

# HIGH SCHOOL COURSE CATALOG

## 2022-2023



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**NADABURG**  
Unified School District No. 81

Welcome to the Nadaburg Unified School District (NUSD), where our mission is to provide quality education every day to every student! The following course catalog and information is intended to help guide students and their families when deciding upon course choices. We take pride in our highly qualified and dedicated faculty and staff and seek to provide students with multiple opportunities to pursue their interests while working towards developing skills and knowledge necessary for meeting graduation requirements and their post-secondary goals. Within this course catalog you will find information regarding academic graduation requirements, programs and credits, as well as various course outlines and descriptions. We recognize the trust you invest with us when choosing NUSD to serve your student's educational needs and we look forward to celebrating your student's achievements and success as we embark on new school year.

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Katelynn Paine, Athletic Director



**Mountainside High School**

32919 Center Street

Wittmann, AZ 85361

(623)388-2111

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## GENERAL INFORMATION

Mountainside High School (MHS) is NUSD's premiere high school and is unique in that it connects innovation and tradition so that students can learn necessary skills and knowledge to excel in tomorrow's future, yet still have all of the amazing, positive, traditional high school athletic and extra-curricular opportunities that help define the high school experience. Currently, MHS is only accepting grades 9-11 for onsite learning for the 2022-2023 school year. Onsite students engage in a blended learning model that is composed of in-person instruction by high qualified MHS faculty, with the integrated use of technology and digital learning platforms. Through our partnership with Online Learning Service Providers (OLSP), some elective courses may be completed online with an online instructor, facilitated in-person by an MHS teacher. MHS also offers a full distance learning program in partnership through several of our OLSPs.

### ATTENDANCE

Regular school attendance is essential for success in school; therefore, absences shall be excused only for necessary and important reasons. Per A.R.S. 15-803B, students may be considered excessively absent when absent (excused or unexcused) 10% or more of the academic school year. Furthermore, a student may be deemed habitually truant when the student is truant at least 5 days within the academic school year. Absences effect a student's ability to be successful in all classes and may jeopardize a student's ability to earn credit in assigned courses (health conditions deemed as chronic by a certified health professional and properly documented and on file with the school are exempted).

### GRADING SYSTEM

NUSD supports state curriculum and standards in all courses. The purpose of the grading system is to inform and report upon a student's learning and achievement towards mastery of aligned course outcomes. Grades and credit are not to be awarded for any other purpose. Students may earn  $\frac{1}{2}$  a credit maximum for each semester course. In a full year course of study,  $\frac{1}{2}$  credit will be awarded at completion of the successful first semester and  $\frac{1}{2}$  credit will be awarded at the successful completion of the second semester. The grading system for all general education courses grades is weighted on a 4.0 GPA scale and is as follows for grades 9-12:

90% through 100%	=	A (4.0)
80% through 89%	=	B (3.0)
70% through 79%	=	C (2.0)
60% through 69%	=	D (1.0)
Below 60%	=	F

Within a semester, a student's course grade will be calculated using a weighted formula reflecting a student's quarterly performance combined with a summative assessment. The weighted formula used is as follows:

$$[(\text{Qtr.})45\%+(\text{Qtr.})45\%+(\text{Final Exam})10\%] = \text{Final Course Grade}$$

Each semester is comprised of two quarters and each course will provide a semester final exam, equal to 10% of the semester grade. Course grades are the final grade that will be recorded on students' legal transcripts.

## **FINAL EXAMS**

To ensure the validity of all final exams and testing security, early final exams will ***not be permitted***. Understanding that there may be extenuating circumstances preventing a student from completing his/her final exam on the assigned final exam day, students will be permitted to make up their exam provided the following is met:

1. Student's absence on assigned date of final exam is excused (students will not be permitted to make up a final exam if absence is unexcused or student is recorded as truant).
2. Student has informed teacher(s) of need to make up final exam and has arranged to take the exam within 8 school days of returning to school. It is the student's responsibility to contact his/her teachers regarding intent to make up exams. If student was absent for the second semester final exam, student may schedule with the administrative office to make up exams prior to school summer closure.

## **INCOMPLETES**

Teachers may assign students an Incomplete in lieu of a final course grade with administrative approval. Incompletes are assigned due to unforeseen extenuating circumstances, such as an illness, accident, or death in the family. Students will be afforded 8 school days upon return to the next semester to complete the assigned coursework and/or exams. Failure to complete the coursework with 8 days will result in the Incomplete converting to an F.

## **GRADE POINT AVERAGE**

A student's Grade Point Average (GPA) informs upon a student's academic achievement over the course of his/her high school career. A student's GPA is recorded and updated regularly on a student's transcript as he/she completes courses. An unweighted GPA reflects a student's academic progress using a 4.0 scale and does not factor in the level of difficulty of courses completed. A weighted GPA reflects a student's academic progress using a 5.0 scale to accommodate the level of academic rigor that an honors course presents. Students who complete honors courses may achieve a higher weighted GPA than a student who completes a course that is less difficult, even if the final letter grade is identical.

## **WEIGHTED COURSES**

Students have the option of enrolling in honors courses that are more rigorous and academically challenging. All honor courses are weighted and are designed to reward students who challenge themselves with more demanding coursework. Weighted courses use a 5.0 GPA scale and is used in computing students' class rank.

<b>GENERAL EDUCATION GRADES</b>	<b>POINTS</b>	<b>HONORS GRADES</b>	<b>POINTS</b>
A	4.0	A	5.0
B	3.0	B	4.0
C	2.0	C	3.0
D	1.0	D	2.0
F	0.0	F	0.0

## **ONLINE COURSES**

NUSD has partnered with several Online Learning Service Providers (OLSP) to bring a variety of core and elective courses to all high school students. Students who courses through these OLSP are taught fully by OLSPs' instructors. Students complete all OLSP courses via distance learning, however all OLSP courses are embedded within in-person students' daily course schedules. Students are assigned to an MHS faculty member during their assigned OLSP class period who provides students assistance as needed and tracks students' course progress.

Additionally, students enrolled in an online course are also assigned a learning success coach who serves as a liaison between student, MHS faculty member, and the OLSP instructor. Courses provided to students enrolled in all distance learning courses are done so in OLSP courses, also taught by OLSP teachers.

## **EXCEPTIONAL STUDENT SERVICES AND EDUCATION**

Services for students eligible for special education are determined by each student's individualized education program team. The Individualized Education Program (IEP) considers the unique strengths, needs, and preferences of each student, therefore, services range across a continuum of placement options as directed by federal and state statute and regulations. Course enrollment for special education classes is arranged through student's IEP case manager.

## **HONORS COURSES**

Students are encouraged to participate in honors courses as appropriate. Please see your counselor for enrollment opportunities.

## **CONCURRENT COLLEGE COURSES**

Students have the opportunity to challenge themselves even further by enrolling in concurrent college courses. Concurrent college course enrollment are college courses completed while a student is enrolled at MHS. In partnership with ASU PD, students have the option of enrolling

in a concurrent college course through Arizona State University (ASU and/or ASU PD fees may apply). Acceptance of college courses toward high school graduation requirements may be considered if the course is of a higher level than the course taught at the high school. The district determines if the course subject matter of the college course is appropriate to meet specific high school requirements. Prior approval is required by MHS. See your counselor prior to enrolling in a concurrent college course to ensure credit transfer.

