throughout the course.

Grade Level: 10-12

Prerequisites: Computer-Aided Manufacturing I

**2023-24 Fee: \$20.00*

Computer-Aided Manufacturing III (0.5 credit – 1 semester)

This is a course specifically designed for those students interested in continuing in the field of Computer-Aided Manufacturing (CAM). Students will have the opportunity to research and develop individual and group projects in the manufacturing lab. Students will be expected to utilize the CNC robotic mill, combined with other machines, to produce various manufactured products. V-Carve CNC is the design, machining and programming software used for this course.

Grade Level: 10-12

Prerequisites: Computer-Aided Manufacturing II

**2023-24 Fee: \$20.00*

Areas of Continuing Study in Applied Technology (0.5 credit – 1 semester)

This course is designed for students who have completed CNC Machining, Engineering CAD or Architecture CAD and wish to develop their skills further in the areas of CAD or Computer-Aided Manufacturing. The student will need to define/plan specific problems to be completed and enter into a contract with the appropriate instructor. A week-by-week plan must be submitted and approved prior to enrollment.

Grade Level: 11-12

Prerequisites: permission of the instructor

Computer Programming

Computer Programming I (0.5 credit – 1 semester)

In today's world, web pages are the most common medium for sharing ideas and information. Learning to design websites is an incredibly useful skill for any career path. The Computer Programming I course is a project-based course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS as well as the Bootstrap CSS Framework. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own

multi-page websites. Students will learn the foundations of user interface design, rapid prototyping, and user testing, and will work together to create professional, mobile responsive websites.

Grade Level: 9-12

Prerequisites: None

**2023-24 Fee: \$30.00*

Honors Computer Programming II (0.5 credit – 1 semester)

This course teaches the foundations of Computer Science. Students will learn basic and advanced JavaScript programming concepts with an emphasis on helping students develop logical thinking and problem-solving skills. The content is fully web-based, with students writing and running code in the browser. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises.

Grade Level: 9-12

Prerequisites: Computer Programming I

**2023/24 Fee: \$30.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Honors Computer Programming III (0.5 credit – 1 semester)

Web and Mobile applications are becoming increasingly important to our consumption of media, news, and social interaction. In this course, students will learn how to incorporate JavaScript into web sites by using the Document Object Model (DOM) API and the jQuery library. Students will also create mobile apps using React Native, a popular platform-agnostic framework developed by Facebook and used by successful tech companies including Airbnb, Facebook, Instagram, Tesla, and more. Students will design and build applications to run on their own smartphones. This course will build on the concepts that students learned in Computer Programming I and Honors Computer Programming II.

Grade Level: 10-12

Prerequisites: Computer Programming II

**2023/24 Fee: \$30.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement Computer Science (1.0 credit – 2 semesters)

AP Computer Science introduces students to Computer Science through Java programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development, and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. The AP Computer Science course is a year-long course designed to help students master the basics of Java and equip them to successfully pass the College Board AP Computer Science A Exam at the end of the school year.

Grade Level: 11-12

Prerequisites: Honors Computer Programming III

**2023/24 Fee: \$30.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement Computer Science Principles (1.0 credit – 2 semesters)

AP Computer Science Principles introduces students to the central ideas of computer science, inviting students to develop the computational thinking vital for success across multiple disciplines. The course is unique in its focus on fostering students to be creative and encouraging students to apply creative processes when developing computational artifacts. Students design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life. All students who are enrolled in an

AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on

Grade Level: 9-12

Prerequisites: None

**2023-24 Fee: \$30.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

New Course- Cybersecurity 1 (1.0 credits- 2 semesters)

In this course, students will learn about Cyber Ethics, Fundamentals of Computing, Networking, Cryptology, Linux, System Administration, Cybersecurity Threats, Risk Identification, and much more. Students can expect an engaging learning environment with simulations and authentic, cyber security applications during class and are expected to participate in cybersecurity competitions throughout the year.

Grade level: 10-12

Prerequisites: None

Business Technology Program Pathways

These are program pathway options for students available in the business technology department. Students may take the business technology electives independent of these program pathways.

Microsoft Office 2019 Training Pathway	Integrated Media Pathway	School Bank: CS&L Pathway Comet Savings & Loan Banking Internship	School Store: Comet Zone Pathway Small Business Management Internship	Other Electives
Professional Communications and Digital Literacy (Grades 9-12)	Integrated Media Internship (Grades 9-12)	Banking & Investments (Grades 10 -11) OR Principles of Marketing (Grades 10-11)	Innovation & Entrepreneurship (Grade 10-12)	<ul style="list-style-type: none"> Accounting I Honors Financial Accounting Communication & Leadership Development Principles of Marketing
Computer Applications for College (Grades 9-12)	Advanced Production Lab (Grades 10-12)	Comet Savings & Loan Internship (Grades 11-12)	Small Business Management (Comet Zone) (Grade 11-12)	
Honors Microsoft Office Certification (Grades 10-12)		Comet Savings & Loan Internship Management (Grade 12)	Comet Zone Management Team (Grade 12)	
Honors Microsoft Office Certification Expert Level (Grades 11-12)				

Professional Communications and Digital Literacy (0.5 credit – 1 semester)

Students tend to surround themselves with technology. In fact, most would assume that today's young people are far more computer literate than any previous generation. While this may be true for mobile apps and social networking, it is not necessarily the case for application software such as Microsoft Office. In reality, there is a significant gap between students' perceived self-proficiency of Office skills and the actual assessment of those skills. Professional Communications & Digital Literacy will combine computer technology, effective research, and oral communication in an interdisciplinary approach that will enable students to integrate, practice, and perfect the computer and communication skills essential for success in high school, college, and the work world. Students will focus on utilizing the basic functions of the Microsoft Office 2019 software Excel and PowerPoint and other technologies, including Naviance, our online guidance tool, in a variety of technology projects including college and career research. This course will help students to be more successful completing projects and presentations in their core classes.

Grade Level: All

Prerequisite: None

**2023/24 Fee: \$37.00*

Computer Applications for College (0.5 credit – 1 semester)

You can't escape college and the workforce without knowing in depth one of the world's most popular software packages-Microsoft Office and Publisher. A working knowledge of Word, Excel, PowerPoint, and Access at the intermediate level will increase a student's productivity and provide them the ability to problem solve and communicate more effectively. Students will complete integrated Microsoft Office projects that relate to real world business problems with an emphasis on design. By learning the intermediate features of Microsoft Office and Microsoft Publisher, students will have the right tools to communicate effectively in today's world. This course will also help prepare students for the next level of Microsoft training: Honors Microsoft Office Certification.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$44.00*

Honors Microsoft Office Certification (0.5 credit – 1 semester)

Colleges, universities and employers are now expecting students to have more than just a basic level of understanding in Microsoft Excel, Word, PowerPoint, Access and Outlook. This course provides an integrated program that trains students and validates the knowledge and skills they have acquired. Because Mason High School is an official testing site for the Microsoft Office Certifications, this course allows our students to earn up to 5 certifications using Microsoft Office 2019. Based on globally recognized standards, this certification is an important and distinguished credential for students when applying to college or for jobs. Honors Microsoft Office Certification develops technology skills with applications to personal or business situations focusing on the use of Microsoft Office. Microsoft Office certifications have been recommended by the American Council on Education (ACE) for college credit and some colleges are now requiring these certifications for admission into their College of Business and Economics. Students will be required to pass all five (Excel, Word, PowerPoint, Access and Outlook) certification tests to earn honors credit. If a student registers for Honors but does not pass the required tests, students will be given regular credit for the course.

Grade Level: 10-12

Prerequisites: Professional Communications & Digital Literacy, OR Computer Applications for College

**2023/24 Fee: \$61.50*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Honors Microsoft Office Certification Expert Level (0.5 credit – 1 semester)

Microsoft Office is the single most widely used computer application suite in the world. As a student in this course, you will learn the Expert Level topics of Microsoft Office Excel 2019 and Word 2019, building on the knowledge you gained from the first level of Honors Microsoft Office Certification. These advanced skills enable you to tap the full features and functionality of the Microsoft Office 2019 system, resulting in increased academic performance (including opportunities for internships), individual differentiation and personal confidence. Set yourself apart as you are able to demonstrate and integrate advanced skills including pivot tables and charts, creating scenarios, functions such as VLookup & HLookup and much more. This course is highly recommended for future college Business & Engineering majors.

Grade Level: 10-12

Prerequisites: Honors Microsoft Office Certification

**2023/24 Fee: \$61.50*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.


Financial Literacy (0.5 credit – 1 semester)

This class will prepare students to meet future financial needs as they progress through life. This course will give students the opportunity to analyze factors that affect income as part of the career decision making process; organize personal finances and use a budget to manage cash flow; understand the impact of taxes on personal financial planning; evaluate financial options and services that banking institutions provide for consumers; evaluate investment options and services to meet short and long term goals; evaluate creditworthiness and use credit options responsibly; analyze choices available to consumers for purchases and protection against risk and financial loss; and become knowledgeable of consumer protection services. Internet research, projects, guest speakers, in depth study, and a strong emphasis in Microsoft Excel will be utilized to explore these topics. It's never too early to plan for a financially independent future.

Grade Level: 10-12

Prerequisites: None

**2023/24 Fee: \$22.00*

Blended Honors Financial Accounting (1.0 credit – 2 semesters)  Honors Financial Accounting is a challenging course for the student who wants to be prepared for the rigor of college accounting. This course covers the fundamentals of financial accounting and their application to journals, ledgers, and financial statements. Through in-depth discussions, financial analysis, and coursework, students will cover the accounting cycle for a corporation. This course moves at a rapid pace and includes more challenging exercises than the traditional high school accounting course. The blended format is a convenient alternative to the traditional classroom with students having a choice in personalizing their learning. Students attend class two days per week and have "flex" lab days two days per week. On lab days, students have the option of working in the class lab during the scheduled time or on their own at a time that is more conducive to their learning needs. This flexibility allows students to practice their skills based on their personalized optimal learning times and location and prepares them for blended courses in college. This is STRONGLY recommended for future college business majors.

Grade Level: 11-12

Prerequisites: None

**2023/24 Fee: \$48.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Accounting I (1.0 credit – 2 semesters)

Accounting is a must if you are thinking of a business major or any major requiring budgeting and financial analysis. Accounting I provides a solid foundation for all students and is designed to provide generally accepted accounting practices. This course covers the accounting cycle used by a sole proprietor and a corporation. Students will learn to integrate accounting principles to accounting software similar to that used in business and industry. In addition, students will learn how to analyze and use financial statements.

Grade Level: 11-12

Prerequisites: None

**2023/24 Fee: \$48.00*

Innovation and Entrepreneurship (0.5 credit – 1 semester)

This course helps students learn how to turn their innovative ideas into action. Learn how to identify, evaluate, and develop a product or service that adds value to society. Through individual and group projects, students will gain valuable hands-on experience needed to create a business plan, analyze the marketing mix, determine purchasing and pricing, organize the physical layout, plan for operations and staffing, promote the business, establish record keeping and accounting procedures, utilize computers in small business management, and maintain social/ethical responsibility, and acquire the business literacy needed in all industries. This class is highly recommended for students who are interested in participating in the Small Business Management Internship, the Comet Zone.

Grade Level: 10-12

Prerequisites: None

**2023/24 Fee: \$2.00*

Small Business Management Internship (Comet Zone and/or other school-based businesses)

Students will expand their knowledge of Innovation and Entrepreneurship by managing and maintaining a school-based business such as the Comet Zone. Students will be responsible for managing, marketing, accounting, purchasing, designing products, managing a web presence, and all aspects of small business management. An application and selection process will be used for enrollment.

Grade Level: 11-12

Prerequisites: Innovation and Entrepreneurship (highly recommended) & Application

Cosmic Cafe Internship (0.5 credit – 1 semester)

Cosmic Cafe is a project-based student run enterprise in which students integrate higher order thinking, communication, leadership, and management processes.

Students enrolled in the class oversee all aspects of running The Cosmic Cafe. Students may apply to be an employee of the cafe (barista) or/and work in one of the three departments: marketing, finance, operations. They are directly engaged in hands-on operations and are responsible for the café's overall success. Students will be selected via an application process.

Grade Level: 11-12

Prerequisites: Application

Banking & Investments (0.5 credit – 1 semester)

This course addresses the concepts and evidence relevant to both banking and investing opportunities. Students will analyze how each investment type works, including advantages, disadvantages, and expected yield. Students will learn how to manage investment portfolios and estimate the future value of investments. Students will have the opportunity to learn more about the banking industry through learning experiences with Comet Savings & Loan managers and employees. Other topics included in the course are lending, bank security, saving strategies, and banking operations. This course is required for students who are interested in working as an employee of Comet Savings & Loan Banking Internship.

Grade Level: 10-12
Prerequisites: None

**2023/24 Fee: \$14.00*

Integrated Media Internship (0.5 credit – 1 semester)

This course presents students with the opportunity to develop and pursue interests in various roles related to digital and visual media production. Students will be introduced to the wide range of responsibilities in the production of new-age media, and they will be given the freedom to pursue an individualized path that focuses on their personal areas of interest. These areas may include: website design and management, broadcast journalism, video production, social media management, newswriting, convergence and multi-platform media, live broadcasting, sports promotion, and graphic design. Students will have the opportunity to work on the MBC News production, sports highlight videos, special documentary projects, marketing communication, live sports broadcasting, web content management, and public relations. Students may take this course more than once. Each time a student takes this course, they will work in a new or elevated role, allowing for an individualized progression throughout their high school career.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$2.00*

Advanced Production Lab (IMI) (0.5 credit – 1 semester)

This class is for the advanced Integrated Media Internship student who has successfully completed the IMI course(s). This student has achieved a high level of production outputs. Students in this class will be asked to act as project managers on a variety of productions which may include high school level, district level, and outside client outputs. Students who exhibit advanced skills in video production, editing, graphic design, audio production, web management, social media management and productions, on camera performance, broadcast journalism, sports promotion, on-air talent, etc. will be ideal candidates for this class.

Grade Level: 10-12

Prerequisites: Integrated Media Internship, IMI Teacher Approval

**2023/24 Fee: \$9.00/semester*

Communication and Leadership Development (0.5 credit – 1 semester)

This course helps analyze workplace cultures and communicate effectively in today's global workplace regardless of the industry or field of study. Learn oral and written communication skills to address business and professional audiences as well develop the professional soft skills and norms needed to manage your career. You will learn practical skills and develop materials that can be used immediately in your classes, during interviews, and on the job.

Grade Level: 10-12

Prerequisites: None

**2023/24 Fee: \$2.00*

Comet Savings & Loan Internship (1.0 credit – 2 semesters)

Mason High School partners with Fifth Third Bank to operate Comet Savings & Loan. This is a true school-to-work environment where students are in charge of running and operating the in-school bank. Students may apply for one of the 28 management positions or they may choose to apply to be an employee of the bank and work in one of the nine departments (personal banking, operations, finance, analytics, auditing, marketing, graphic design, communications, and compliance). A highly selective process will be used to insure the selection of mature and trustworthy individuals. Students will be selected via an application process.