### **EARLY GRADUATES**

A student intending to graduate in fewer than four years must first notify MHS administration by October 1st of the year in which he/she plans to graduate. The student is encouraged to apply in the spring of his/her sophomore year. The transcript and schedule of classes will be evaluated to determine whether the student can meet the requirements for graduation. Please see your counselor if interested in early graduation.

### **LATE GRADUATES**

Students who fail to complete graduation requirements by their anticipated graduation date will not be permitted to participate in commencement exercises (all students participating must have met all requirements prior to commencement date). Students failing to complete graduation requirements by their commencement date will be provided opportunities for credit recovery. Diplomas will only be issued upon verified completion of all required course credits.

### **ASSESSMENTS**

Benchmark testing is an important tool to measure students' achievement in a variety of disciplines. Throughout the school year, students may be required to take district and state level achievement exams. The ACT Aspire is a statewide achievement test that all 9<sup>th</sup> grade students will take in English Language Arts and Mathematics. The AzSCI exam is a statewide achievement test that all 11<sup>th</sup> grade students will take in science. All 11<sup>th</sup> grade students will take the ACT. Additionally, all students are required to take and pass the Arizona Civics test to meet graduation requirements, per the American Civics Act (HB 2064). Students will be provided multiple opportunities to take and pass this exam.

### **EDUCATION AND CAREER ACTION PLAN**

Education and Career Action Plans (ECAP)s reflect a student's current plan of coursework, career aspirations, and extended learning opportunities with the purpose of developing the student's individual academic and career goals, as well as postsecondary plans. Students have the opportunity to meet with their counselor to develop their ECAPs, gain assistance in planning and evaluating students' current program of study, and explore career goals and postsecondary education goals. Additionally, the ECAP process assures proper planning so that all students have the opportunity to meet graduation requirements.

## HIGH SCHOOL GRADUATION REQUIREMENTS AND IN-STATE UNIVERSITY COMPETENCIES

SUBJECT	HIGH SCHOOL DIPLOMA REQUIREMENTS	MINIMUM IN-STATE UNIVERSITY COMPETENCIES
<b>English</b>	<b>4 Credits</b>	<b>4 Credits</b> (Composition or Literature Based)
<b>Math</b>	<b>4 Credits</b> <ul style="list-style-type: none"> <li>• 1 Credit - Algebra I</li> <li>• 1 Credit - Geometry</li> <li>• 1 Credit - Algebra II</li> <li>• 1 Credit - includes significant mathematics content as determined by the local school district governing board or charter school (pre-calc, calculus, or statistics)</li> </ul> <p>These three credits shall be taken <i>beginning with the 9th grade</i> unless a student meets these requirements prior to the 9th grade.</p>	<b>4 Credits</b> <ul style="list-style-type: none"> <li>• 1 Credit - Algebra I</li> <li>• 1 Credit - Geometry</li> <li>• 1 Credit - Algebra II</li> <li>• 1 Credit - Advanced math for which Algebra II is a prerequisite</li> </ul>
<b>Science</b>	<b>3 Credits</b> Three credits of science in preparation for proficiency at the high school level on the statewide assessment.	<b>3 Lab Credits</b> <ul style="list-style-type: none"> <li>• 1 Credit from any 3 of the following: Biology, Chemistry, Physics, Earth Science, or Integrated Lab Science</li> </ul>
<b>World Language</b>	<b>Not required for diploma</b>	<b>2 Credits</b> (Must be of the same foreign language)
<b>Fine Art or CTE</b>	<b>1 Credit</b>	<b>1 Credit</b>
<b>History &amp; Social Science</b>	<b>3 Credits</b> <ul style="list-style-type: none"> <li>• 1 Credit - American History</li> <li>• 1 Credit - World History/Geography</li> <li>• .5 Credit - Government</li> <li>• .5 Credit - Economics</li> </ul>	<b>2 Credits</b> <ul style="list-style-type: none"> <li>• 1 Credit - American History</li> <li>• 1 Credit from any of the following: European History, World History, Economics, Sociology, Geography, Government, Psychology, or Anthropology</li> </ul>
<b>Electives</b>	<b>7 Credits</b>	<b>No Specific Requirements; must have a H.S. diploma for admission</b>
<b>Total Credits</b>	<b>22 Credits</b>	<b>16 Credits</b>
	<b>Assessment Requirements:</b> All high school students are required to pass (60/100) a civics test to graduate.	GPA for admission to an in-state university is determined by grades in these 16 core classes. An overall unweighted GPA of 3.0 is required and grades in each subject area must average 2.0 or higher for unconditional admission.



## **SCHEDULING PROCEDURES**

Careful selection of courses is strongly encouraged as selections play an important role in students' long-term goals in terms of meeting graduation requirements, university admission eligibility, as well as career and postsecondary aspirations. Current students will register for classes through the counseling department in the spring semester of their current school year. Incoming students from district schools will register in the spring semester through their K-8 school counselor. Incoming students from out-of-district may complete their open enrollment at MHS and meet with an MHS counselor for determining course selection.

## **SCHEDULING REQUIREMENTS**

Students in grades 9-11 must enroll in a minimum of 6 credit bearing classes during the academic school year (6 classes at  $\frac{1}{2}$  a credit each, each semester for a total of 3). Students in grade 12 are encouraged to enroll in 6 credit bearing classes, however eligible senior students must enroll in a minimum of 4 credit bearing classes. Only students in grade 12 will be allowed a reduced course schedule. Junior students with extenuating circumstances may be considered for a reduced schedule, however must have administrative approval. Minimum course loads are required to meet eligibility requirements in AIA events. Please consult with the Athletic Director for details.

## **1:1 LAPTOP DEVICES, RESOURCES, AND SUPPLIES**

High school walkthrough will be conducted during the summer prior to the start of school. Information regarding walkthrough will be made available via the summer mailer and school website. Each Student will be issued a personal laptop for use to complete assignments and coursework. Parents and students will be required to sign out a laptop and complete the *Student Laptop Loan Agreement and Expectations for Responsible Laptop Use*. Digital resources for some courses will be provided free of charge to students and facilitated by students' teachers. High school students may be assessed reasonable fees for select courses and/or for optional services, equipment, and materials offered to students beyond those required to successfully complete the basic requirements. Fees for classes will not be refunded unless the student drops the class within the first 8 days of the semester. Any student or family unable to pay fees due to economic hardship should contact the school's principal.

## ENGLISH LANGUAGE ARTS

### **English 1-2**

Composition units focus on writing explanatory, narrative, and argument essays, summaries of an informational text, and research. Students learn to apply correct language conventions in their writing. Students are taught to read closely and analyze literary and informational texts. In addition, high school study skills, oral presentation skills, and test taking strategies are taught. All skills taught align with the state standards. Students will incorporate technology in their assignments.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

### **English 1-2 Honors**

This advanced level course is designed to challenge academically those students who are able to work beyond the curriculum of regular English 1-2. This course includes a study of advanced grammar, basic composition, and a survey of world literature. Students will incorporate technology in their assignments. All skills taught align with the state standards. *This course may require summer reading and/or projects.*

*Credit Amount: 1.0*

*Prerequisite: Teacher Recommendation*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09*

### **English 3-4**

The course content continues to build on skills learned in English 1-2, including idea development, drafting, editing, revising, research, vocabulary, grammar, and usage skills. Students read and analyze multicultural literature from the following genres; short story, novel, drama, poetry, and non-fiction. All skills taught align with the state standards. Students will incorporate technology in their assignments.

*Credit Amount: 1.0*

*Prerequisite: English 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 10, 11, 12*

### **English 3-4 Honors**

In addition to refining students' skills in composition, oral expression and literary analysis, this yearlong course will also explore such accelerated activities as debate, symposium, oral interpretation, techniques of persuasion, and application of mythology. Composition work will consist of advanced research with emphasis on various types of expository and creative writing. All skills taught align with the state standards. Students will incorporate technology in their assignments. *This course may require summer reading and/or projects.*

*Credit Amount: 1.0*

*Prerequisite: English 1-2/Teacher Recommendation*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 10*

## English 5-6

This course has two main objectives. The first is to help build cultural capital, while students take a historical survey through the American literature timeline. Students will then trace a path from the icons of the Colonial era, through the tumultuous 1800s, and stop at today's Post-Modern landscape. The second objective is to help build global citizenship, which will ask students to research, critically think, and write about the issues that are most crucial, most vital, and most affecting life around the world. Together, these objectives work to build upon the skills of the past with exploring the potential for a brighter future. ***This course may be taken for honors credit upon teacher recommendation.***

*Credit Amount: 1.0*

*Prerequisite: English 3-4*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 11, 12*

## English 7-8

This course provides learners opportunities to make critical and informed responses to texts which are wide-ranging in their form, style, and context. Students will experience British literature that introduces them to the cultural and societal contexts of various literary pieces. Advanced writing assignments are required, including a research paper based on student interests. This course also provides learners opportunities to make critical and informed responses to texts, which are wide-ranging in their form, style, and context. Students will also produce their own imaginative writing and will demonstrate their ability to produce writing for given audiences. ***This course may be taken for honors credit upon teacher recommendation.***

*Credit Amount: 1.0*

*Prerequisite: English 5-6*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 12*

## Basic Reading 1-2

This course is designed for students who are not recommended for the general curriculum Reading Program and have a current Individual Education Plan (IEP). This course emphasizes the acquisition of reading skills. This course does not fulfill English requirements for graduation. Elective Credit Only

*Credit Amount: 1.0*

*Prerequisite: Teacher Recommendation/IEP*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: Yes*

*Grade Level: 09, 10, 11, 12*

## Basic Reading 3-4

The Basic Reading 3-4 course is a continuation of Basic Reading 1-2 and can be taken in conjunction with other English courses. Emphasis is placed on vocabulary development, critical thinking skills, reading flexibility, study and test taking skills, survival reading, and career planning. In addition, students will receive help in reading materials from other subject areas and in meeting reading proficiency. Based upon initial assessment to improve reading ability as indicated through the objectives in the individual Education Plan (IEP). This course does not fulfill English requirements for graduation. Elective Credit Only

*Credit Amount: 1.0*

*Prerequisite: Teacher Recommendation/IEP*

*Course Fee: None*

*Repeatable for Credit: Yes*

*Length: 2 SEM COURSE/1 YEAR*

*Grade Level: 10, 11, 12*

### **Writing Lab**

Focus on one or two of the Six Traits of writing: Ideas, Organization, Voice, Sentence Structure, Word Choice and Conventions. Revise and edit writing to improve meaning and focus by writing by adding, deleting, consolidating, clarifying and rearranging words and sentences. Revise to improve the organization and consistency of ideas. Edit writing for spelling, grammar, capitalization, punctuation and sentence structure. Writing Applications Students will: Write multi-paragraph narrative, expository and persuasive compositions and respond to literature. This course does not fulfill English requirements for graduation. Elective Credit Only.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: Yes*

*Grade Level: 09, 10, 11, 12*

## MATHEMATICS

### **Math Foundations**

Students will focus on strengthening problem-solving and computational skills that will be applied to all levels of mathematics. Students study the practical application of mathematics using problem-solving strategies and math skills as related to everyday consumer situations. Included are real world applications involving fractions, decimals, percent, tables, graphs, probability and statistics in the solution of problems related to topics such as personal finance, interest, taxes, and investments. Elective Credit Only.

*Credit Amount: 1.0*

*Prerequisite: Teacher Recommendation*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09*

### **Math Lab**

This is a support course designed to meet the needs of students whose mathematics achievement is below the proficient level. This course directly addresses students' needs through the use of small group instruction, computer aided instruction, review of basic arithmetic and pre-algebra concepts and procedures, supplemental activities that reinforce concepts and objectives presented in the core mathematics course. The course is designed to supplement Algebra and Geometry and serves as an elective credit.

*Credit Amount: 1.0*

*Prerequisite: Teacher Recommendation*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: YES*

*Grade Level: 10, 11*

### **Basic Arithmetic**

Enrollment in this course is determined by the needs addressed in the student's Individual Education Plan (IEP). This course is designed to prepare students by teaching and/or reviewing math concepts: basic number concepts, addition, subtraction, multiplication and division of whole numbers, decimals and fractions, percent, and measurement.

*Credit Amount: 1.0*  
*Prerequisite: Teacher Recommendation/IEP*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 09*

### **Integrated Math 1-2**

The program is designed to use patterns, modeling, and conjectures to build student understanding and competency in mathematics. Students will be expected to learn through collaboration, collection of data, experimentation, and conjectures. The course content is designed to address the requirements of the State of Arizona as outlined in the State Mathematics Standard and as assessed by the state testing program.

*Credit Amount: 1.0*  
*Prerequisite: None*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 09*

### **Algebra 1-2**

The purpose of this course is to enable students to engage in logical exploration and thorough mathematical investigations. Students will examine the structure of real numbers, in algebraic expressions, equations and inequalities, and in the classes of functions. Students will learn algebraic concepts through patterns and events that are best described and represented by linear equations; inequalities; functions and systems; quadratic equations and functions; polynomial expressions and equations; and data analysis and probability. In the process of exploring these mathematical relationships, the course encourages students to rely upon problem-solving strategies and to use precise mathematical language to communicate ideas and interpret their solutions.

*Credit Amount: 1.0*  
*Prerequisite: None*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: NO*  
*Grade Level: 09, 10, 11, 12*

### **Algebra 1-2 Honors**

This course covers all topics in Algebra 1-2 in more depth and with greater rigor. Students should be proficient in operations with rational numbers, properties of equality, and single transformation equations.