Prerequisites: Banking & Investments and application approval OR Principles of Marketing and application approval

Principles of Marketing (.5 credit - 1 semester)

This college level marketing course is designed to introduce students to the basic concepts of marketing and how it affects people as consumers. This course will include topics such as marketing mix, promotion, supply and demand, and career opportunities in the field of marketing. This class will also explore the role of digital marketing in relation to marketing principles, ethics, and social media usage. Students will work collaboratively on projects that are focused on real world problems and challenges from local businesses. Students will gain real world experiences by working with local companies as marketing experts in an experiential learning project.

Grade Level: 10-12

**2023/24 Fee: \$2.00*

Prerequisite: None

ESL

ESL English I (1.0 credit – 2 semesters)

ESL English I is designed for English learners who are at a beginning level of English proficiency as defined by the Ohio Department of Education. The emphasis of the course is on promoting the ongoing development of English Language Arts curriculum concepts, vocabulary, and skills in all four language modalities (speaking, listening, reading and writing). This course follows the Ohio Department of Education Learning Standards for ELA as well as the Ohio English Language Proficiency Standards.

Prerequisite: Designation as an English Learner

ESL English II (1.0 credit – 2 semesters)

ESL English II is designed for English learners who are at a beginning, or early intermediate, level of English proficiency as defined by the Ohio Department of Education and are able to demonstrate mastery of the concepts and skills taught in ESL English I. The emphasis of the course is on promoting the ongoing development of English Language Arts curriculum concepts, vocabulary, and skills in all four language modalities (speaking, listening, reading and writing). This course follows the Ohio Department of Education Learning Standards for ELA as well as the Ohio English Language Proficiency Standards.

Prerequisite: Designation as an English learner

ESL English III (1.0 credit – 2 semesters)

ESL English III is designed for English learners who are at an early intermediate, or intermediate, level of English proficiency as defined by the Ohio Department of Education and are able to demonstrate mastery of the concepts and skills taught in ESL English II. The emphasis of the course is on extending the development of English Language Arts curriculum, concepts, vocabulary, and skills in all four language modalities (speaking, listening, reading and writing) with an increase in the complexity of texts and level of mastery of expressive writing in English. Additionally, the course aims to prepare students to transition into mainstream English Language Arts classes. This course follows the Ohio Department of Education Learning Standards for ELA as well as the Ohio English Language Proficiency Standards.

Prerequisite: Designation as an English learner

Newcomer ELD (1.0 credit – 2 semesters)

Newcomer English Language Development is a targeted language development course for beginning level English learners to support the development of basic English language syntax, lexicon, and semantics in all four language modalities (speaking, listening, reading and writing). This course is taken as a supplement to a student's ESL English class.

Prerequisite: Designation as a beginning level English learner

Performing Arts - Drama

Introduction to Theater (1.0 credit – 2 semesters)

This course is for beginning theater students who are interested in exploring all aspects of live performance. Students will explore the history of theater as well as current practice. Career prospects within the field of live performance will also be researched and explored. Students will learn theater vocabulary and explore costuming, set design, stage makeup, lighting and sound. They will read several plays from different cultures and analyze them from a production perspective. Students will also explore performance skills including improvisation, concentration, vocal projection and diction, movement, and stage combat. Students will be required to attend theatrical performances both at the school and in the area and write critiques.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$28.00*

Actors' Studio (1.0 credit – 2 semesters)

Actors' Studio is an intensive training program for students interested in enhancing their skills as a performer. The class challenges students to increase their ability to express their own experience and the experience of others. It involves improvisation, monologue, and scene work, technical methods in voice, physical action, and text analysis. This course teaches students to work creatively within a structure and develop an acting process that balances and integrates text analysis and creative imagination.

Grade Level: 10-12

Prerequisites: Intro to Theater

Backstage Theater (0.5 credit – 1 semester)

This course is for performers and performing arts enthusiasts who have little or no training in backstage or technical theater work. This class will allow students to learn the fundamentals that will make them better students of theater. The primary focus of the class is on basic theater technology. Students will learn to apply the complicated vocabulary of technical theater. They will learn the various jobs available backstage and their responsibilities. Students will learn the different pieces of equipment and how to stay safe in the theatrical work place. Please note that this class does include hands-on use of ladders, power tools, and lighting equipment.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$25.00*

Technical Theater Practicum and Design (0.5 credit – 1 semester)

The purpose of this course is to learn technical theater by doing technical theater, in any and all of its aspects. In all cases, the particular duties will tie as closely as possible to the production of the shows. When this is not possible, students will be working towards honing their design skills, including model making, scale drawing, and script analysis. This course is about problem solving, skills development, and use of technology. However, it is also about the more abstract, perhaps more valuable aspects of the theater, including such things as work ethic, reliability, positive attitude, respect and loyalty to each other and to the production. All of these things must be added to the more traditional values of scholarship, research, and artistic development.

Grade Level: All

Prerequisites: Backstage Theater

**2023/24 Fee: \$25.00*

Film Making I (0.5 credit – 1 semester)

This course provides aspiring filmmakers experience in the basics of the filmmaking process. Students will learn the basics of film-making, including the process of script creation, storyboarding, filming, editing, and publishing. Students learn to edit using Adobe Premiere Pro software. This is a hands-on course. Students will write, perform, direct, and edit original short films. Finished films demonstrating artistic merit will be published on YouTube.

Grade Level: All
Prerequisites: None

**2023/24 Fee: \$15.00*

Film Making II (0.5 credit – 1 semester)

Building on the foundation of Filmmaking I, this course provides aspiring filmmakers additional experience in the film creation process. Students will work collaboratively to create original films of various genres throughout the semester. Students will work as screenwriters, directors, actors, and technicians in small groups. This class is designed to provide students with a portfolio of work showcasing their artistic and technical filmmaking skills. Finished films will be published on a class YouTube channel.

Grade Level: All
Prerequisites: Film Making I

Performing Arts – Instrumental Music [Program Information](#)

Marching Band (0.5 credit – 1 semester)

The Mason High School Marching Band is open to all students in grades 9 through 12. Students who play woodwind, brass, or percussion instruments must be enrolled in a full year of one of the concert band classes offered at MHS. All students at MHS are able to audition for the marching band color guard. Marching band is a select group that rehearses after school, in the evenings, and on select Saturdays July through the beginning of November. Performance spots are determined by directors with some students participating in alternating roles throughout the season. This performance-based group will perform at marching band competitions, most football games, community and school functions, band competitions, and special performances.

Grade Level: All
Prerequisites: Audition, Director Recommendation and enrollment in a concert band

Green, Silver and White Concert Bands (1.0 credit – 2 semesters)

The MHS Concert Bands are open to all students in grades 9 through 12 who play a brass, percussion, or woodwind instrument. Enrollment will be determined by audition and director(s) recommendation in the spring of the prior school year. These performance-based classes will include concert, jazz, and solo ensemble music. In addition, the Concert Bands will concentrate on the basic fundamentals of instrumental music (scales, tone, rhythm, etc.). Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: All
Prerequisites: Audition and Director Recommendation

**2022/23 Fee: -\$50*

Concert Winds (1.0 credit – 2 semesters)

The MHS Concert Winds is open to all students in grades 9-12 who play a brass, percussion or woodwind instrument. This group prepares band students for entering the Symphonic Band or Wind Symphony. Enrollment will be determined by audition and director(s) recommendation in the spring of the prior school year. This performance-based class will include concert, jazz, and solo/ensemble music. Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: All
Prerequisites: Audition and Director Recommendation

**2022/23 Fee: \$50*

Symphonic Band (1.0 credit – 2 semesters)

The MHS Symphonic Band is open to all students in grades 9 through 12 who play a brass, percussion, or woodwind instrument. This group prepares band students for entering the Wind Symphony. Enrollment will be determined by audition and director(s) recommendation in the spring of the prior school year. This performance-based class will include concert, jazz, and solo ensemble music. Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: All

Prerequisites: Audition and Director Recommendation

**2023/24 Fee: \$75.00*

Wind Symphony (1.0 credit – 2 semesters)

The MHS Wind Symphony is a highly select group performing the finest in wind literature, which allows freshmen and sophomores to participate with the Honors Wind Symphony. Proper instrumental technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines will be taught and maintained within the group throughout the two semesters. Enrollment will be determined by audition and director(s) recommendation in the spring of the prior school year. This performance-based class will include the highest level concert literature and solo and ensemble music. Freshmen and sophomores will be introduced to and adjust to the demands of advanced instrumental technique while playing advanced literature in preparation for their instrumental leadership in the junior/senior years. Students must complete specified criteria outlined during the audition process in order to participate in the ensemble. Freshmen and sophomores will not receive honors credit. Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, OMEA adjudicated festivals, and performances that take place outside of the normal school day.

Grade Level: All

Prerequisites: Audition and Director Recommendation

**2023/24 Fee: \$75.00*

Honors Wind Symphony (1.0 credit – 2 semesters)

The MHS Honors Wind Symphony is a highly select group who performs the finest in wind literature. Proper instrumental technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines will be taught and maintained within the group throughout the two semesters. Enrollment will be determined by audition and director(s) recommendation in the spring of the prior school year. This performance-based class will include the highest level concert literature and solo and ensemble music. Within the class, sophomores will be taking Level I as described above and will not receive honors credit. Juniors will be taking Level II of the course, complete additional requirements and will receive honors credit. Seniors will be taking Level III of the course, complete advanced requirements and will receive honors credit. All students must adhere to the honors requirements. Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, OMEA adjudicated festivals, and performances that take place outside of the normal school day. *Grade Level: All*

Prerequisites: Audition and Director Recommendation

**2022-23 Fee: \$75.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Freshman Orchestra (1.0 credit – 2 semesters)

The MHS Freshman Orchestras are open to any freshmen student who has previous experience playing the violin, viola, cello or the double bass. This class is designed to continue to advance the skills and musicianship learned in Eighth Grade Orchestra. This performance based class will teach diverse musical styles and will focus on developing

proper technique, music theory, rehearsal and performance. Enrollment is by audition and director recommendation only. The Freshman Orchestras concentrate on the basic fundamentals of instrumental music (extended note reading, rhythm, tone, etc.). Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: 9

Prerequisites: 8th grade Orchestra and Director Recommendation

**2023/24 Fee: \$30.00*

Concert Orchestra (1.0 credit – 2 semesters)

The MHS Concert Orchestras are open to all students in grades 10 – 12 who play violin, viola, cello or the double bass. This class is designed to continue to advance the skills and musicianship learned in Freshman Orchestra. Proper technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines will be taught and maintained within the group. Enrollment is by audition and director recommendation only. Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: 10-12

Prerequisites: Freshmen/Concert Orchestra and Director Recommendation

**2023/24 Fee: \$30.00*

Philharmonic Orchestra (1.0 credit – 2 semesters)

The MHS Philharmonic Orchestra is an auditioned orchestra which is open to students in grades 9 through 12 who play violin, viola, cello or bass. This ensemble is geared towards juniors and seniors and prepares them for entering the Symphony Orchestra. Enrollment will be by audition and director(s) recommendation and based on the instrumentation needs of the ensemble. This performance-based class will include Class A concert literature and will teach advanced skills and musicianship in string playing. Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: All

Prerequisites: Audition and Director Recommendation

**2023/24 Fee: \$30.00*

Symphony Orchestra (1.0 credit – 2 semesters)

The MHS Symphony Orchestra is a highly select group performing the finest in orchestral literature, which allows freshmen and sophomores to participate with Honors Symphony Orchestra. Proper orchestral technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines will be taught and maintained within the group throughout the two semesters. Enrollment is by audition and director(s) recommendation. This performance-based class will include the highest level concert literature and solo and ensemble music. Freshmen and sophomores will be introduced to and adjust to the demands of advanced orchestral technique while participating with the Honors Symphony Orchestra. Students must complete specified criteria outlined during the audition process, in order to participate in the ensemble. Freshmen and sophomores will not receive honors credit. Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: 9-10

Prerequisites: Audition and Director Recommendation

**2023/24 Fee: \$30.00*

Honors Symphony Orchestra (1.0 credit – 2 semesters)

The MHS Honors Symphony Orchestra is a highly select group who performs the finest in orchestral literature. Proper orchestral technique, ear training skills, music theory, and appropriate rehearsal/performance disciplines will be

taught and maintained within the group throughout the two semesters. Enrollment is by audition and director(s) recommendation. This performance-based class will include the highest level concert literature and solo and ensemble music. Juniors will take Level II of the course, complete additional requirements and will receive honors credit. Seniors will be taking Level III of the course, complete advanced requirements and will receive honors credit. Instrumentation and personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: 11-12

Prerequisites: Audition and Director Recommendation

**2023/24 Fee: \$30.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Performing Arts – Vocal Music

Una Voce (1.0 credit – 2 semesters)

The MHS Una Voce Choir is a preparatory mixed choral ensemble and is open to students in grades 9 through 12. Repertoire studied will include representative choral literature of various styles and periods for mixed voices. The level of literature studied will be of moderate difficulty. Proper vocal techniques, sight singing, ear training skills, and appropriate rehearsal/performance disciplines and standards will be taught and maintained within the group. Personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day. The director will do voice classification placement with each member.