*Credit Amount: 1.0*  
*Prerequisite: Teacher Recommendation*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: NO*  
*Grade Level: 09*

### **Geometry 1-2**

This course introduces the student to the deductive method of proof with the use of points, lines, and planes. Solid geometry is integrated with plane geometry to lead the student to consideration of two- and three- dimensional figures and to develop the ability to visualize space relationships. Students will investigate axioms and postulates; problems and relationships that lead to theorems; the properties of plane figures from line segments to rays, angles, polygons, and circles; the properties of solids; perimeter, area, and volume; and similarity, congruence, and symmetry.

*Credit Amount: 1.0*  
*Prerequisite: Algebra 1-2*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: NO*  
*Grade Level: 09, 10, 11, 12*

### **Geometry 1-2 Honors**

This course introduces the student to the deductive method of proof with the use of points, lines, and planes. Solid geometry is integrated with plane geometry to lead the student to consideration of two- and three- dimensional figures and to develop the ability to visualize space relationships. Students will investigate axioms and postulates; problems and relationships that lead to theorems; the properties of plane figures from line segments to rays, angles, polygons, and circles; the properties of solids; perimeter, area, and volume; and similarity, congruence, and symmetry. Other geometries and methods of proof will also be explored. Right triangle trigonometry will be included in this course.

*Credit Amount: 1.0*  
*Prerequisite: Algebra 1-2/Teacher Recommendation*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: NO*  
*Grade Level: 09, 10*

### **Algebra 3-4**

This course includes a study of solution techniques for polynomial equations, properties of functions, logarithms and exponents, coordinate geometry, complex numbers, elementary conic sections, matrices, arithmetic and geometric sequences, and an introduction of trigonometry and its applications. Technology will play a part in this course, especially hand-held graphing calculators.

*Credit Amount: 1.0*  
*Prerequisite: Geometry 1-2*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 10, 11, 12*

### **Honors Algebra 3-4**

This honors course includes a rigorous study of solution techniques for polynomial equations, properties of functions, logarithms and exponents, coordinate geometry, complex numbers, conic sections, matrices, arithmetic and geometric sequences, and a study of trigonometry and its applications. Technology will play a large part in this course, especially hand-held graphing calculators. This honors course is intended for the student of high mathematical ability and interest.

*Credit Amount: 1.0*  
*Prerequisite: Geometry 1-2/Teacher Recommendation*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 10, 11*

### **Intermediate Algebra 3-4**

This course includes a study of techniques used to solve polynomial equations, properties of functions, solving inequalities, systems of equations and inequalities, rational exponents and coordinate geometry. The course content is designed to address the requirements of the State of Arizona as outlined in the State Mathematics Standard and as assessed by the state testing program.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: Geometry 1-2*  
*Length: 2 SEM COURSE/1 YEAR*

*Repeatable for Credit: No*  
*Grade Level: 11, 12*

### **Pre-Calculus 1-2**

Topics covered include angle measure, relations and graphs of trigonometric functions, coordinate and polar trigonometry, reduction formulae, fundamental triangle solutions and solutions of trigonometric equations, complex numbers, DeMoivres theorem, real number line, the plane functions, conics, polynomial functions, exponential and logarithmic functions, polar and parametric functions, sequences and series, limits and rates of change. Technology will play a large part in this course, especially hand-held graphing calculators. This college preparatory math course is designed for students who seek to meet admission requirements for state universities.

*Credit Amount: 1.0*  
*Prerequisite: Algebra 3-4*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11, 12*

### **Honors Pre-Calculus 1-2**

This honors course includes a rigorous study of angle measure, relations and graphs of trigonometric functions, coordinate and polar trigonometry, reduction formulae, fundamental triangle solutions and solutions of trigonometric equations, complex numbers, DeMoivres theorem, real number line, the plane functions, conics, polynomial functions, sequences and series, limits and rate of change, polar and parametric functions, exponential and logarithmic functions. Technology will play a large part in this course, especially hand-held graphing calculators. This honors course is intended for the student of high mathematical ability and interest. This college preparatory math course is designed for students who seek to meet admission requirements for state universities

*Credit Amount: 1.0*  
*Prerequisite: Algebra 3-4/Teacher Recommendation*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11, 12*

### **Applied Math 1-2**

Students study the practical application of mathematics using problem-solving strategies and math skills as related to everyday consumer situations. Included are real world applications involving fractions, decimals, percent's, tables, graphs, probability and statistics in the solution of problems related to topics such as personal finance, interest, taxes, and investments. The course content is designed to address the requirements of the State of Arizona as outlined in the State Mathematics Standard and as assessed by the state testing program.

*Credit Amount: 1.0*  
*Prerequisite: Geometry 1-2*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 12*

### **Calculus Honors**

Calculus plays an important role in science, medicine, sociology and economics. The objective of this course is to enable students to not just recognize concepts, but to learn to work with them in ways that will be useful in their future careers and life. The course uses a logical progression from fundamental to advanced concepts so that students can make more connections between theories and applications. Topics include limits, continuity, derivatives, related rates, optimization, integration, area under the curve, volumes of revolution, and

centers of mass.

*Credit Amount: 1.0*

*Prerequisite: Algebra 3-4/Teacher Recommendation*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 12*

## SCIENCE

### **Integrated Science**

Integrated Science is a physical laboratory science course that focuses on the topics of the Scientific Process, Physics, Chemistry and Earth Science through the use of inquiry and mathematics. Students will obtain, evaluate, and communicate scientific information. This year-long course will allow students to read scientific texts, use mathematical practices, conduct numerous hands-on laboratory investigations, collect analyze and interpret data and communicate their scientific knowledge through writing and speaking. This course will lay a solid foundation for students to pursue multiple avenues of science in high school and beyond.

*Credit Amount: 1.0*

*Prerequisite: Teacher Recommendation*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 09*

### **Biology 1-2**

This is an introductory course in biological sciences. The central theme of this course is scientific investigation and the concepts of change and diversity. Students will acquire a knowledge base in living systems, genetics, ecology, evolution and classification. The Biology curriculum is aligned with the Arizona State Standards.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 09, 10, 11, 12*

### **Biology 1-2 Honors**

This course is designed as an exploratory biology course with the express purpose of exposing outstanding students to scientific concepts and principles in the area of living organisms. This course carries a lab science credit. An in-depth study of traditional biology topics will be supplemented with research projects and open-ended labs.

*Credit Amount: 1.0*

*Prerequisite: Teacher Recommendation*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 09*

### **Earth Science**

This course covers aspects of earth and space. Earth's geosphere, hydrosphere, and atmosphere are all linked together, and each sphere is studied to understand the Earth. The finishing touch of this course is to study astronomy to understand the Earth's relationship to the universe.



*Credit Amount: 1.0*  
*Prerequisite: None*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: NO*  
*Grade Level: 10, 11, 12*

### **Introduction to Chemistry 1-2**

This course explores the fundamentals of chemistry without heavy emphasis on mathematics. It emphasizes proper procedures in laboratory and lab write-ups. It is recommended for those students who plan to enter junior colleges and/or who plan to pursue non-science careers at the college level. Students may be required to keep a lab notebook and produce a research paper.

*Credit Amount: 1.0*  
*Prerequisite: Biology 1-2*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11*

### **Chemistry 1-2**

This course is for students who plan to attend college. Students may be required to keep a lab notebook and may be required to do several projects as part of the class. A minimum of one day per week will be devoted to laboratory studies. These experiments will introduce the principles of chemistry.