Grade Level: All

Prerequisites: Director(s) Recommendation

**2023/24 Fee: \$20.00*

Women's Choir (1.0 credit – 2 semesters)

The MHS Women's Choir is an auditioned choral ensemble open to treble voices in grades 10 through 12. Repertoire studied will include representative choral literature of various styles and periods. The levels of literature studied will range from moderate to difficult, including OMEA class B/C literature. Proper vocal techniques, sight singing, ear training skills, and appropriate rehearsal/performance disciplines and standards will be taught and maintained with the group. Personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: 10-12

Prerequisites: Audition and Choral Director Recommendation:

**2023/24 Fee: \$35.00*

Men's Choir (1.0 credit – 2 semesters)

The MHS Men's Choir is an auditioned tenor-bass choral ensemble open to students in grades 9 through 12. Repertoire studied will include representative choral literature of various styles and periods for tenor and bass voices. The levels of literature studied will range from moderate to difficult. Proper vocal techniques, sight singing, ear training skills, and appropriate rehearsal/performance disciplines and standards will be taught and maintained with the group. Personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: All

Prerequisites: Audition and Choral Director Recommendation

**2023/24 Fee: \$35.00*

Bel Canto (1.0 credit – 2 semesters)

The MHS Bel Canto Choir is an auditioned treble choral ensemble open to students in grades 10 through 12. Repertoire studied will include representative choral literature of various styles and periods for treble voices. The levels of literature studied will range from moderate to difficult, including OMEA class A/B literature. Proper vocal techniques, sight singing, ear training skills, and appropriate rehearsal/performance disciplines and standards will be taught and maintained with the group. Personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: 10-12

Prerequisites: Audition and Choral Director Recommendation

**2023/24 Fee: \$35.00*

Concert Choir (1.0 credit – 2 semesters)

A highly select mixed choral ensemble which allows sophomores to participate with the Honors Concert Choir. Repertoire studied will include representative choral literature of various styles and periods for mixed voices. The levels of literature studied will range from moderate to difficult including OMEA Class A/AA. Proper vocal techniques, sight singing, ear training skills, and appropriate rehearsal/performance disciplines and standards will be taught and maintained within the group throughout the two semesters. Participation in public performances and OMEA contests is required. Sophomores will be introduced to and adjust to the demands of advanced vocal technique while singing advanced literature in preparation for their vocal leadership in the junior/senior years. Although they will be participating with the Honors Concert Choir; sophomores will not receive honors credit. Personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: 10

Prerequisites: Audition and Choral Director Recommendation

**2023/24 Fee: \$35.00*

Honors Concert Choir (1.0 credit – 2 semesters)

The MHS Honors concert Choir is a highly select mixed choral ensemble, in which the repertoire studied, will include representative choral literature of various styles and periods for mixed voices. The levels of literature studied will range from moderate to difficult including OMEA Class A/AA. Proper vocal techniques, sight singing, ear training skills, and appropriate rehearsal/performance disciplines and standards will be taught and maintained within the group. Participation in public performances and OMEA contests is required. Within the class, sophomores will be taking Level I as described above. Juniors will be taking Level II of the course, complete additional requirements and will receive honors credit. Seniors will be taking Level III of the course, complete advanced requirements and will receive honors credit. Personnel are carefully balanced for each ensemble, therefore, a full year commitment is required when registering for the class. The curriculum for these courses includes graded events, sectionals, rehearsals, and performances that take place outside of the normal school day.

Grade Level: 11-12

Prerequisites: Audition and Choral Director Recommendation

**2023/24 Fee: \$35.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Contemporary A Cappella Choir (0.5 credit – 1 semester)

The MHS Contemporary A Cappella ensembles are auditioned groups and meet after school and/or during evening hours. Students selected for these ensembles will have demonstrated proper vocal technique, sight singing, and ear training skills and appropriate rehearsal/performance discipline. Repertoire studied will be of varying difficulty levels. Students selected must be available for mandatory rehearsals beginning in early August and must also be available for after school and evening rehearsals, public performances, and competitions throughout the year.

Grade Level: 9-12

Prerequisites: Audition and Choral Director recommendation. Membership in a traditional Mason High School choir, band, or orchestra is also mandatory.

**2019/20 Fee: \$60.00*

Performing Arts – General Music

AP Music Theory (1.0 credit – 2 semesters)

This course is an in-depth study of the structure of music as it relates to musical notation, melody, harmony, rhythm, meter and texture. Students must be prepared to study all major/minor scales and modes including all key signatures. In addition, students will apply themselves to analysis of musical scores identifying harmonic intervals, chord structure, chord inversions, and chord progressions. Basic chord progressions and voice leading will be played by students on the piano and students will learn sight-singing, dictation and other ear training skills. Students will apply their knowledge by writing a musical score for a small ensemble of instruments or voices. The ability to read and write musical notation is a foundational skill needed to be successful in this course. In addition it is also beneficial to have acquired or be acquiring basic performance skills in voice or on an instrument. A basic pre-assessment of these foundational skills will be administered to determine appropriate course selection.

Grade Level: All

**2021 AP Exam Fee: \$97.00*

Prerequisites: Pre-assessment of foundational skills

**2023/24 Fee: \$40.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Visual Arts

Cartooning and Illustration (0.5 credit – 1 semester)

Do you like making art and telling stories? This course will cover technical drawing skills and use creative writing as a jumping off point to help you design and draw dynamic cartoons, comics, and illustrations. Traditional drawing materials like pens, colored pencils, and markers will be used throughout the course to create original works of art.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$28.00*

Ceramics I (0.5 credit – 1 semester)

[Click here to learn more about our CERAMICS courses!](#)

Did you enjoy playing with clay or Play Doh when you were little? Ceramics I is a great opportunity to work with your hands in a creative way! Just like ancient people made items in clay 20,00 or 30,000 years ago- we will be using clay to make YOUR permanent mark in clay! We will explore various methods of handbuilding, glazing, firing, and types of clay! We use Schoology as a helpful tool for additional resources and organizing the creations you make. Students learn techniques and skills through low-pressure skill builders before they create their personally designed projects.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$32.00*

Ceramics II (0.5 credit – 1 semester)

[Click here to learn more about our CERAMICS courses!](#)

Have you ever wanted to try the potter's wheel? This is your chance! This course is for anyone who wants to take their ceramics experience to the next level! Building on the mastery students achieved in Ceramics I, students dive deeper into learning more advanced techniques of handbuilding along with an introduction to the potter's wheel.

Students will develop and create thoughtful designs in their pieces while refining their craft. If you enjoyed Ceramics I, and are looking for another chance to get in touch with your creative clay side and improve your craft and design- look no farther- sign up!

Grade Level: All

Prerequisites: Ceramics I

**2023/24 Fee: \$32.00*

Ceramics III: Wheel Throwing (0.5 credit – 1 semester)

[Click for more re. CERAMICS courses!](#)

If you have always wanted to master the potter's wheel, this is the course for you! In Ceramics II, students were introduced to the wheel, but in Ceramics III, Wheel Throwing, it is all-wheel, all the time! If you didn't quite feel proficient on the wheel in level II, not to worry! If you want to learn the wheel- with practice and patience, you will get to the level of proficiency needed to create a competent body of wheel work. Attendance is key for having adequate time to practice and develop your skills, and open studio time is always an option for additional work time! Students will create every basic wheel form including cylinders, cups, bowls, plates, and platters, vases, and minis. The final project is an independent student-driven project diving deeper into greater technique and design development.

Grade Level: 10-12

Prerequisites: Ceramics II

**2023/24 Fee: \$52.00*

Digital Image Design I (0.5 credit – 1 semester)

[Course Video](#)

[Course Video 2](#)

Use a computer to make incredible art! This art course focuses on graphic design and photo manipulation using Adobe Illustrator and Photoshop. Designed for beginner students, we will focus on commercial and fine art by creating logos, special effect photography, photoshop composites, and package designs. With a focus on creative problem solving and design thinking, this class is useful for all students regardless of artistic background and prepares all students for a future of creativity and innovation.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$24.00*

DID II: Digital Illustration (0.5 credit – 1 semester)

[Course Video](#)

An art course that builds off of Digital Image Design I, Digital Illustration will dive deeper into utilizing Adobe Illustrator and Photoshop. Learn how to use a drawing tablet and advanced digital design techniques to create stunning works of fine art! You will explore Illustration as both artistic expression and a tool for visualizing a client's concept. Build your portfolio and learn how to use various software to create whatever you can imagine! Any DID II course can be taken after Digital Image Design I, and a student may take any combination of DID II courses in any order.

Grade Level: All

Prerequisites: Digital Image Design I

**2023/24 Fee: \$24.00*

DID II: Animation and Storytelling (0.5 credit – 1 semester)

[Course Video](#)

An art course that builds off of Digital Image Design I, Animation will teach you how to tell stories through moving images. Students will learn how to use a drawing tablet and advanced techniques to create increasingly complex animations. After learning the basics of animation, students will make animated stories, stop motion animations, amusing gifs, digital character puppets, and motion graphics! Any DID II course can be taken after Digital Image Design I, and a student may take any combination of DID II courses in any order.

Grade Level: All

Prerequisites: Digital Image Design I

**2023/24 Fee: \$12.00*

DID II: Communication Graphics (0.5 credit – 1 semester) [Course Video](#)

An art course that builds off of Digital Image Design I, Communication Graphics will teach you how to utilize Adobe Illustrator and Photoshop to visually share crucial information. Learn advanced digital design techniques to create professional graphics, while exploring design as a tool for visualizing a client's concept. Build your portfolio of infographics, posters, cover layouts, and branding guides as you learn how to use exciting software. Any DID II course can be taken after Digital Image Design I, and a student may take any combination of DID II courses in any order.

Grade Level: All

Prerequisites: Digital Image Design I

**2023/24 Fee: \$24.00*

Design Studio Internship (0.5 credit – 1 semester) [Course Video](#)

Design Studio Internship is a graphic design experience that naturally follows Digital Image Design 1 and 2. Students will create commercial works for a variety of in-school and out-of-school clients for use in various print and online publications. Students will manage accounts, work with clients, and create innovative solutions for design problems.

Grade Level: 10-12

Prerequisites: ANY Digital Image Design II and a strong interest in design as a career

**2023/24 Fee: \$18.00*

Drawing & Painting I (0.5 credit – 1 semester)

From the beginning of time to modern day, people have been learning to draw and paint about the world around themselves. Learning the basics can open the doors to self expression! Students will learn how to work with various drawing and painting media and will complete practice work and projects. This course is designed for the beginner art student or anyone who wants to gain or improve skills in drawing and painting. This course serves as a good foundation for all art courses.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$40.00*

Drawing and Painting II (0.5 credit – 1 semester)

Level up your skills in drawing and painting with new challenges in the studio! We will explore more advanced techniques and subject matter to foster artistic growth and creative problem solving. This course will introduce students to trade secrets used by artists to create well designed drawings and paintings that demonstrate strong technique. Students will complete projects that will showcase their skills and could be used in college application portfolios.

Grade Level: All

Prerequisites: Drawing and Painting I

**2023/24 Fee: \$40.00*

Drawing and Painting III (0.5 credit – 1 semester)

Expand your artistic skills in this advanced studio course! We will look at masterpieces from throughout art history as well as contemporary artists to help you grow your own artistic ideas. Be prepared to work with a variety of drawing and painting materials as you develop original concepts for the artwork you create. All projects are designed to help you build a comprehensive portfolio for college applications.

Grade Level: 10-12

Prerequisites: Drawing and Painting II

**2023/24 Fee: \$40.00*

Drawing and Painting IV (0.5 credit – 1 semester)

Go above and beyond with your artistic practice! We will build upon the work from Drawing & Painting III as you continue to develop your unique artistic voice. You will work with the instructor to develop meaningful and expressive works of art to further build a competitive portfolio for college admissions. This course can be taken to prepare you for AP Art Studio or can be taken in the same school-year to complement your work in the AP class.

Grade Level: 10-12

Prerequisites: Drawing and Painting III

**2023/24 Fee: \$40.00*

Fashion Design and Construction (0.5 credit – 1 semester)

Do you have a passion for fashion? Have you always wanted to learn how to sew? Do you enjoy drawing and designing garments? If you said yes to these questions, then sign up for Fashion Design and Construction! We will learn how to draw fashion figures, how to sew by hand and machine, and how to use a pattern to create fabric fashion items and accessories. No experience in drawing or sewing is needed, although it can be helpful. Student fee will cover many basic items such as illustration supplies, basic fabrics, simple notions, thread, and sewing tools. Students will be required to provide their own fabrics and embellishments for some projects.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$54.00*

Photography I (0.5 credit – 1 semester) [Click here to learn more about Photography!](#)

Photography is everywhere in today's society, but do you know how to take good photos? This beginner course is meant to help you learn the basics about the camera and composition. When you finish this class you will have turned good photos into great photos, developed your own photos in the darkroom and edited lots of digital photos! This is a great class for anyone who loves taking photos! A 35mm film camera with manual shutter speed and aperture settings will be provided, but students may use their own if they have one.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$40.00*

Photography II (0.5 credit – 1 semester) [Click here to learn more about Photography!](#)

Take your photography to the next level in Photo II: Becoming a Photographer! In this course you will learn advanced camera, darkroom, and Lightroom techniques. When you finish this class you will know the secrets of the professionals for capturing images that stand out above the rest. This is a great class for anyone wanting to go beyond the basics and take professional quality photos!

Grade Level: All

Prerequisites: Photography I

**2023/24 Fee: \$40.00*

Photography III (0.5 credit – 1 semester) [Click here to learn more about Photography!](#)

Grow your photography skills and develop your own artistic style! In Photo III: Discovering My Style, you will create your own projects focused on the types of photography that interests you. In the process you will develop and refine your own style to create images that are uniquely yours. By the time you finish this course, you will have a portfolio of images to either hang on your walls or submit to a college!

Grade Level: 10-12

Prerequisites: Photography II

**2023/24 Fee: \$40.00*

Studio Management Internship (0.5 credit – 1 semester)

This independent study internship must be arranged with an individual art teacher. Students in this internship will work on studio management tasks like kiln operations, material inventories, and other tasks. Students may also be involved with the execution of shows and exhibitions. Speak with an instructor before signing up for this.

Prerequisites: Teacher recommendation

AP Studio Art (1.0 credit – 2 semesters)

This course is equivalent to a first-year college art class and all students are expected to challenge themselves to develop mastery in their ideas, skills, and abilities in art making. The AP Studio course is designed to support students in inquiry-based learning, encouraging students to document their sustained investigation of materials, processes, and ideas through practice, experimentations, and revision. The work produced will be open to diverse approaches to thinking and making, aligning with college, university, and contemporary disciplinary practices. Each AP student will develop a portfolio which requires submission to the College Board. The complete portfolio will demonstrate their abilities as well as their versatility with techniques, problem solving and ideation. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11. This includes submission of the AP Art Studio portfolio.

Grade Level: 11-12

Prerequisite: Students will be selected based on portfolio review as determined by Visual Arts staff

**2023 AP Exam Fee: \$97.00*

**2023/24 Fee: \$82.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

AP Art History (1.0 credit – 2 semesters)

This full-year college level course will provide a new pathway for students to combine many different academic interests (visual arts, history, humanities, global cultural studies, etc.) into one rigorous visual arts course. Students will analyze images and historical events as they write, research, discuss, make connections, and develop visual literacy skills. This course covers the history and context of visual art from prehistoric to present day from a diverse range of cultures and civilizations around the world. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 10-12

2023 AP exam fee: \$97.00

Prerequisite: None

Sculpture I (0.5 credit – 1 semester)

Do you like working with your hands, manipulating and forming materials to create unique art works? If yes, then sculpture is a course you need to experience. Sculpture is a studio course designed to present students with the basic skills for constructing three-dimensional art forms and techniques to enhance and finish surfaces. Students will explore a wide variety of media including but not limited to wood, plaster, clay, metals and digital 3D modeling that will be printed into a physical form. Student artwork will have an emphasis on originality, visual communication, craftsmanship and independent planning.

Grade Level: All

Prerequisites: None

**2023/24 Fee: \$32.00*

Health / Life Skills / Physical Education

**Students must take .25 credit of Physical Education PLUS .25 PE elective OR utilize PE Waiver Option*

Health Education (0.5 credit – 1 semester)

The main focus of this course is to practice problem-solving skills, healthy communication, analyzing influences, goal-setting, advocacy and accessing valid and reliable resources in relation to personal health. The units of study include mental health, drug use and abuse, healthy eating, body systems, and healthy relationships, including sex education and violence prevention. The State of Ohio requires that all students shall successfully complete one semester of Health before graduation.