*Credit Amount: 1.0*  
*Prerequisite: Biology 1-2*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11, 12*

### **Honors Chemistry 1-2**

This course is designed for the academically motivated student. Experiments are used to introduce the principles of chemistry. Students may be expected to keep a lab notebook and/or produce projects or research papers.

*Credit Amount: 1.0*  
*Prerequisite: Biology 1-2/ Teacher Recommendation*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11*

### **Physics 1-2**

This course focuses on the physical nature of our world. The class involves frequent labs with appropriate reports. Topics may include mechanics, electricity and magnetism, wave propagation, energy and modern physics.

*Credit Amount: 1.0*  
*Prerequisite: Chemistry 1-2 & Algebra 3-4*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 12*

### **Honors Physics 1-2**

This course is designed for the academically motivated student. This advanced course involves a more rigorous application of mathematics to mechanics, electricity and magnetism, wave propagation, energy and modern physics. Research projects may be required.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: Chemistry 1-2 & Algebra 3-4/Teacher Recommendation*  
*Length: 2 SEM COURSE/1 YEAR*

*Repeatable for Credit: No*  
*Grade Level: 12*

### **Anatomy and Physiology 1-2 Elective**

This course is for the student interested in the areas of science, nursing, pre-med, health or physical education. An in-depth study of all human systems, structure and functions, is included. Major components of this class are dissection lab work and writing in depth lab reports. A thorough study of cell structure and function are incorporated in the course.

*Credit Amount: 1.0*  
*Prerequisite: Biology 1-2*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11, 12*

### **Honors Anatomy and Physiology 1-2**

Honors anatomy and physiology is an intensive study of the structure and function of the human body. This will include a review of introductory biology, cytology, histology, integumentary, skeletal, muscular, nervous, circulatory, and digestive systems and the special senses.

*Credit Amount: 1.0*  
*Prerequisite: Biology 1-2/ Teacher Recommendation*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11, 12*

### **Environmental Science 1-2**

Discuss the environmental challenges that impact our future, such as land use, pollution, climate change, and loss of biodiversity. This course is centered around achieving global sustainability to meet the needs of a growing human population, while also maintaining natural resources and protecting Earth's various systems. The short-and long-term consequences of our actions to human health and the environment are also a course focus. This course highlights the research and field experiences of professors, scientists, conservationists, lawyers, and more, while sharing practical and sensible strategies for preserving the delicate balance between land, ocean, air, and life. In addition, this course creates a call to action for students by teaching them how to protect the world's biodiversity and resources by adjusting the way they live, work, play, and govern in the future.

*Credit Amount: 1.0*  
*Prerequisite: Biology 1-2*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11, 12*

## SOCIAL STUDIES

### **Geography 1-2**

The study of the physical features of the earth and its atmosphere, and of human activity as it affects and is affected by these, including the distribution of populations and resources, land use, and industries. Elective Credit Only.

*Credit Amount: 1.0*  
*Prerequisite: None*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 09, 10, 11, 12*

## **Honors Geography 1-2**

Content includes an understanding of the Earth's physical and human systems, the importance of regions and the impact of culture and population changes. Students will learn how to collect, organize and interpret spatial data, to construct and interpret maps, mental maps and geographic models to solve problems, and to use geospatial technologies. Elective Credit Only.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

## **World History 1-2**

This course is designed as a comprehensive study of world history topics. Students will use inquiry to explore a variety of people, events, and movements in world history. Students will analyze the impact of social, geographic, political, and economic influences on historical events. The course includes a balanced approach to the Eastern and Western Hemispheres including a study of the peoples of Africa, the Americas, Asia, and Europe. To allow for depth of content and connection to current issues and events, the course begins in the 15th century and ends with contemporary global issues.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 10, 11, 12*

## **United States History**

This course is designed as a comprehensive study of United States history. Students will use inquiry to explore a variety of peoples, events, and movements in United States history. Students will analyze the evolution of American democratic principles, changes in society, economic and geographical development, and the emergence of the United States as a global power. To allow for depth of content and connection to current issues and events, the course will begin with the American Revolution and end with contemporary United States.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 11, 12*

## **Government**

This course is designed for students to explore the roles and responsibilities of citizenship. In order to become engaged citizens, students will use inquiry to explore a knowledge of history, principles, and foundations of our republic. Students will analyze the foundations of government, structures and function of government, institutions of national government, law making processes, media, interest groups, political parties, media literacy, citizenship, civil liberties, and civil rights.

*Credit Amount: 0.5*

*Prerequisite: None*

*Length: 1 SEM COURSE*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 12*

## **Economics**

This course is designed for students to explore economic decision making. Students will use inquiry to explore how people, institutions, and societies choose to use resources to meet their wants and needs. Students will analyze the economic reasoning process to make informed decisions in a wide variety of contexts including personal finance, economic systems, exchange and markets, the national economy and the global economy. The basis of the course is financial literacy and personal financial management.

*Credit Amount: 0.5*  
*Prerequisite: None*  
*Length: 1 SEM COURSE*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 12*

## **Student Government**

This course is designed to teach students leadership skills that are essential to their future. The students will practice communication skills with peers, adults, businesses and the community at large. They will develop organization, management and decision-making skills, while setting goals. Through small group and hands on interactions, they will facilitate successful cooperative group dynamics, roles and conflict resolution strategies. The students will learn and implement proper parliamentary procedures are observed in federal and local governments. They will develop a working calendar of school events and community service projects, focusing on the improvement of campus life and the collaborative relationships with their teachers and administrators. The students will leave the Student Government course with the knowledge and practice necessary to become future leaders in their community. Elective Credit Only.

*Credit Amount: 1.0*  
*Prerequisite: By Application and Teacher Recommendation*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: YES*  
*Grade Level: 09, 10, 11, 12*

## **Psychology**

Introduction to psychology gives students a scientific basis for understanding behavior and to have more insight into themselves and their environment through learning to better adapt, cope, react, set goals and make decisions. A sampling of areas of exploration would include: learning, motivation, creativity, emotion, personality, behavioral conditioning and mental illness.

*Credit Amount: 0.5*  
*Prerequisite: None*  
*Length: 1 SEM COURSE*

*Course Fee: None*  
*Repeatable for Credit: NO*  
*Grade Level: 09, 10, 11, 12*

## **Sociology**

Sociology is the social study of man, culture and society, cultural and social change and ethnic groups. It will encourage students to discover the basic structure of human society, identify the main forces that hold groups together or weaken them, and learn the conditions that transform social life.

*Credit Amount: 0.5*  
*Prerequisite: None*  
*Length: 1 SEM COURSE*

*Course Fee: None*  
*Repeatable for Credit: NO*  
*Grade Level: 09, 10, 11, 12*

## WORLD LANGUAGES

### **American Sign Language 1-2**

This course will jump start your American Sign Language journey by learning the basics of this visual language and exploring the Deaf culture. Get ready to broaden your concept of communication through connections and comparisons to your own culture and community.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

### **American Sign Language 3-4**

This course will jump start your American Sign Language journey by learning the basics of this visual language and exploring the Deaf culture. Get ready to broaden your concept of communication through connections and comparisons to your own culture and community.

*Credit Amount: 1.0*

*Prerequisite: American Sign Language 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 10, 11, 12*

### **Spanish 1-2**

This introductory course covers the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as students build grammar and vocabulary of the language. Students will also learn about the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 09, 10, 11, 12*

### **Spanish 3-4**

This course continues to build students grammar, vocabulary, and speaking skills as they explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Students will continue to explore the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: Spanish 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 10, 11, 12*

### **Spanish 3-4 Honors**

This course continues to build students grammar, vocabulary, and speaking skills as they explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Students will continue to explore the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: Spanish 1-2/Teacher Recommendation*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 10, 11, 12*

### **Spanish 5-6**

In this course students will reach a higher level of grammar and vocabulary mastery while enriching their speaking skills, they will study tourism and recreation, professions and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Students will continue to explore the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: Spanish 3-4*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 11, 12*

### **Spanish For Native Speakers**

This is a course designed for fluent speakers at the beginning level. Students will read and discuss various forms of literature, geography, history and culture from many different Spanish-speaking countries. This course offers the opportunity for student refinement of writing, comprehension and speaking skills. Students will be expected to possess native language fluency.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

### **French 1-2**

In this course students will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. Students will also learn about the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 09, 10, 11, 11*

### **French 3-4**

In this course students will continue to build their grammar, vocabulary, and speaking skills as they explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Students will continue to explore the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: French 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 10, 11, 12*

### **French 5-6 Honors**

Students will reach a higher level of grammar and vocabulary mastery while enriching their speaking skills. They will study tourism and recreation, professions and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Students will continue to explore the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: French 3-4*

*Course Fee: None*

*Repeatable for Credit: NO*

*Length: 2 SEM COURSE/1 YEAR*

*Grade Level: 11, 12*

### **German 1-2**

In this course students will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. Students will also learn about the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 09, 10, 11, 12*

### **German 3-4**

In this course students will continue to build their grammar, vocabulary, and speaking skills as they explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Students will continue to explore the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: German 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 10, 11, 12*

### **German 5-6**

Students will reach a higher level of grammar and vocabulary mastery while enriching their speaking skills. They will study tourism and recreation, professions and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Students will continue to explore the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: German 3-4*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 11, 12*

### **Mandarin 1-2**

In this course students will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. Students will also learn about the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 09, 10, 11, 12*

### **Mandarin 3-4**

In this course students will continue to build their grammar, vocabulary, and speaking skills as they explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Students will continue to explore the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: Mandarin 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 10, 11, 12*

## **Mandarin 5-6**

Students will reach a higher level of grammar and vocabulary mastery while enriching their speaking skills. They will study tourism and recreation, professions and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Students will continue to explore the culture of the language speaking countries.

*Credit Amount: 1.0*

*Prerequisite: Mandarin 3-4*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: NO*

*Grade Level: 11, 12*

## **CAREER AND TECHNICAL EDUCATION**

*NUSD and MHS, in partnership with West-MEC, provides a multitude of Career and Technical Education (CTE) courses options for students. Some courses may be taken on campus, while others require travel to a West-MEC campus (transportation may be provided by NUSD). Please note that West-MEC courses require application to their programs, generally beginning junior year of studies, may require prerequisite course completion, may require prerequisite age for participation, and are generally one, or two-year programs. Participation in West-MEC courses may require additional costs and may limit course options on MHS campus due to course meeting times. West-MEC courses may meet Monday-Friday. All West-MEC courses are noted. If interested in a West-MEC course, an MHS counselor will meet with you to facilitate application.*

### **Aesthetics**

This is the introductory course for the CTE approved Aesthetics program. This course will focus on the fundamentals and the science of skin care and makeup application, techniques for exfoliation, skin analysis, deep pore cleansing, specialized treatments, facials and waxing.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: One Credit of English and Math with a C or better. Repeatable for Credit: No*

*Grade Level: 11, 12*

*Campus: This course is offered at the West-MEC Northwest Campus. This program is a one-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.*

### **Automotive Technology**

This is the introductory course for the Automotive Technologies program. This course prepares the student to apply technical knowledge and skills in the safety, adjustment, maintenance, part replacement, and use of tools, equipment and machines.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: One Credit of English and Math with a C or better. Repeatable for Credit: No*

*Grade Level: 11, 12*

*Campus: This course is offered the West-MEC Northwest Campus. This program is a two-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may*



extend before or beyond MHS school start and end times. Please see your counselor for additional information.

### **Biomedical Science**

This is the introductory course for the CTE approved Biomedical Sciences program. This course will introduce students to human physiology, medicine, research processes and bioinformatics. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: One Credit of English, Algebra 1-2, & Biology 1-2 with a C or better. Algebra 3-4 and Chemistry with a C or better (may be concurrently enrolled during first year of program). Immunizations must be up to date.*

*Grade Level: 11, 12*

*Repeatable for Credit: No*

Campus: This course is offered at the West-MEC Northwest Campus. This program is a two-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information

### **Dental Assisting**

This course prepares students to perform technical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of dental care services.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: One Credit of English and Science with a C or better. Immunizations must be up to date.*

*Grade level: 11, 12*

*Repeatable for Credit: No*

Campus: This course is offered at the West-MEC Northwest Campus. This program is a two-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.

### **Game Design 1-2**

This course taps into students' creative and technical skills as they learn about the many aspects involved with designing video games. Students will learn about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and the history of gaming, Students will have the opportunity to create their own plan for a 2D video game.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: None*

*Repeatable for Credit: No*

*Length: 2 SEM COURSE/1 YEAR*

*Grade Level: 11, 12*

### **Game Design 3-4**

Students will build upon skills learned in Game Design 1-2. Students will learn more about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and history of gaming. Students will create their own 2D video game.

*Credit Amount: 1.0*

*Prerequisite: Game Design 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 12*

### **Graphic Design**

This introductory level course acquaints students with the fundamentals of graphic design/visual communication and gives them hands-on experience with relevant technology to prepare them to consider pursuing careers in the creative and growing visual communication industry. The combination of visual art and technical concepts helps students develop skills in critical thinking, logic, communication, organization and problem solving. May also be applied as a Fine Arts.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

### **Education Professions**

This course is designed to prepare students for employment and/or postsecondary opportunities in the field of education. The course provides instruction in education career choices, education structure and systems, theories, pedagogy, human developmental stages, learning styles, and methodology. In addition to technical skills, students completing this course will develop advanced skills in critical thinking, academic and career development, employability, business, economics, and leadership. Each of these skills is required for entry into education occupations.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

### **Entrepreneurship 1-2**

Students will first look through the lens of an investor and see how the early-stage business investors make their investments. Then students will learn the fundamentals of identifying opportunity, creating value, and capturing value with the Three Pillars of Entrepreneurship. Students will prepare their own rubric for investing, and develop startup investment recommendations. Students will also apply insights and understandings to develop a business concept of their own and develop ideas into an investor pitch deck.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

### **Entrepreneurship 3-4**

This course teaches students approaches and methods for increasing their probability of success. Students will apply value creation directly to venture design. Students will then take a deep dive into entrepreneurial strategies and apply these learnings to further develop and fortify their venture.