Grade Level: All

Prerequisites: None

Physical Education I (0.25 credit – 1 semester)

This course will provide the opportunity for students to identify/establish personal fitness goals and to create a personal fitness plan. Students will learn to evaluate and adjust their personal fitness plan by utilizing fitness logs to track progress and monitor one's personal goals. Students will engage in aerobic and anaerobic activities and games.

Grade Level: All

Prerequisites: None

Physical Education II (0.25 credit – 1 semester)

This course will provide the opportunity for students to develop the skills and habits necessary for personal lifetime fitness. Students will achieve and maintain a health enhancing level of personal fitness concepts. Students will work on setting personal fitness goals through exercise, cardiorespiratory endurance, body composition, strength, endurance, and flexibility concepts throughout the semester. A variety of health related fitness skills, individual sports, team sports, outdoor activities and recreational games will also be utilized to help increase lifetime fitness and awareness.

Grade Level: All

Prerequisites: None

Strength Training (0.25 credit – 1 semester)

This course is designed for the student who wants to explore multiple strength training exercises incorporated in a weight room setting. Students will learn the benefits of flexibility, progression, and correct lifting technique. Aerobic, anaerobic, and circuit training will be explored through multiple strength training exercises. Written and skill tests will be given throughout the semester.

Grade Level: All

Prerequisites: Physical Education I or II

Mind and Body Wellness (0.25 credit – 1 semester)

This class is designed for students who are interested in improving all aspects of their health for a complete mind and body wellness experience. Students will be participating in daily activities such as yoga, flexibility training, low impact cardiovascular routines, as well as daily relaxation activities. Additionally, students will learn the benefits of healthy lifestyles, practice ways to reduce stress, develop personal wellness plans and improve overall physical fitness. General human anatomy will be reviewed.

Grade Level: 10-12

Prerequisites: None

**2023/24 Fee: \$25.00*

Language Arts

Language Arts Pathway Progression

Grade 9 Options	Grade 10 Options	Grade 11 Options	Grade 12 Options	Electives
English I OR Honors English I	English II OR Honors English II	English III OR AP Language & Composition	English IV OR AP Literature & Composition	Best Sellers Creative Writing I Creative Writing II Words from the Wild Speech & Debate Journalism I Journalism II Journalism III Yearbook

English I (1.0 credit – 2 semesters)

In this ninth grade college-preparatory course, students interact with Ohio's Learning Standards (grade band 9-10) through integrated units of study. The analysis of texts from a broad range of cultures and time periods allows for argument and explanatory writing opportunities. In addition, students participate in collaborative discussions and present research. Writing conventions, vocabulary, and syntax are emphasized.

Grade Level: 9

Prerequisites: None

Honors English I (1.0 credit – 2 semesters)

Honors English I covers the same curriculum as English I. Honors students are expected to progress at a more rapid rate; therefore, additional units of study, activities, and assignments are incorporated. An overview of English Language Arts Advanced Placement (AP) opportunities in later grades is highlighted.

Grade Level: 9

Prerequisites: None

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

English II (1.0 credit – 2 semesters)

In this tenth grade college-preparatory course, students will continue to interact with Ohio's Learning Standards (grade band 9-10) through integrated units of study. Texts read in this grade level will demonstrate more complexity and writing demands will increase. By the end of tenth grade, students will demonstrate independent mastery of the skills assigned to the 9-10 band.

Grade Level: 10

Prerequisites: English I

Honors English II (1.0 credit – 2 semesters)

Honors English II covers the same curriculum as English II with an emphasis on Pre-AP content. Honors students are expected to progress at a more rapid rate; therefore, additional units of study, activities, and assignments are incorporated. Exposure to Advanced Placement strategies, activities, and practice tests are provided in preparation for AP Language and Composition junior year.

Grade Level: 10

Prerequisites: English I

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

English III (1.0 credit – 2 semesters)

In this eleventh grade college-preparatory course, students will study complex texts from various genres, cultures, and centuries including: U.S. documents, American literature, and literary nonfiction, in order to address Ohio's Learning Standards (grade bands 11-12). The craft of narrative, analysis, and argument writing will be emphasized.

Students will be exposed to ACT strategies, preparation and practice tests. Through a variety of research assignments and structured conversations students will synthesize information in order to be college and career ready.

Grade Level: 11

Prerequisites: English II

AP Language and Composition (1.0 credit – 2 semesters)

AP Language and Composition is a college level course in rhetoric, in which students will explore ideas and rhetorical strategies in expository, analytical, narrative and argumentative writing during their junior year. Focusing on nonfiction texts and contexts, students will think deeply about language as a persuasive element. The course will also include a survey of American and world prose literature. The examination of the vibrant relationship of writer, context, audience and argument will be included. The goal of this class is twofold: to help students read complex texts with understanding; and to help students compose writing of ample richness and intricacy in order to communicate effectively. Accomplishing these tasks will translate into success on the AP examination and prepare students for college level writing in the real world. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 11

Prerequisites: English II or Honors English II (recommended)

**2021 AP Exam Fee: \$97.00*

**2023/24 Fee: \$28.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

English IV (1.0 credit – 2 semesters) [Course Informational Video](#)

In this twelfth grade college-preparatory course, students will continue to interact with Ohio's Learning Standards (grade bands 11-12) through integrated units of study. Texts read in this grade level will demonstrate more complexity and writing demands will increase. Emphasis is placed on being college and career ready.

Grade Level: 12

Prerequisites: English III

AP Literature and Composition (1.0 credit – 2 semesters) [Course Informational Video](#)

This college-level course is a survey of both contemporary and classical literature designed for students who wish to hone their ability to identify and articulate complexity, develop a line of reasoning, and transfer outcomes within and across disciplines. Through the study of literature, students will develop a mature awareness of their function in society and their social responsibilities through a profound assessment of the universal themes of literature. These themes will be treated as reflections of the human condition, and the writing that conveys them as the predominant form of communication across cultures. Students will write both personal and analytical essays with a distinct emphasis on understanding functional style, purpose, and organization. Students will also have the opportunity to

take the AP Literature and Composition exam and potentially earn college credit. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 12

Prerequisites: English III or AP Language and Composition (recommended)

**2023 AP exam fee: \$97.00*

**2023/24 Fee: \$19.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Language Arts Electives

These courses *CANNOT* be used as substitutes or replacements for the English graduation requirements listed above.

Best Sellers (0.5 credit – 1 semester)

This course is for students who enjoy reading contemporary fiction and non-fiction and who would like to participate in a discussion group that will explore the ideas and issues in current and past best sellers. This class will promote community literacy and develop life-long readers. This is designed for students who like to read for pleasure. Students will create and participate in book clubs, write book reviews, and learn about contemporary authors through various media sources. Works will be chosen independently with teacher guidance.

Grade Level: All

Prerequisites: None

Creative Writing I (0.5 credit – 1 semester)

This course provides a structured outlet for those with a passion for creative writing. All students will be expected to creatively write in many genres (poetry, short stories, plays, narratives, etc.), and collaboration with peers is a large component of the course. Students will also read pieces that model the types of writing that are expected. Students will focus on various components of creative writing: character description, dialogue, vivid settings, conflict, etc. Publication is a goal of this course.

Grade Level: All

Prerequisites: None

Creative Writing II (0.5 credit – 1 semester)

Students with a desire to explore writing style and craft (figurative language, syntactic structures, mature diction, etc.) will produce prose that is specific and purposeful in this course. Analysis of mentor texts and an in-depth genre study will allow students to examine specific writing techniques that impact readers. Students will participate in collaborative writing workshops in which they will consistently receive encouragement and suggestions for revision. Oral and written publication of students' own work is a requirement for this course.

Grade Level: All

Prerequisites: Creative Writing I

Journalism I (1.0 credit – 2 semesters)

First year Journalism students will learn about the major functions of newspaper production, including basic news writing, layout and design, and editing. Students will produce stories that will appear in the student newspaper, The Chronicle, thecspn.com, and will be required to solicit advertising. During the second semester, students will continue to write for the paper and the website but will also focus on layout principles and software like InDesign and Photoshop. Composition, editing, and decision-making will be explored throughout the course as well.

Grade Level: 10-12

Prerequisites: English I (Application and Journalism teacher approval required)

Journalism II (1.0 credit – 2 semesters)

Journalism II is available for students who serve in an editorial capacity for The Chronicle, the Mason High School student newspaper. Students will be required to take Journalism I as a prerequisite. Students will be interviewed and appointed to editorial staff positions by the advisor. Editorial staff positions include: Editor, Assistant Editor, Layout Editor, Business Manager, Copy Editor, Photo Editor and Sports Editor.

Grade Level: 11-12

Prerequisites: Journalism I (Application and Journalism teacher approval required)

Journalism III (1.0 credit – 2 semesters)

Journalism III is available for students who want to continue their study of Journalism at a higher level. These students will serve in leadership roles as part of the Executive and/or Editorial Staff. Students will be required to successfully complete Journalism I and II. Students will be given the opportunity to work on independent research projects. Students will compile a portfolio of works in preparation for application to college Journalism schools.

Grade Level: 12

Prerequisites: Journalism II (Application required)

Speech and Debate (0.5 credit – 1 semester)

This course combines the art of public speaking through the disciplines of original oratory, literary interpretation and acting, and limited-prep delivery with the study and practice of theoretical and modern debate principles and procedures. It thoroughly explores the speech and debate (forensics) preparation required for tournament-style competition, such as selecting speech topics, researching/documenting sources, composing original works, cutting/splicing performance scripts, designing case layouts for debate, and enhancing verbal and physical delivery performance cues. In addition, students participate in peer critiques and self-evaluations while developing an ongoing appreciation for both performer conduct and audience etiquette.

Grade Level: All

Prerequisites: None

Words from the Wild: Environmental Literature (0.5 credit – 1 semester)

Weather permitting, this course will require going outside during class to observe and write about nature. The course focuses on forests, rivers, mountains, oceans, deserts, and lakes, and the wild animals and plants that live there. Students who are interested in the great outdoors will enjoy reading nature stories, poems, and essays by women and men who share their passion. Students will be encouraged to try a variety of nature related, hands-on activities. As part of this course, interested students may volunteer for outdoor community service. Any 12th grader with a willingness to go outside is welcome.

Grade Level: 12

Prerequisites: None

**2023/24 Fee: \$6.00*

Yearbook (1.0 credit – 2 semesters)

The outcome of this course is to produce a 280+ page yearbook for the given year. Students will be responsible for taking photos of school events, selecting and designing layouts, and total creation of the book. Because space is limited, students must apply for consideration. Applications will be made available prior to scheduling.

Grade Level: 10-12

Prerequisites: English I and Yearbook teacher approval

Mathematics

There are several different possible pathway progressions in mathematics. Below are the most typical pathway progressions. If you have questions about what courses are right for you in your mathematics progression, please discuss with your current math teacher and/or school counselor. All students must have 4 credits of mathematics to satisfy graduation requirements and 1 credit must be Algebra II.

Mathematics Pathway Progression I

8 th Grade Course	9 th Grade Course	10 th Grade Course	11 th Grade Course Options	12 th Grade Course Options
8 th Grade Math	Algebra I	Geometry OR Honors Geometry	Algebra II OR Honors Algebra II OR Mathematical Models & Reasoning OR Statistics	Precalculus OR Honors Precalculus OR Mathematical Models & Reasoning OR Statistics OR AP Statistics

**Some mathematics courses can be taken concurrently, please see course descriptions below for further information and consult current math teacher for guidance*

Mathematics Pathway Progression II

8 th Grade Course	9 th Grade Course	10 th Grade Course	11 th Grade Course Options	12 th Grade Course Options STEAM Interests
Algebra I	Geometry OR Honors Geometry	Algebra II OR Honors Algebra II OR Mathematical Models & Reasoning OR Statistics	Precalculus OR Honors Precalculus OR Mathematical Models & Reasoning OR Statistics OR AP Statistics	Calculus OR AP Calculus AB OR AP Calculus BC OR AP Statistics

**Some mathematics courses can be taken concurrently, please see course descriptions below for further information and consult current math teachers for their recommendation.*

Math Flow Chart for Courses After Geometry

Algebra I (1.0 credit – 2 semesters)

Algebra I furnishes the language and tools necessary for study of higher mathematics. Primary emphasis will be on the solution of linear, quadratic and exponential equations and operations with polynomials including order of operations, factoring, radical expressions, graphing equations and inequalities, solving systems of equations and interpreting data. Conceptual understanding and utilizing Algebra as a problem-solving tool will be emphasized.

Grade Level: 9

Prerequisites: None

Scientific calculator required

Geometry (1.0 credit – 2 semesters)

Geometry examines the theorems, properties, and concepts of plane and 3D shapes both on and off the coordinate plane, emphasizing connections to algebra concepts. Concepts will be developed from coordinate, transformational and synthetic perspectives, emphasizing algebraic-geometric connections. There will be extensive use of a computer-based geometry program to preview, reinforce and gain mastery of geometric concepts.

Grade Level: 9-10

Prerequisites: Algebra I

Scientific calculator required

Honors Geometry (1.0 credit – 2 semesters)

Honors Geometry is an in-depth course designed for strong math students. Emphasis will be on combining prior learning from Algebra I with geometry topics in order to solve problems. A variety of styles will be used such as individual work, computer activities, small group work, and whole group work. Mastery of Algebra I topics is expected.

Grade Level: 9-10

Prerequisites: Algebra I

Scientific calculator required

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Algebra II (1.0 credit – 2 semesters)

Algebra II is an extension of the material covered in Algebra I. Topics of study will include linear systems, quadratic, polynomial, rational, radical, trigonometric, exponential and logarithmic functions; complex numbers; probability, interpreting data and making inferences; including applications that develop problem-solving and modeling techniques. Conceptual understanding and utilizing Algebra as a problem-solving tool will be emphasized.

Grade Level: 10-11

*Prerequisites: Geometry or Honors Geometry**

Scientific calculator required

**Can be taken concurrently with Geometry or Honors Geometry if appropriate for individual students – please consult with your current math teacher for their recommendation.*

Honors Algebra II (1.0 credit – 2 semesters)

Honors Algebra II is a rigorous extension of the material covered in Algebra I. Concepts will be developed from a theoretical-proof approach. Topics of study will include linear systems, quadratic, polynomial, rational, trigonometric, exponential, and logarithmic functions; matrices; conic sections; complex numbers; probability, interpreting data and making inferences. Problem-solving and critical thinking techniques are strengthened through the applications presented in preparation for Honors Pre-Calculus and AP Calculus.

Grade Level: 10-11

*Prerequisites: Geometry or Honors Geometry**

Graphing calculator required (TI recommended)

**Can be taken concurrently with Geometry or Honors Geometry if appropriate for individual students – please consult with your current math teacher for their recommendation.*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Mathematics Modeling and Reasoning (1.0 credit – 2 semesters)

MMR is a course designed for students who are looking to pursue a career in a non-STEM related field. Throughout the course, students will be discovering and developing a deeper understanding of algebraic and statistical concepts. Students will be expected to collaborate and persevere with group members DAILY in order to problem solve through different scenarios. Due to the investigative nature of the course and the emphasis on prior knowledge, limited direct instruction is used in this class.

Grade Level: 10-12

Prerequisites: Successful completion of Algebra I and Geometry

2023/24 Fee: \$8.00

Statistics (1.0 credit – 2 semesters)

Statistics at Mason High School is an introductory course. Students will learn how graphical displays are used to analyze data, how to calculate probabilities, and how statistics are used to determine if certain claims are true. This two semester course is for Juniors and Seniors that have completed Geometry. This class can also be taken by Juniors for the Algebra 2 Equivalence track. Statistics is a perfect course for those who plan to go into nursing, business, education, engineering or just about any profession.

Grade Level: 10-12

Prerequisites: Geometry

Scientific calculator required

2023/24 Fee: \$5.00

Advanced Placement Statistics (1.0 credit – 2 semesters)

This is a challenging course that includes a detailed study of elementary statistics. Students will be exposed to the following topics: Data Collection, Exploratory Data Analysis, Probability, and Statistical Inference. AP Statistics is designed for students who have a strong mathematical and language arts background. The rigor and pace of this course can be demanding at times. The material you will master will be very applicable in most career fields offered at the collegiate level. All students who are enrolled in an AP course will be registered to take the AP exam for that course and will be required to pay the AP exam fee. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 11-12

2023 AP exam fee: \$97

Prerequisites: Algebra II or Honors Algebra II

2023/24 Fee: \$10.00

Consult with your current math teacher for their recommendation or AP Stats teacher for their recommendation.

Graphing calculator required (TI recommended)

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Precalculus (1.0 credit – 2 semesters)

Topics will include analysis of polynomial, rational, logarithms, exponential and trigonometric functions. The course will explore polar graphing, complex numbers, vectors, conic sections and trigonometric identities. Modeling of real world phenomena is incorporated throughout the course.

Grade Level: 11-12

Prerequisites: Algebra II or Honors Algebra II

Graphing calculator recommended (TI recommended)

Honors Pre-Calculus (1.0 credit - 2 semesters)

Honors Pre-Calculus is an in-depth, rigorous, elective course intended for college-bound students who intend to pursue a major in a STEAM-related field. Emphasis will be placed on problem-solving, written and verbal communication, mathematical modeling, and synthesis of the topics covered in the course. Topics will include foundations of analysis, analysis of polynomial, rational, exponential, logarithmic and trigonometric functions, convergence and divergence of sequences and series, parametric and polar equations, vectors, conic sections, and an introduction to limits. Concepts will be discovered and developed from graphical, numerical, and theoretical-proof perspectives in a discussion-based setting.

Grade Level: 11-12

Prerequisites: Algebra II or Honors Algebra II

Graphing calculator recommended (TI recommended)

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Calculus (1.0 credit – 2 semesters)

Calculus is designed to introduce students to the concepts of Calculus, including limits, differentiation, optimization and integration. This is a challenging course that includes a detailed study of elementary functions. Calculus is designed for students who have a strong Pre-Calculus background.

Grade Level: 11-12

Prerequisites: Precalculus or Honors Precalculus

Graphing calculator required (TI recommended)

Advanced Placement Calculus AB (1.0 credit – 2 semesters)

This is a challenging course that includes a detailed study and analysis of elementary functions that requires problem solving and critical thinking skills. AB Calculus is designed for students who have a strong Pre-Calculus background. Topics include college level differential and integral calculus. All students who are enrolled in an AP course will be registered to take the AP exam for that course and will be required to pay the AP exam fee. Please refer back to the AP portion of the Program of Studies for further information.

Grade Level: 12

2023 AP exam fee: \$97

*Prerequisites: Pre-Calculus or Honors Pre-Calculus **CCP Precalculus is not equivalent to these courses***

Graphing calculator required (TI recommended)

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement Calculus BC (1.0 credit – 2 semesters)

This is a very rigorous course that includes a detailed study and analysis of elementary functions that requires problem solving and critical thinking skills. BC Calculus is designed for the student with an excellent Honors Pre-Calculus background combined with exceptional mathematical study skills. Topics include college level differential and integral calculus as well as polar coordinates and transcendental functions. It is comparable to a full year of college Calculus. All students who are enrolled in an AP course will be registered to take the AP exam for that course and will be required to pay the AP exam fee. Please refer back to the [AP portion of the Program of Studies](#) for further information.

Grade Level: 12

2023 AP exam fee: \$97

Prerequisites: Precalculus or Honors Pre-Calculus (CCP Precalculus is not equivalent to these courses)

-Consult with your current math teacher for their recommendation or AP Calculus BC teacher for their recommendation. It is strongly recommended that Sophomores do not take AP Calculus BC; taking AP Calculus AB is preferred before this course.

Graphing calculator required (TI recommended)

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Science

There are several different possible pathway progressions in science. Below are the most typical pathway progressions. If you have questions about what courses are right for you in your science progression, please discuss with your current science teacher and/or school counselor. All students must have 3 units/credits of science to satisfy graduation requirements; 1 unit/credit of physical science, 1 unit/credit in biology, and 1 unit/credit of advanced study in science.

Additional Guidance Resources:

- [Quick MCS Science Course Designation & Graduation Requirements Guidance](#)

Sample Science Pathway Progression I - Typical Pathway Progression

8 th Grade Course	9 th Grade Course	10 th Grade Course	11 th and/or 12 th Grade Science Elective Course Options Based Upon Science Interest Area
			<i>*All courses go towards satisfying the 1 unit/credit of advanced study in science graduation requirement</i>
8 th grade science	Physical Science <i>*Satisfies 1 unit/credit of physical science graduation requirement</i>	Biology <i>*Satisfies 1 unit/credit of life science graduation requirement</i>	<ul style="list-style-type: none"> • Chemistry (1.0 credit) • Physics (1.0 credit) • Cold Case MHS: Speaking for Those Who Cannot (1.0 credit) • Physical Geology (1.0 credit) • Zoology (.5 credit) • Environmental Science (.5 credit) • The Science Behind Our Food (.5 credit) • Forensics (.5 credit) • Honors Computer Programming II • Honors Computer Programming III • AP Computer Science A • AP Computer Science Principles

Sample Science Pathway Progression II-A – STEM focused/post secondary pathway

8 th Grade Course	9 th Grade Course	10 th Grade Course	11 th Grade Course	11 th and/or 12 th Grade Elective Course Options Based Upon Science Interest Area
8 th grade science	Physical Science <i>*Satisfies 1 unit/credit of physical science graduation requirement</i>	Biology <i>*Satisfies 1 unit/credit of life science graduation requirement</i>	Chemistry <i>*Satisfies 1 unit/credit of advanced study in science graduation requirement</i>	<ul style="list-style-type: none"> • Physics (1.0 credit) • AP Physics I (1.0 credit) • AP Physics C: Mechanics (1.0 credit) • AP Physics C: Electricity and Magnetism (1.0 credit) • AP Biology (1.0 credit) • AP Chemistry (1.0 credit) • Honors Anatomy & Physiology (1.0 credit)

				<ul style="list-style-type: none"> • Cold Case MHS: Speaking for Those Who Cannot (1.0 credit) • Physical Geology (1.0 credit) • Zoology (.5 credit) • Environmental Science (.5 credit) • The Science Behind Our Food (.5 credit) • Forensics (.5 credit)
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Sample Science Pathway Progression II-B – STEM focused/post secondary pathway

8 th Grade Course	9 th Grade Course	10 th Grade Course	11 th and/or 12 th Grade Science Elective Course Options Based Upon Science Interest Area
			<i>*All courses go towards satisfying the 1 unit/credit of advanced study in science graduation requirement</i>
8 TH grade science	Biology <i>*Satisfies 1 unit/credit of life science graduation requirement</i>	Chemistry <i>*Satisfies 1 unit/credit of physical science graduation requirement</i>	<ul style="list-style-type: none"> • Physics (1.0 credit) • AP Physics I (1.0 credit) • AP Physics C: Mechanics (1.0 credit) • AP Physics C: Electricity and Magnetism (1.0 credit) • AP Biology (1.0 credit) • AP Chemistry (1.0 credit) • Honors Anatomy & Physiology (1.0 credit) • Cold Case MHS: Speaking for Those Who Cannot (1.0 credit) • Physical Geology (1.0 credit) • Zoology (.5 credit) • Environmental Science (.5 credit) • The Science Behind Our Food (.5 credit) • Forensics (.5 credit) • Honors Computer Programming II • Honors Computer Programming III • AP Computer Science A • AP Computer Science Principles

Sample Science Progression Pathway III - STEM focused/post-secondary pathway

8 th Grade Course	9 th Grade Course	10 th Grade Course	10 th 11 th and/or 12 th Grade Course Options Based Upon Science Interest Area
Physical Science <i>*Satisfies 1 unit/credit of physical science graduation requirement</i>	Biology <i>*Satisfies 1 unit/credit of life science graduation requirement</i>	Chemistry <i>*Satisfies 1 unit/credit of advanced study in science graduation requirement</i>	<ul style="list-style-type: none"> • Physics (1.0 credit) • AP Physics I (1.0 credit) • AP Physics C: Mechanics (1.0 credit) • AP Physics C: Electricity and Magnetism (1.0 credit) • AP Biology (1.0 credit) • AP Chemistry (1.0 credit) • Honors Anatomy & Physiology (1.0 credit) • Cold Case MHS: Speaking for Those Who Cannot (1.0 credit) • Physical Geology (1.0 credit) • Zoology (.5 credit) • Environmental Science (.5 credit) • The Science Behind Our Food (.5 credit) • Forensics (.5 credit) • Honors Computer Programming II

			<ul style="list-style-type: none"> • Honors Computer Programming III • AP Computer Science A • AP Computer Science Principles
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Science Pathways Flow-Chart - Diagram to show visually the different science pathways available for students.

Quick Science/Math Reference Tool that shows what prerequisite and/or corequisite math courses are needed for success in science courses.

Physical Science (1.0 credit – 2 semesters)

How do scientists solve problems? How do you choose what makes a material best for a project? What makes physics toys so fun? This course will serve as both a foundation and a springboard for all science courses. This class is designed to develop skills in lab technique, while exposing students to chemistry and physics key concepts. In this class you will design and conduct your own investigations, use the engineering design process to solve problems, and engage in an overall hands-on approach in your learning. The goal of this course is to create scientific literate, lifelong learners, capable of critical thinking and problem solving.

Grade Level: 9

Pre or Corequisite: Algebra I

**2023/24 Fee: \$6.00*

Biology (1.0 credit – 2 semesters)

This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. The first semester consists of the details of cellular biology while the second semester focuses on fundamental concepts of heredity and evolution. Throughout the course, inquiry-based instruction will be used to explore the living world, the physical environment and the interactions within and between them.

Grade Level: 9-10

**2023/24 Fee: \$11.00*

Physical Geology: Earth Materials and Processes (1 credit – 2 semesters)

EARTH, our favorite planet, our home. It is a wild and beautiful place filled with natural phenomena. From the moving continents, erupting volcanoes, the ever changing landscape, abundant resources, hidden minerals & rocks, and even more to be explored; it is certainly one of a kind. This course is designed to help you interpret and understand all of this and much more. In order to do so, we will investigate and study the interactions between the four major Earth's spheres, including the geosphere, atmosphere, hydrosphere and biosphere in order to explain Earth's formation, processes, history, landscapes, and Earth's dynamic changes over time. Students will participate in laboratory exercises, small group activities, web based investigations, class discussions, projects, and research.

Grade Level: 10-12

Prerequisites: Biology

**2023/24 Fee: \$5.00*

Chemistry (1.0 credit – 2 semesters)

Why do chemical reactions occur? How do the fireworks at Kings Island get so many different colors? How many s'mores can you make from a bag of marshmallows and a box of graham crackers? What would happen if you brought a balloon to the top of Mt. Everest? By setting things aflame, making fantastic colors, and creating stinky smells you will explore these burning questions, as well as many more, over the course of the school year. This heavily lab-based and math-intensive course will help prepare you for other advanced science classes offered at MHS, as well as understanding how atoms affect the entire universe, and just how important that is to your daily life!

Grade Level: 10-12

Pre or Corequisite: Algebra II

**2023/24 Fee: \$12.00*

Honors Anatomy and Physiology (1.0 credit – 2 semesters)

You live with it 24 hours a day, but how well do you really know it?

If you want to learn more about the wonders of the human body, then Honors Anatomy and Physiology is for you! This honors weighted course is a fast pace, in depth investigation of the incredible human body system by system. The course will explore the structure of the human body, the ways the human body maintains its internal environment, diseases and disorders related to each body system, and the chemical and electrical controls that help coordinate these systems. This course has a tremendous amount of hands-on lab opportunities, sheep organ dissections, and a culminating week long fetal pig dissection to close out the course!

Grade Level: 11-12

Prerequisites: Biology and Chemistry

**2023/24 Fee: \$30.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement Biology (1 credits – 2 semesters) [Course Information Video](#)

This rigorous biology program delves into the microscopic intricacies of cells, the grandeur of biological systems, and the complexities of genetics. This dynamic curriculum combines hands-on experiments and interactive discussions to allow students to not only meet but exceed the demands of the AP Biology exam. This course is designed to push the boundaries of your understanding, fostering critical thinking and scientific inquiry. Students that complete the course will have a better understanding of biology's impact on their everyday life while developing the resilience and skills needed to tackle the challenges of advanced coursework. Get ready to unleash your inner biologist and conquer the AP Biology exam with confidence, curiosity, and a resilient spirit!

Grade Level: 11-12

Prerequisites: Biology and Chemistry

**2019 AP exam fee: \$97.00*

**2023/24 Fee: \$40.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement Chemistry (1 credit – 2 semesters) [Course Information Video](#)

Did you love chemistry and you are intrigued to learn more? Did you find that you were pretty good at chemistry and are eager for more of a challenge? Then AP Chemistry is for you. We delve deeper into the traditional topics of chemistry and you will add advanced topics to your repertoire. Safely working with fire, concentrated acids and intricate instrumentation are skills you will master. Problem solving with classmates is commonplace. Students who take AP Chemistry become better students, time managers and communicators. You will be more prepared for rigor in college and beyond.

Grade Level: 11-12

Prerequisites: Chemistry

Prerequisite: Algebra II (Concurrent registration in Honors Pre-Calculus is recommended)

**2023/24 Fee: \$45.00*

**2019 AP exam fee: \$97.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Physics (1.0 credit – 2 semesters)

What is "physics"? You may be wondering and have been told that it is an important and useful course to take. Physics IS definitely useful and important. It's also fun and intriguing for many reasons! Physics can be used to describe and explain so many things that occur in your everyday life. We will discuss applications to satellites, driving, sports, collisions, circuits, sunburns, glasses, and many more. You will apply your knowledge by racing mechanical energy cars, analyzing the physics in movies, launching projectiles off of high places, and regularly solving

practical lab challenges in a team with your peers. Join us for a very hands-on course where you will learn “how things work”!