*Credit Amount: 1.0*

*Prerequisite: Entrepreneurship 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 10, 11, 12*

### **Entrepreneurship 5-6**

In this course, students will develop a comprehensive marketing strategy that works. Students will take an empathetic approach to extending their company into the public domain. Students will explore branding, traditional marketing, and current trends, including social media and crowd-funding. From a legal perspective, students will learn about entity formation, registration and compliance with laws, and the basics of contracts. The finance section of this course will introduce students to a balance sheet and profit and loss.

*Credit Amount: 1.0*

*Prerequisite: Entrepreneurship 3-4*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 11, 12*

### **Entrepreneurship 7-8**

This is a capstone course where students will engage in in-depth discussions, guided readings, and other exercises to help them turn their four years of Entrepreneurship study into a fully-fledged business pitch that is suitable for investors. Ideally, each student will launch a crowdfunding campaign and/or complete in a venture competition.

*Credit Amount: 1.0*

*Prerequisite: Entrepreneurship 5-6*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 12*

### **Hairstyling**

This course introduces students to careers in Cosmetology and Related Services by preparing them to apply academic, employability and technical knowledge and skills related to common industry standards and practices applicable to the care of hair, skin, and nails.

*Credit Amount: 1.0*

*Prerequisite: One Credit of English and Math with a C or better.*

*Grade Level: 11, 12*

*Course Fee: None*

*Repeatable for Credit: No*

**Campus:** This course is offered at the West-MEC Northwest Campus. This program is a two-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.

## **Introduction to Hospitality and Tourism 1-2**

How would you like to be a part of the world's largest industry, with the potential to make a lot of money and take advantage of perks like flight upgrades, free hotel rooms, and free food? Welcome to the "industry of fun," Hospitality and Tourism. This course is the first in a series to dive into the numerous career avenues and business opportunities of the hospitality and tourism industry. You will learn about segments such as airlines, hotels, and cruise ships, as well as customer service and selling techniques. The course will prepare you to launch your career in hospitality and tourism, with projects and take-aways that you will be able to use immediately to help you land your dream job.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

## **IT Security**

IT Security courses teach students how to design and implement security measures in order to reduce the risk of data vulnerability and loss. Course content usually includes typical security policies; firewall design, installation, and management; secure router design, configuration, and maintenance; and security-specific technologies, products, and solutions.

*Credit Amount: 1.0*

*Prerequisite: One Credit of English and Math with a C or better.*

*Grade Level: 11, 12*

*Course Fee: None*

*Repeatable for Credit: No*

*Campus:* This course is offered at the Northwest West-MEC Campus. This program is a two-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.

## **Law and Public Safety**

This is the introductory course for Law and Public Safety. This course prepares students to apply academic and technical knowledge and skills related to common industry standards and practices. This course prepares students to perform technical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of Law and Public Safety.

*Credit Amount: 1.0*

*Prerequisite: One Credit of English and Math with a C or better. Students must be able to participate in arrest and law enforcement procedures and physical training. Immunizations must be up to date.*

*Grade Level: 11, 12*

*Course Fee: None*

*Repeatable for Credit: No*

*Campus:* This course is offered at the Northwest West-MEC Campus. This program is a two-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.

## **Medical Assisting**

This is the introductory course for the Medical Assisting Services program. This course will teach students the basic knowledge and skills needed for Medical Assisting Services in a clinical, medical or retail setting.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: One Credit of English and Science with a C or better. Immunizations must be up to date.*  
*Grade Level: 11, 12* *Repeatable for Credit: No*

Campus: This course is offered at the Northwest West-MEC Campus. This program is a two-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.

### **Nursing Services**

This course prepares students with the necessary clinical and administrative knowledge to become entry-level nursing assistants. Students will receive hands-on training and learn how to properly administer basic nursing care, understand bodily system and vital signs, practice client-centered care and critical thinking, work on patient advocacy, teamwork and professionalism, practice patient hygiene care, collect basic specimens and maintain patient records and proper ethics.

*Credit Amount: 1.0* *Course Fee: None*  
*Prerequisite: Two Credit of English, One Credit of Algebra II, and Two Credits of a Lab Science with a C or better. Immunizations must be up to date.*  
*Grade Level: 11, 12* *Repeatable for Credit: No*

Campus: This course is offered at the Northwest West-MEC Campus. This program is a one-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.

### **Physical Therapy**

This course will focus on learning the basic the skills needed to secure entry level jobs as physical therapy aides and introduce front office management to broaden their skill set and marketability.

*Credit Amount: 1.0* *Course Fee: None*  
*Prerequisite: One Credit of English and Science with a C or better. Immunizations must be up to date.*  
*Grade Level: 11, 12* *Repeatable for Credit: No*

Campus: This course is offered at the Northwest West-MEC Campus. This program is a one-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.

### **Powersports Technology**

This course is designed to introduce students to various marine systems, including inboard, outboard, stern drive, personal water craft (PWC), all-terrain (ATV), and motorcycle repair procedures. The course will cover basic two-stroke and four-stroke engine; propulsion; drive train; suspension; and braking repair for each type of equipment.

*Credit Amount: 1.0* *Course Fee: None*  
*Prerequisite: One Credit of English and Math with a C or better.*  
*Grade Level: 11, 12* *Repeatable for Credit: No*

Campus: This course is offered at the Northwest West-MEC Campus. This program is a two-year program. Program admission is by application and course offerings may be Monday-Friday. Class

meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.

### **Veterinary Science**

This course prepares students to apply academic, technical knowledge and skills of the Veterinary Assistant in an academic setting.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: One Credit of English, Math, and Science with a C or better.*

*Grade Level: 11, 12*

*Repeatable for Credit: No*

Campus: This course is offered at the Northwest West-MEC Campus. This program is a two-year program. Program admission is by application and course offerings may be Monday-Friday. Class meetings may extend before or beyond MHS school start and end times. Please see your counselor for additional information.

### **Computer and Information Sciences**

#### **Computer Programming**

Computer Programming courses provide students with the knowledge and skills necessary to construct computer programs in one or more languages. Computer coding and program structure are often introduced with the BASIC language, but other computer languages, such as Visual Basic (VB), Java, Pascal, C++, and COBOL, may be used instead. Initially, students learn to structure, create, document, and debug computer programs, and as they progress, more emphasis is placed on design, style, clarity, and efficiency. Students may apply the skills they learn to relevant applications such as modeling, data management, graphics, and text-processing.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: No Prerequisite*

*Repeatable for Credit: No*

*Length: 2 SEM COURSE/1 YEAR*

*Grade Level: 09, 10, 11, 12*

#### **Visual Basic (VB) Programming**

Visual Basic (VB) Programming courses provide an opportunity for students to gain expertise in computer programs using the Visual Basic (VB) language. As with more general computer programming courses, the emphasis is on how to structure and document computer programs and how to use problem-solving techniques. These courses cover such topics as the use of text boxes, scroll bars, menus, buttons, and Windows applications. More advanced topics may include mathematical and business functions and graphics.