Grade Level: 10-12

Prerequisites: Geometry

**2023/24 Fee: \$10.00*

Advanced Placement Physics 1: Algebra-Based (1.0 credit – 2 semesters)

Have you ever wondered how stuff works? How does a rocket get to Mars? Why don't satellites crash into the earth? How does a soccer player “bend it like Beckham”? How can a boat made of cardboard support the weight of a physics student? We will discuss these questions and many others. You will learn to begin an exploration of a physical phenomenon by collecting and graphically analyzing data. You will create models that can be applied to increasingly more complex phenomena. You will learn to communicate your ideas in the language of physics. Through it all, you will be challenged with how stuff really works.

AP Physics 1: Algebra-Based is a national college-level course in physics. The curriculum for this course is designed by College Board. Students will spend approximately 25% percent of instructional time engaged in laboratory work. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information.

Grade Level: 11-12

Pre or Corequisites: Algebra II

**2019 AP exam fee: \$97.00*

**2023/24 Fee: \$10.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement Physics C: Mechanics (1.0 credit – 2 semesters)

Are you ready to answer the question, when am I ever going to use the math I've learned? Then this is the place for you! Through the year you will engage in hands-on labs you design and implement to determine “the why” of everyday phenomena. While analyzing these experiments, you will learn how to communicate accurately, concisely, and respectfully with both mathematical equations and words. Some examples of these activities may include dropping water balloons on your instructor, launching projectiles at moving objects, pigs flying around the room, and creating bungee cords for action figures. Basically, this is the class where we try to figure out the rules of the game we are all playing... LIFE.

AP Physics C: Mechanics is a national calculus-based course in physics. The curriculum for this course is designed by College Board and students are required to spend 25% of class time engaged in hands-on activities. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information.

Grade Level: 11-12

Pre or Corequisite: Precalculus (with junior/senior standing) or any level of calculus

**2023/24 Fee: \$10.00*

**2019 AP exam fee: \$97.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement Physics C: Electricity & Magnetism (1.0 credit – 2 semesters)

Are you super interested in becoming an engineer? Are you interested in circuitry, computer programming, or building computers? This course will challenge students to strengthen their abstract thinking skills and analyze situations that are too small to see with the naked eye. Students will see how their everyday mechanical world is controlled by our technological advancements. Calculus skills will be utilized in a variety of applications on a daily basis.

AP Physics C: Electricity & Magnetism is a national calculus-based course in physics. The curriculum for this course is designed by College Board and students are required to spend 25% of class time engaged in hands-on activities. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information.

Grade Level: 11-12

*2019 AP exam fee: \$97.00 *2023/24 Fee: \$10.00

Pre or Corequisites: AP Physics C: Mechanics AND an AP Calculus course (AP Calculus BC recommended)

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Forensic Science (0.5 credit – 1 semester)



Forensic science is a lab-based, cross-curricular course in which students will use scientific knowledge, complex reasoning and technology to investigate, establish and present facts related to crime. This course will integrate concepts from Math, English, and Social Studies, along with a variety of sciences including Chemistry, Biology, Anatomy, Genetics, Earth Science and Physics.

Grade Level: 10-12

Prerequisites: Biology

*2023/24 Fee: \$7.00

Cold CaseMHS: Speaking for those who cannot (1.0 credit-2 semesters)



This course introduces students to real-world investigation processes of criminal cases classified as cold cases. The course will be a cross curricular experience in which students will search and read resources in a critical manner to glean important information about the investigative process and resource validation. Students will evaluate scientific data from evidence available on open-source databases to understand how the data is used in the investigative process. Students will be exposed to experts in the field of Forensic Science, Forensic Psychology, Law enforcement, Criminal Law, Cold Case Investigation, Podcast research and presentation, and many more aspects of case research. The class will lead students through the strategic planning process of investigation into cold cases, missing persons cases, or wrongful conviction cases that are **currently still open**. Students will collaboratively work in teams to create, produce, and record a podcast, as well as, give a formal presentation to the public describing their work that has been done on the case. The goal is to show the capabilities of students to research, review, communicate, and think critically about Cold Case studies.

Grade Level: 11 - 12

Prerequisite: Forensic Science

*2023/24 Fee: \$10.00

Zoology (0.5 credit – 1 semester)



For young and old alike, zoos are one of the most popular places to visit. Each year, over 185 million people visit zoos and aquariums throughout the United States for close encounters with some of the most adorable, exotic, and strange animals on our planet.

In this introductory laboratory based course, we have crafted a wonderful introduction to the fundamentals of Zoology through the eyes of a zoologist, bringing you up close and personal with a breathtaking variety of animal species such as jellyfish, insects, sharks, crocodiles, birds of prey, lions and so much more. Zoology will focus on the increasing complexity of heterotrophs starting with invertebrates and concluding with vertebrates. Students will investigate and compare these organisms through observation of live specimens, preserved specimens, and the dissection of several organisms. The curriculum will emphasize student involvement through various “hands-on” activities, individually directed studies, and cooperative learning.

Grade Level: 10-12

Prerequisites: Biology

*2023/24 Fee: \$25.00

Environmental Science (0.5 credit – 1 semester)

Environmental science is a one semester course in which students will explore the connections and interactions among the living and nonliving components of the environment. Students will have the opportunity to analyze the processes that are naturally changing the planet and examine the impact humans have on the global environment. Students will build upon this knowledge to evaluate current issues related to the changing environment and develop solutions for resolving them. This project-based course includes hands-on laboratory investigations and exploration of outdoor environments to study local ecosystems.

Grade Level: 10-12

Prerequisite: Biology

**2023/24 Fee: \$15.00*

The Science Behind our Food (0.5 credit – 1 semester)

Are you interested in food? Do you want to learn how to cook or perhaps expand your skills? Do you want to know more about how the food we eat impacts our body's ability to function? Maybe you're interested in a food-related career? Well, this is the course for you! In this student-directed (and teacher guided) course, students will work in small groups to pick a cuisine to research, plan and cook for the class as well as learn content related to the principles of food science. Students will also participate in cooking labs to apply theoretical content to hands-on experiences. As an extra bonus, students will walk away from this course with a notebook of recipes, a personalized apron and valuable life skills!

NOTE: Students with food allergies must be aware that the classroom will likely be contaminated with common food allergens during days of cooking. Although accommodations can be made for some allergy types, please consider the type and severity of the allergy before signing up for the course.

Grade Level: 10-12

Prerequisite: Biology

**2023/24 Fee: \$35.00*

Social Studies

All students must have 3 credits of social studies to satisfy graduation requirements. Those credits need to include .5 of American Government, 1.0 of American History, and 1.0 of World History. If you have questions about what courses are right for you in your social studies progression, please discuss with your current social studies teacher and/or school counselor.

Social Studies Pathway Progression

Grade 9 Options	Grade 10 Options	Grade 11 Options	Electives
World History after 1750 OR Honors World History after 1750	American History after 1877 OR AP American History	American Government OR AP American Government & Politics	AP Human Geography (9) AP European History (11-12) AP Psychology (11-12) AP Microeconomics (11-12) AP Macroeconomics (11-12) AP Comparative Government & Politics (11-12) Psychology (10-12) Sociology (11-12) Economics (11-12) Current Global Issues (11-12) Law & Criminal Justice (11-12) Ethnic Studies (9-12) Leadership, Public Policy and You (11-12) Queen City Studies (11-12)

		Perspectives on Sports and American Culture (10-12)
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World History after 1750 (1.0 credit – 2 semesters) **MM**

This survey course in world history will focus on significant world events, people and places from 1750 to the present. This class is designed to introduce students to significant historical ideas and events that have helped shape the world today. The students will study political, economic, geographic, religious and cultural events throughout the world including Africa, Asia, Europe, Middle East and the Americas.

Grade Level: 9

Prerequisites: None

Honors World History after 1750 (1.0 credit – 2 semesters) **MMM**

This advanced survey course in world history will focus on significant world events, people and places from 1750 to the present. This class is designed to introduce students to significant historical ideas and events that have helped shape the world today. Students will study political, economic, geographic, religious and cultural events throughout the world, including Africa, Asia, Europe, Middle East and the Americas. Emphasis will be placed on continued exposure to higher level historical reading and writing skills. Students should display a passion for the social studies content and strong writing and reading comprehension skills. This course will work to prepare students for AP level social studies courses.

Grade Level: 9

Prerequisites: None

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement Human Geography (1 credit – 2 semesters) **MMM**

This college-level course in AP Human Geography will investigate "the why of where." Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. It asks students to think spatially about the world. Students will explore human interaction with the environment from a local to global scale and study the distribution, processes and effects of the human population on our planet. Students will also learn how to use and interpret maps, data sets, geographic models, GIS, aerial photographs and satellite images. AP Human Geography may be one of the most relevant courses for students preparing to be active global citizens. This college-level course follows the College Board curriculum and helps prepare students for the Advanced Placement Human Geography exam in May. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 9

Prerequisite: None

**2023 AP exam fee: \$97.00*

**2023/24 Fee: \$22.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

American History from 1877 (1.0 credit – 2 semesters) **MM**

This survey course of American History will focus on events chronologically from 1877 to the present. Emphasis will be placed on helping students use acquired knowledge to analyze and draw conclusions with regard to specific units of study. The course studies the progression of the United States through industrialization, imperialism, World War I, Post World War I, Great Depression, World War II, Cold War, Civil Rights, through modern times.

Grade Level: 10

Prerequisites: World History or Honors World History

Advanced Placement American History (1.0 credit – 2 semesters)



The course examines American History chronologically with an emphasis on evaluation, synthesis and analysis of primary documents. This course will follow a different chronological approach (1491-present) than American History from 1877. This college-level course follows the College Board curriculum and helps prepare students for the Advanced Placement American History exam in May. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 10

2023 AP exam fee: \$97.00

Prerequisites: World History or Honors World History

**2023/24 Fee: \$22.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement European History (1.0 credit – 2 semesters)



Students will study the historical events, concepts, and personalities that shaped and determined Western civilization from the Renaissance to the Modern Era. The course will address the chronology of major events and trends from approximately 1450 to the present, principal themes in modern European history, analysis of historical evidence, and skills to effectively express historical understanding in writing. This college-level course follows the College Board curriculum and helps prepare students for the Advanced Placement European History exam in May. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 11-12

**2023 AP exam fee: \$97.00*

Prerequisites: World History or Honors World History

**2023/24 Fee: \$25.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

American Government (0.5 credit – 1 semester)



In this course, the origins, values and organizations of democratic government are examined and evaluated. Using the background of American History, the student examines the meaning and applications of the U.S. Constitution, our civil liberties, the role of political parties and the relationship of our government to the economy. Students will also examine the role of state and local government. Students will prepare to be active, participatory citizens – informed about national, state and local issues.

Grade Level: 11-12

Prerequisites: American History or AP American History

Advanced Placement US Government & Politics (1.0 credit – 2 semesters)



AP US Government & Politics provides students a college-level, non-partisan introduction to key political concepts, ideas, institutions, policies, interactions, roles and behaviors that characterize the constitutional system and political culture of the US. Students will study foundational documents, Supreme Court decisions, and other resources to understand relationships and interactions among political institutions, processes, and behaviors. Students will engage in disciplinary practices requiring them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 11-12

2023 AP exam fee: \$97.00

Prerequisites: American History or AP American History

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Advanced Placement Comparative Government and Politics (0.5 credit – 1 semester)



AP Comparative Government and Politics introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and the political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues. **This course does not meet the Government graduation requirement.** All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 11-12

2023 AP exam fee: \$97.00

Prerequisites: None

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Psychology (.5 Credit – 1 semester)



Psychology is a course designed to introduce students to the study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. A goal of this class is to increase awareness of the ways psychological theories impact everyday life. The course will emphasize critical thinking and problem solving skills as well.

Grade Level: 10-12

Prerequisites: World History or Honors World History

Sociology (.5 Credit – 1 semester)



An elective course that studies human society and social behavior. Positive human relationships are an essential part of a civilized society and sociology teaches us how to examine the values, beliefs, and lifestyles of those around us, in conjunction with historic events, to help us better understand how people interact with one another in society. This course deals with the social atmosphere that helps to make us who we are and how we behave. We will cover topics such as culture, violence, deviance, social control, socialization, personality, group behavior, social class, and social institutions. The key component of this course is to study ourselves and the society that influences our behavior.

Grade Level: 11-12

Prerequisites: American History or AP American History

Ethnic Studies (.5 Credit – 1 semester)



Ethnic Studies is an elective course that operates from the consideration that race and racism have been, and continue to be, profoundly powerful social and cultural forces in American society. These courses focus on the experiences of African Americans, Asian Americans, Latinx Americans, Native Americans, and other racialized peoples in the United States. Course is grounded in the concrete situations of people of color, and use a methodological framing that emphasizes both the structural dimensions of race and racism and the associated cultural dimensions

Grade Level: 9-12

Prerequisites: None

Advanced Placement Psychology (1 credit – 2 semesters)



This college-level course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within a psychology. Students also learn about the ethics

and methods psychologists use in their science and practice. A goal of this class is to increase awareness of the ways psychological theories impact everyday life. The course will emphasize critical thinking, problem solving, and writing skills. This college-level course follows the College Board curriculum and helps prepare students for the Advanced Placement Psychology exam in May. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 11-12

Prerequisites: None

2023 AP exam fee: \$97.00

**2023/24 Fee: \$20.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Law and Criminal Justice (0.5 credit – 1 semester)

This course is designed to engage students in a critical examination of their legal responsibilities and rights. Students have the opportunity to discuss practical legal problems, contemporary legal issues, and the ramifications of breaking the law. The goal of this class is to provide students with a sense of belonging in society through empowerment with knowledge of the law. Students will study the judicial process as part of the political system with a focus on the participants (police, lawyers, judges, interest groups, litigants and jurors) and the legal process.

Grade Level: 11-12

Prerequisites: None

Current Global Issues (0.5 credit – 1 semester)

This class will examine key social, cultural, economic and political issues around the world today. From this analysis students will discuss, debate, and derive conclusions on the best way to solve these global problems. Students will analyze key developments relating to 21st Century globalization and past histories of countries around the world on a daily basis by examining news magazines, newspapers, and scholarly multimedia news programs. The primary focus of this course will deal with key problems various regions around the world are facing in the 21st century and how these difficult issues can be addressed or solved.

Grade Level: 11-12

Prerequisites: None

New Course Leadership, Public Policy, and You** (0.5 credit – 1 semester)

This course will give students a unique learning experience. Students will spend an entire quarter exploring leadership principles while investigating their individual strengths and weaknesses as a leader. Case studies and speakers representing diverse leadership experiences and leaders will be presented giving students an opportunity to shape their own leadership philosophy. The second quarter will deliver a personalized learning experience for students as they apply their leadership philosophy to investigations of local, state, national, and/or global issues that impact our community. Ultimately, students develop and present public policy protocols as potential resolutions to their selected issues.

Grade Level: 11-12

Prerequisites: American History or AP American History

New Course Queen City Studies** (0.5 credit – 1 semester)

Do you like being a tourist? Do you enjoy exploring history hands on? Queen City Studies delves into the captivating history, vibrant culture, and societal issues of Mason and Cincinnati. It will look at a number of American historical topics through the lens of the beloved cities students live and play in everyday and include the diverse perspectives and voices that contribute to the rich history of our region. This course will help you develop a deep understanding of Mason's and Cincinnati's past and present.

Grade Level: 11-12

Prerequisites: American History or AP American History

New CoursePerspectives on Sports & American Culture** (0.5 credit – 1 semester)

This course explores the relationship between athletics and society. Students examine sports through diverse lenses - as spectators, participants, businesses, and medical fields. They probe sports' significance in their lives and culture, from backyard games to pro leagues. Sports seem fun and games but shape and reflect deeper issues - politics, economics, identity. To fully understand America, we must understand how sports drive change, express dreams, and bond communities. Students develop critical thinking skills, sharpening their analysis and debate abilities as they read, watch, and write about sports. More than fandom, this course views sports as a mirror on our culture and lives.

Grade Level: 10-12

Prerequisites: American History or AP American History

Economics (0.5 credit – 1 semester)

This course will enable all students to master the essentials of micro and macroeconomics. Although the course is appropriate for any student, the course will be especially meaningful to students who plan to explore career options in business and finance. Students will gain an understanding of economic concepts through class lectures, group discussions and outside resource professionals. Upon completion of this course it is expected that students will be able to apply what they have learned in decision making as a process of evaluating economic choices and their implications.

Grade Level: 11-12

Prerequisites: None

Advanced Placement Microeconomics (0.5 credit – 1 semester)

This college-level course follows the approved College Board curriculum, providing students a thorough understanding of the principles of economics which apply to both consumers and producers in an economic system. The theoretical basis for microeconomics is that in any economy, resources are limited while wants are unlimited causing choices to be made. Microeconomics places primary emphasis on the nature and functions of product markets, factor markets and the role of government in promoting efficiency and equity in the economy. This advanced placement course, designed to prepare students for the AP Test. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 11-12

Prerequisites: American History and Geometry

2023 AP exam fee: \$97.00

**2023/24 Fee: \$14.00*

Advanced Placement Macroeconomics (0.5 credit – 1 semester)

This college-level course follows the approved College Board curriculum, providing students a thorough understanding of the principles of economics as they apply to the fluctuations in the entire economy. The theoretical basis for macroeconomics is that resources for any society are limited while wants are unlimited which motivates government leaders to seek to minimize the damage that these economic fluctuations cause. Macroeconomics is rooted in microeconomic concepts but its primary emphasis is on the possibilities and limitations of fiscal and monetary policy to stabilize the aggregate measures of growth, inflation and unemployment. In addition, the increasing role of international trade is evaluated. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: 11-12

Prerequisites: American History and Geometry

2023 AP exam fee: \$97.00

**2023/24 Fee: \$20.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

World Languages

A world language credit is not required for graduation; however, most colleges encourage applicants to take 2-3 years of the same language in high school.

German I (1.0 credit – 2 semesters)

Students will be introduced to the language and culture of the German-speaking world using the four skills: listening, speaking, reading and writing. The proficiency level target by the end of 1 year is called "NOVICE MID". That means students can understand and use a number of familiar words, phrases and occasional sentences to communicate on very familiar topics. Students will be expected to communicate in class on a novice level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: None

German II (1.0 credit – 2 semesters)

Students will continue to develop their knowledge of the language and culture of the German-speaking world using the four skills: listening, speaking, reading and writing. The proficiency level target after 2 years is called "NOVICE HIGH". That means students will understand and use short phrases and simple sentences to communicate on familiar topics. Students will be expected to communicate in class, on a novice level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: German I

German III (1.0 credit – 2 semesters)

Students will develop those skills learned in German I and II while continuing to explore German culture and language. The proficiency level target after 3 years is called "INTERMEDIATE LOW". That means students will be able to communicate on familiar topics using simple sentences and series of simple sentences. Students will understand the main idea and some supporting details in authentic messages that they read, view or hear. Students will be expected to communicate in class, on an intermediate level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: German II

AP German (1.0 credit – 2 semesters)

This challenging course is an in-depth study of German language, literature and composition which will prepare the student to take the advanced placement exam in German. Topics covered in the class will include linguistic competence, with special emphasis on speaking, a brief overview of major German authors, and an in-depth study of writing skills with an emphasis on grammatical structure and self-analysis. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information.

Grade Level: All

AP exam fee: \$97.00

Prerequisites: German IV / recommended proficiency level of Intermediate Mid/High

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

French I (1.0 credit – 2 semesters)

Students will be introduced to the language and culture of the French-speaking world using the four skills: listening, speaking, reading and writing. The proficiency level target by the end of 1 year is called "NOVICE MID". That means students can understand and use a number of familiar words, phrases and occasional sentences to communicate on

very familiar topics. Students will be expected to communicate in class on a novice level through daily interactions in the target language.

Grade Level: All

Prerequisites: None

2023/2024 fee: \$10.00

French II (1.0 credit – 2 semesters)

Students will continue to develop their knowledge of the language and culture of the French-speaking world using the four skills: listening, speaking, reading and writing. The proficiency level target after 2 years is called “NOVICE HIGH”. That means students will understand and use short phrases and simple sentences to communicate on familiar topics. Students will be expected to communicate in class, on a novice level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: French I

French III (1.0 credit – 2 semesters)

Students will develop those skills learned in French I and II while continuing to explore French culture and language. The proficiency level target after 3 years is called “INTERMEDIATE LOW”. That means students will be able to communicate on familiar topics using simple sentences and series of simple sentences. Students will understand the main idea and some supporting details in authentic messages that they read, view or hear. Students will be expected to communicate in class, on an intermediate level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: French II

AP French (1.0 credit – 2 semesters)

This challenging course is an in-depth study of French language, literature and composition which will prepare the student to take the advanced placement exam in French. Topics covered in this class will include linguistic competence, with special emphasis on speaking, a brief overview of major French authors, and an in-depth study of writing skills with an emphasis on grammatical structure and self-analysis. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: All

AP exam fee: \$97.00

Prerequisites: French IV / recommended proficiency level of Intermediate Mid/High *2023/2024 fee: \$62.00*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Spanish I (1.0 credit – 2 semesters)

Students will be introduced to the language and culture of the Spanish-speaking world using the four skills: listening, speaking, reading and writing. The proficiency level target by the end of 1 year is called “NOVICE MID”. That means students can understand and use a number of familiar words, phrases and occasional sentences to communicate on very familiar topics. Students will be expected to communicate in class on a novice level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: None

Spanish II (1.0 credit – 2 semesters)

Students will continue to develop their knowledge of the language and culture of the Spanish-speaking world using the four skills: listening, speaking, reading and writing. The proficiency level target after 2 years is called “NOVICE HIGH”. That means students will understand and use short phrases and simple sentences to communicate on familiar topics. Students will be expected to communicate in class, on a novice level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: Spanish I

Spanish III (1.0 credit – 2 semesters)

Students will develop those skills learned in Spanish I and II while continuing to explore Hispanic culture and language. The proficiency level target after 3 years is called “INTERMEDIATE LOW”. That means students will be able to communicate on familiar topics using simple sentences and series of simple sentences. Students will understand the main idea and some supporting details in authentic messages that they read, view or hear. Students will be expected to communicate in class, on an intermediate level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: Spanish II

Spanish IV (1.0 credit – 2 semesters)

Students will develop those skills learned in Level I, II, III while continuing to explore target culture and language. The proficiency level target after 4 years is called “INTERMEDIATE MID”. That means students will be able to communicate on familiar topics using a series of connected sentences. Students will understand the main idea and key information in authentic messages that they read, view or hear. Students will be expected to communicate in class, at an intermediate level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: Spanish III

AP Spanish (1.0 credit – 2 semesters)

This challenging course is an in-depth study of Spanish language, literature and composition which will prepare the student to take the advanced placement exam in Spanish. Topics covered in this class will include linguistic competence, with special emphasis on speaking, a brief overview of major Spanish writers and an in-depth study of writing skills with an emphasis on grammatical structure and self-analysis. All students are expected to communicate in Spanish at all times. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: All

AP exam fee: \$97.00

Prerequisites: Spanish IV or Spanish III with teacher recommendation

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

American Sign Language I (1.0 credit – 2 semesters)

Students will be introduced to sign vocabulary and grammar while developing basic expressive and receptive skills taught through “real life” conversations without the use of spoken English. The proficiency level target after one year is called “NOVICE HIGH”. An intricate portion of this course is designated to exposure of Deaf culture. Enrolled students should have good study skills, the ability to receive and process information visually, good eye-hand coordination, and concentration skills. Students will also be expected to communicate, on a daily basis, through the use of American Sign Language rather than English. All public colleges and universities in the state of Ohio accept ASL as world language credit. For other colleges and universities outside of the Ohio system, please contact the institution to verify.

Grade level: 9-10

2023/2024 fee: \$10.00

Prerequisites: None

American Sign Language II (1.0 credit – 2 semesters)

Students will continue to develop their basic knowledge of the language by achieving a higher level of competence by increasing and refining receptive and expressive conversational signs with a focus on ASL grammar and reducing a reliance on spoken and written English. Students will be expected to communicate at the Intermediate Low proficiency level after two years.

Grade Level: 10-11

2023/2024 fee: \$10.00

Prerequisites: ASL I

Mandarin I (1.0 credit – 2 semesters)

Students will be introduced to the language and culture of the Mandarin-speaking world using the four skills: listening, speaking, reading and writing. The proficiency level target by the end of 1 year is called "NOVICE MID". That means students can understand and use a number of familiar words, phrases and occasional sentences to communicate on very familiar topics. Students will be expected to communicate in class on a novice level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: None

Mandarin II (1.0 credit – 2 semesters)

Students will continue to develop their knowledge of the language and culture of the Mandarin-speaking world using the four skills: listening, speaking, reading and writing. The proficiency level target after 2 years is called "NOVICE HIGH". That means students will understand and use short phrases and simple sentences to communicate on familiar topics. Students will be expected to communicate in class, on a novice level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: Mandarin I

Mandarin III (1.0 credit – 2 semesters)

Students will develop those skills learned in Mandarin I and II while continuing to explore Chinese culture and language. The proficiency level target after 3 years is called "INTERMEDIATE LOW". That means students will be able to communicate on familiar topics using simple sentences and series of simple sentences. Students will understand the main idea and some supporting details in authentic messages that they read, view or hear. Students will be expected to communicate in class, on an intermediate level through daily interactions in the target language.

Grade Level: All

2023/2024 fee: \$10.00

Prerequisites: Mandarin II

AP Mandarin (1.0 credit – 2 semesters)

Students will continue to develop listening, reading, speaking and writing skills through the use of advanced grammar and vocabulary. The course has a strong emphasis on language proficiency and communication. Students will be expected to understand and use the target language on a daily basis. Students will also enhance these skills through the use of authentic literature and cultural materials. There will be additional curriculum and rigor to prepare students for the current AP Mandarin exam. All students who are enrolled in an AP course will be registered to take the AP exam for that course and the cost of the exam will be included in their student fees. Please refer back to the AP portion of the Program of Studies for further information on page 11.

Grade Level: All

AP exam fee: \$97.00

Prerequisites: Mandarin III / recommended proficiency level of Intermediate Mid/High

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Non-Departmental Electives

Comet Connections (1.0 credit – 2 semesters)

This is a course designed for students to learn how to identify areas in their academic, executive functioning, and personal behavior realms in which they need to set, monitor their progress, and celebrate achievement of their goals and/or revision of goals. The course uses three major themes to help students learn these valuable skills:

Intrapersonal Intelligence (student-centered)

Interpersonal Intelligence (social/Human Interaction)

Identified Intelligences (Academic/Workplace Skills)

Prerequisite: Teacher Recommendation Required

College 101 (.5 credit - 1 semester)

Applying to college does not begin or end with the college application. Researching and selecting the best college takes time and preparation. College 101 is a semester-long BLENDED course designed for students who have the desire to attend a two or four-year college. Students will attend class once per week during 7th bell and participate in live seminars, virtual webinars, workshops, and open labs. This course provides students with the tools to research colleges and will help facilitate the application process. Included are opportunities to hear guest speakers addressing topics such as college testing, crafting college essays, understanding the value of recommendations, preparing for interviews with admissions officials, and the financial aid/scholarships process. Participation in outside activities will be required.

Experiential Learning – Internships (0.5 credit – 1 semester)

The internship provides students with the opportunity to apply concepts learned in the classroom to real-world experiences. Through direct observation and critical reflection, students gain an understanding of workplace expectations, professional work habits, and exposure to real-world problems and issues while exploring a career field of interest. Students should hold a current driver's license and provide their own transportation. Selection will be established by an application and interview process using criteria determined by the business partner.

Grade Level: All

Prerequisite: See above

New Course** The Science of Well-Being for Teens (0.5 credits- 1 semester)

This course teaches a set of scientifically validated strategies for well-being. Based upon the curriculum developed by Yale Professor Dr. Laurie Santos called *The Science of Well-Being for Teens*, we explore what psychological science teaches us about how people can live more personally satisfying lives, feel less stressed, and flourish more. We then have a chance to put these scientific findings into practice by building the sorts of evidence-based habits that support well-being.

Grade Level(s): All

Prerequisite: None

Great Oaks Programs

These are Great Oaks Programs offered on the MHS campus. These courses are taught by Great Oaks instructors and provide MHS students with career opportunities in the fields of education, engineering, and biomedical sciences.

Project Lead the Way Biomedical Sciences [Program Informational Video](#)

By immersing students in activities like practicing suturing and constructing body structures from clay, PLTW Biomedical Science empowers students to build knowledge and skills in biomedical science, as well as in-demand, transportable skills like problem solving, critical and creative thinking, communication, and collaboration.

Mason City Schools does not discriminate on the basis of race, color, national origin, sex, gender identity, disability and age in all programs, services, activities and employment.

Principles of the Biomedical Sciences (PBS) (1.0 credit – 2 semesters)

This is the first course in the four year Biomedical Science Program designed for students interested in pursuing a medical career. This course lays the scientific foundation for subsequent courses and provides an overview of the program. It is rigorous and fast paced. Students must be enrolled in Biology or have already taken Biology to take this course. Students must submit an application to be admitted to this course and are then selected through a lottery system.

Student work involves the study of human medicine, research processes, and introduction to bioinformatics. Students investigate the human body systems and various health conditions. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts including homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship structure to function are incorporated in the curriculum.

Grade Level: 9-10

Prerequisite: none, It is strongly recommended that students have complete physical science prior to this course.

***College Credit: Students who complete PBS with a grade of "B" or better and earn a score of 330 or higher on the PBS End-of-Course Exam, are eligible for 3 semester hours of college credit through The University of Missouri S&T.*

Human Body Systems (HBS) (1.0 credit – 2 semesters)

Students examine the interactions of human body systems as they explore, identify, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries.

Grade Level: 10-11

Prerequisite: Principles of Biomedical Sciences

***College Credit: Students who complete HBS with a grade of "B" or better and earn a score of 350 or higher on the HBS End-of-Course Exam, are eligible for 3 semester hours of college credit through The University of Missouri S&T.*

Medical Interventions (MI) (1.0 credit – 2 semesters)

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, diagnostics, and an introduction to bioinformatics. Lifestyle choices and preventative measures are emphasized throughout the course as well as the important role scientific thinking and engineering design play in the development of interventions of the future. This course contains many hands-on labs that are conducted in the actual field of science and research.

Grade Level: 11-12

Prerequisite: Principles of Biomedical Sciences and Human Body Systems (It is recommended that students take AP BIO concurrent with Medical Interventions)

***College Credit: Students who complete MI with a grade of "B" or better and earn a score of 6 or higher on the MI End-of-Course Exam, are eligible for 3 semester hours of college credit through The University of Missouri S&T*

Honors Biomedical Innovation (BI) (1.0 credit – 2 semesters)

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the Biomedical Sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent capstone project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community. Students are expected to work independently on all projects and apply prior knowledge from the biomedical sciences program.

Grade Level: 12

Prerequisite: Principles of biomedical science, Human body systems, & Medical interventions (Students are encouraged to take Statistics prior to or concurrent with BI)

***College Credit: Students who complete BI with a grade of "B" or better are eligible for 3 semester hours of college credit through The University of Missouri S&T*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Teacher Academy [Program Informational Video](#)

Teacher Academy is Ohio's Career Pathway Program designed especially for high school students who are interested in a career in education. The purpose of the program is to provide students with the opportunity to explore and gather information about the challenges and opportunities offered by a career in education. CCP and CTAG credit available for program completion.

Mason City Schools does not discriminate on the basis of race, color, national origin, sex, gender identity, disability and age in all programs, services, activities and employment.

Trending Topics in Schools and Society (1.0 credit – 2 semesters)



Students will explore what it means to serve and work with socially, culturally and linguistically diverse families and explore their relationships with communities, and schools. They will research trending and relevant issues in today's society and examine the impact on students, families and communities. Students will develop strategies to actively involve families and communities in child development and learning, determine community resources and services available to families and schools, and act as advocates for students and families.

Grade Level: 10-12

Prerequisite: none

Introduction to Teaching and Education (1.0 credit – 2 semesters)



Students will learn about the foundations of teaching and learning, and will be introduced to the various facets of what it means to be a teacher in today's world. They will have the opportunity to learn about psychology and child and adolescent development and develop learning experiences and curriculum to engage students of all ages. Students will visit local Universities and work with college professors to help guide them on their way to their own classrooms. Primarily, students will learn about the heart of teaching and what it means to be a teacher; this is a project based course with personalized learning at its core.

Grade Level: 11/12

Prerequisite: none

Classroom Culture and Communities Online/Blended (1.0 credit – 2 semesters as part of the Teacher Academy

Foundations course) 

This is a co-curricular course for those taking the Introduction to Teaching and Education course. This course focuses on building and sustaining a safe and equitable classroom culture and community where all students can thrive. Students will learn about student-centered instruction, equitable practice, and the art and science of teaching.

Prerequisite: Enrolled in Introduction to Teaching and Learning

Honors (CCP credit optional) Education Principles (1.0 credit- 2 semesters)



Students will dive into the day to day life of the teaching profession, and begin to take on the responsibilities of a teacher. Students will create a college level professional portfolio that will showcase their knowledge about education and what it means to teach. This course mirrors college-level coursework, and will prepare students for their own classrooms.

Grade Level: 12

Prerequisite: Introduction to Teaching and Education/Classroom Culture and Communities

***College Credit: Students who complete the course with C or better and a passing EOC score are eligible for 3 semester college credit hours through the state of Ohio.*

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Honors Education Internship (1.0 Credit- 2 semesters)

This is an experiential learning opportunity; seniors spend over 150 hours in the local school district working with teachers in their classrooms, gaining practical experience in the field of education. Students will choose the grade levels and subject areas they are interested in teaching, and can choose a different experience each quarter.

Grade Level: 12

Prerequisite: Students must be enrolled in Honors Education Principles and/or Introduction to Teaching and Education

When scheduling AP and/or Honors courses, students should take into consideration the rigor and amount of work required for each course and schedule responsibly. It is recommended that students take a study hall if taking AP and/or Honors courses.

Project Lead the Way Engineering [Program Informational Video](#)

Project Lead The Way (PLTW) and its rigorous curriculum makes science, technology, math, and engineering relevant for students. By engaging in hands-on, real-world projects, students begin to understand how the skills they are learning in the classroom can be applied in everyday life. All PLTW courses offer college credit and industry-recognized credentials available to students upon passage of the state required WebXAM.

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The PLTW Engineering Pathway will comprise 3 courses with the option to re-evaluate adding a fourth year course based upon student interest in the 24-25 and/or 25-26 school year.

Introduction to Engineering Design (IED) (1.0 credit - 2 semesters) [COURSE VIDEO](#)

Introduction to Engineering Design (IED) is a foundation course in the PLTW Engineering Program. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Students will develop skills in sketching, 3D modeling, creating technical drawings, ANSI dimensional standards.

*Grade Level: 9-12 **

Prerequisite: None

Principles of Engineering (1.0 credit - 2 semesters) [COURSE VIDEO](#)

This survey course of engineering exposes students to major concepts they will encounter in a postsecondary engineering course of study. Students explore how modern engineers help improve the world through diverse engineering fields, such as product design, mechanical design, infrastructure, and sustainability. Students learn and use some of the cutting edge tools engineers use in robotics, 3D modeling, programming, and prototyping.

Grade Level: 10-12

Prerequisite: None, Introduction to Engineering Design (IED)

Digital Electronics (offered beginning in 2025-2026 school year) (1.0 credit - 2 semesters)

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

Grade Level: 11-12

Prerequisite: Principles of Engineering

Glossary

ACT - an acronym for American College Testing. The ACT contains four multiple-choice tests—English, mathematics, reading, and science—and an optional writing test. These tests are designed to measure skills that are most important for success in postsecondary education and that are acquired in secondary education. The score range for each of the four multiple-choice tests is 1–36. The Composite score is the average of the four test scores rounded to the nearest whole number.

Academic Diploma with Honors - an academic diploma with honors is given to students who have fulfilled all graduation requirements and additional course and GPA requirements. Specific criterion can be found on page 9 of the program of studies or by clicking this link:

[Mason High School ODE Honors Diploma Options for Students](#)

AP - an acronym standing for “Advanced Placement”. The AP program is a set of college-level courses taught by your high school teachers. The course content and syllabus are written by the College Board to provide the academic rigor and challenge of an introductory college course. Many state universities accept a score of “3” or above out of a 5-point scale on the AP exam in May as evidence that the student has met the requirements for a college course. This allows students to earn college credits while still in high school. All students in the 2019-20 will be registered to take the AP exam for courses they are enrolled in.

Athletic Eligibility Requirements - established criteria that must be met to be eligible for athletic participation. If you are an athlete, you must be signed up for at least 5 (five) ½ credit classes each semester and carry the minimum GPA requirements as established by Mason City Schools.

College Credit Plus - College Credit Plus (CCP) became Ohio’s only dual enrollment program in the fall of 2015. The purpose of the program is to provide Ohio’s students with rigorous academic coursework beyond the high school classroom. Through the CCP program, students take college courses at an Institution of Higher Education (IHE) that meets their learning goals, needs, and where they are able to meet the IHE’s college readiness benchmarks. For information please use the link below:

[Mason College Credit Plus Handbook](#)

Corequisite - a course that can be taken concurrently with another course.

Credit - a “credit” is issued upon successful completion of each high school course; typically a semester course is worth a .5 credit (except for physical education) and a yearlong course is worth 1.0 credit.

Credit Flexibility - “Credit flex” shifts the focus from evaluating student learning based on “seat time” to assessing students’ demonstrated academic and skill level or performance. Students will have options to may earn credits through Credit Flex by taking online courses, by proving mastery of course content, or by crafting an individual plan for independent study, internships/field experiences, or educational travel. For more information please use the link below:

[Mason Credit Flexibility Handbook](#)

Cumulative G.P.A. - the grade average you earn over the four years of high school (an average of all semesters).

Elective - courses that students elect, or choose, to take because of an interest in the subject matter. These courses are NOT required for graduation, but the credits earned as a result of passing these courses may fulfill certain graduation requirements.

Freshman - a student who has *zero credits (or less than 4 credits)*.

GPA - an acronym for grade point average.

Honors Courses - a distinction applied to certain classes to distinguish them from standard course offerings. The difference between a regular class (such as English I) and the honors class (Honors English I) is not necessarily the amount of work, but the level of rigor.

Independent Study - a type of learning situation in which a student works one-on-one with a teacher to learn course context.

Junior - a student who has earned *at least 11 credits* total and/or is in their 3rd year of high school.

Naviance - a comprehensive website you and your student can use to make plans about colleges, careers, and much more. Naviance is how your student will apply to colleges, search for local scholarships, and explore other tools to help them explore post-secondary options.

NCAA - an acronym for National Collegiate Athletic Association. NCAA has ruled based on core courses, test scores and grade point average for those students interested in playing collegiate sports.

OELPA - an acronym for the Ohio English Language Proficiency Assessment. It is a test that checks students' English language abilities.

Prerequisite Class - a class that you must pass and earn credit so that a student can take the next level of the sequence of classes.

Required Class - a specific class that a student must pass and earn credit in order to graduate.

SAT - an acronym for Scholastic Aptitude Test is a standardized test for college admissions in the United States.

Semester - either of two 18 week periods in which the academic year is divided. A semester consists of two nine-week grading periods.

Senior - a student who has earned *at least 16.5 credits* total and/or in their 4th year of high school.

Sophomore - a student who has earned *at least 5 credits* total and/or in their 2nd year of high school.

Transcript - an official record of a student's educational history. All courses for which high school credits are earned are recorded on the official transcript.

MASON HIGH SCHOOL FEE SCHEDULE 2023-2024

COURSE TITLE		FEE AMOUNT	
APPLIED TECHNOLOGY DEPARTMENT			
Computer-Aided Design (CAD)		20.00	
Computer-Aided Manufacturing 1		20.00	
Computer-Aided Manufacturing 2		20.00	
Computer-Aided Manufacturing 3		20.00	
Advanced Auto CAD		20.00	
Engineering CAD		20.00	
Architecture CAD		20.00	
Maker 101		20.00	
Computer Programming I		30.00	
Honors Computer Programming II		30.00	
Honors Computer Programming III		30.00	
AP Computer Science		30.00	
AP Computer Science Principles		30.00	
Independent Study		15.00	
FINE ARTS DEPARTMENT			
Ceramics I, II		32.00	
Ceramics III: Wheel Throwing		52.00	
Sculpture		32.00	
Digital Image Design I		24.00	
Digital Image Design II: Digital Illustration		24.00	
Digital Image Design II: Communication Graphics		24.00	
Digital Image Design III: Animation		12.00	
Design Studio Internship A		18.00	
Design Studio Internship B		18.00	
Drawing and Painting I		40.00	
Drawing and Painting II		40.00	
Drawing and Painting III		40.00	
Drawing and Painting IV		40.00	

Photo I, II, III		40.00	
AP Art Studio		82.00	
Cartooning and Illustration		28.00	
Fashion Design and Construction		54.00	
Independent Study/Visual Arts		52.00	
BUSINESS DEPARTMENT			
Accounting		48.00	
Honors Financial Accounting Blended		48.00	
Computer Applications for College		44.00	
Professional Communications & Digital Literacy		37.00	
Honors Microsoft Office Certification		61.50	
Honors Microsoft Office Certification – Expert		61.50	
Innovation & Entrepreneurship		2.00	
Banking & Investments		14.00	
Financial Literacy		22.00	
Principles of Marketing		2.00	
Advanced Production Lab		10.00	
MATH DEPARTMENT			
Math Model & Reasoning (MMR)		8.00	
Statistics		5.00	
AP Statistics A		10.00	
PERFORMING ARTS			
Introduction to Theater		28.00	
Back Stage Theater		25.00	
Technical Theater & Practicum Design		25.00	
Film Making		15.00	
Una Voce White/Green		35.00	
Women's Choir		50.00	
Men's Choir		50.00	
Bel Canto		50.00	
Concert Choir		50.00	
Honors Concert Choir		50.00	

Pop Acapella Choir		100.00	
Concert Band Green/White/Silver		50.00	
Concert Winds		50.00	
Marching Band		950.00	
Symphonic Band		75.00	
Wind Symphony		75.00	
Honors Wind Symphony		75.00	
Winter Guard		750.00	
Winter Percussion		75.00	
Symphony Orchestra		30.00	
Honors Symphony Orchestra		30.00	
Philharmonic Orchestra		30.00	
AP Music Theory		55.00	
Freshman Orchestra Green/White/Silver		30.00	
Concert Orchestra Green/White		30.00	
SCIENCE			
Physical Science		6.00	
Biology		11.00	
Chemistry		12.00	
Physical Geology: Earth Materials		5.00	
Physical Geology: Earth Processes		5.00	
Forensics		7.00	
Science Behind Our Food		35.00	
Physics		7.00	
Honors Anatomy		30.00	
AP Physics 1		10.00	
AP Biology		40.00	
AP Chemistry		45.00	
AP Physics Mechanics		10.00	
AP Physics E & M		10.00	
Zoology		25.00	
Engineering 1		13.00	
Environmental Science		15.00	
Cold Case		10.00	

SOCIAL STUDIES			
AP Human Geography		22.00	
AP US History		22.00	
AP Psychology		20.00	
AP Macroeconomics		20.00	
AP Microeconomics		14.00	
AP Human Geography		22.00	
PHYSICAL EDUCATION/HEALTH			
Mind & Body Wellness		25.00	
Advanced Strength Training		25.00	
WORLD LANGUAGE			
French I, II, III, IV		10.00	
AP French		62.00	
ASL I, II		10.00	
German I, II, III		10.00	
Mandarin I, II, III		10.00	
Spanish I, II, III, IV		10.00	
LANGUAGE ARTS			
Words from the Wild		6.00	
AP Language and Composition		28.00	
GUIDANCE DEPARTMENT (All students)			
Naviance Fee (All grades)		5.50	
DISTRICT FEE (All students)			
Technology Fee		38.00	