*Credit Amount: 1.0*

*Course Fee: None*

*Prerequisite: Computer Programming I*

*Repeatable for Credit: No*

*Length: 2 SEM COURSE/1 YEAR*

*Grade Level: 10, 11, 12*

#### **C++ Programming**

C++ Programming courses provide an opportunity for students to gain expertise in computer programs using the C++ language. As with more general computer programming courses, the emphasis is on how to write logically structured programs, include appropriate documentation, and use problem solving techniques. More advanced topics may include multi-dimensional arrays, functions, and records.

*Credit Amount: 1.0*  
*Prerequisite: Computer Programming I & VB Programming*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11, 12*

### **Java Programming**

Java Programming courses provide students with the opportunity to gain expertise in computer programs using the Java language. As with more general computer programming courses, the emphasis is on how to structure and document computer programs, using problem-solving techniques. Topics covered in the course include syntax, I/O classes, string manipulation, and recursion.

*Credit Amount: 1.0*  
*Prerequisite: Computer Programming I & VB Programming*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11, 12*

### **Computer Programming – Other Language**

Computer Programming—Other Language courses provide students with the opportunity to gain expertise in computer programs using languages other than those specified (such as Pascal, FORTRAN, or emerging languages). As with other computer programming courses, the emphasis is on how to structure and document computer programs, using problem-solving techniques. As students advance, they learn to capitalize on the features and strengths of the language being used.

*Credit Amount: 1.0*  
*Prerequisite: Computer Programming I & VB Programming*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*  
*Repeatable for Credit: No*  
*Grade Level: 11, 12*

### **Computer Programming – Workplace Experience**

Computer Programming—Workplace Experience courses provide students with work experience in fields related to computer programming. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

*Credit Amount: 1.0*  
*Prerequisite: VB Programming & C++, Java, or Other Language Programming*  
*Length: 2 SEM COURSE/1 YEAR*  
*Grade Level: 12*

*Course Fee: None*  
*Repeatable for Credit: No*

## **VISUAL ARTS**

### **Art 1-2**

This is an introductory art class designed to familiarize students with the principles of design and elements of art, as well as a variety of art techniques, materials, and applications. Students will learn how to create their own artwork through the thoughtful arrangement of principles and elements and learn about and how to appreciate the visual language of artmaking through two- and three-dimensional design.

*Credit Amount: 1.0*  
*Prerequisite: None*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: \$15*  
*Repeatable for Credit: No*  
*Grade Level: 09, 10, 11, 12*

### **Advanced Art 3-4**

This course offers the student an opportunity to further enhance his/her artistic expression through various techniques and art mediums. Instruction includes drawing, painting, sculpture, clay, printmaking and airbrush. The students will develop their art skills and techniques in various art mediums at an advanced level.

*Credit Amount: 1.0*  
*Prerequisite: Intro to Art*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: \$15*  
*Repeatable for Credit: No*  
*Grade Level: 10, 11, 12*

### **Drawing 1-2**

This course will provide a foundation in the fundamentals of drawing and design. Students will develop their drawing skills including realistic and abstract forms of expression. Students will be introduced to all medias which include pencil, colored pencils, oil pastel, charcoal, scratchboard and ink. Demonstrations and critiques will be ongoing while students explore a wide variety of styles from the old masters to contemporary artists.

*Credit Amount: 1.0*  
*Prerequisite: Art 1-2 or Teacher Permission*  
*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: \$15*  
*Repeatable for Credit: No*  
*Grade Level: 10, 11, 12*

## **GENERAL ELECTIVES**

### **Advanced PE Fall – Female**

This course is designed to enable students to explore topics of interest related to physical education. Students may use this course as an opportunity to expand their expertise in a particular sport or activity, to explore a topic in greater detail, or to develop more advanced skills.

*Credit Amount: 0.5*  
*Prerequisite: Teacher Recommendation*  
*Length: 1 SEM COURSE*

*Course Fee: None*  
*Repeatable for Credit: YES*  
*Grade Level: 09, 10, 11, 12*

### **Advanced PE Fall– Male**

This course is designed to enable students to explore topics of interest related to physical education. Students may use this course as an opportunity to expand their expertise in a particular sport or activity, to explore a topic in greater detail, or to develop more advanced skills.

*Credit Amount: 0.5*  
*Prerequisite: Teacher Recommendation*  
*Length: 1 SEM COURSE*

*Course Fee: None*  
*Repeatable for Credit: YES*  
*Grade Level: 09, 10, 11, 12*



### **Advanced PE Spring – Female**

This course is designed to enable students to explore topics of interest related to physical education. Students may use this course as an opportunity to expand their expertise in in a particular sport or activity, to explore a topic in greater detail, or to develop more advanced skills.

*Credit Amount: 0.5*

*Prerequisite: Teacher Recommendation*

*Length: 1 SEM COURSE*

*Course Fee: None*

*Repeatable for Credit: YES*

*Grade Level: 09, 10, 11, 12*

### **Advanced PE Spring – Male**

This course is designed to enable students to explore topics of interest related to physical education. Students may use this course as an opportunity to expand their expertise in in a particular sport or activity, to explore a topic in greater detail, or to develop more advanced skills.

*Credit Amount: 0.5*

*Prerequisite: Teacher Recommendation*

*Length: 1 SEM COURSE*

*Course Fee: None*

*Repeatable for Credit: YES*

*Grade Level: 09, 10, 11, 12*

### **Personal and Family Finance**

Personal and family finance will begin the conversation on how to spend and save your money wisely and learn how to invest in safe opportunities. Learn key financial concepts around taxes, credit, and money management to provide both an understanding and confidence as you begin to navigate your own route to future security. Discover how education, career choices, and financial planning can lead you in the right direction to making your life simpler, steadier, and more enjoyable.

*Credit Amount: 1.0*

*Prerequisite: Algebra 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 11, 12*

### **Creative Writing**

This course is designed to provide you with a solid grounding in the writing process, from finding inspiration to building a basic story. Then you will go beyond the basics and learn more complicated literary techniques to create strange hybrid forms of poetry and prose. By the end of the course, you will better discover your creative thoughts and turn those ideas into fully realized pieces of creative writing.

*Credit Amount: 1.0*

*Prerequisite: English 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 10, 11, 12*

### **Fitness and Conditioning**

This course is designed to provide students with the basic skills and information needed to begin a personalized exercise program and maintain a healthy lifestyle. Students participate in pre and post-fitness assessments in which they measure and analyze their own levels of fitness based on the five components of physical fitness: muscular strength, endurance, cardiovascular fitness, flexibility, and body composition. Students will research the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Throughout the course students

will participate in a weekly fitness program involving elements of cardio, strength, and flexibility training.

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

### **Forensic Science**

This course offers students the chance to dive into the job of a crime scene analysis. Students will learn the techniques and practices applied during a crime scene investigation and how clues and data are recorded and preserved. Students will better understand how forensic science applies technology to make discoveries and bring criminals to justice as they follow the entire forensic process from pursuing the evidence trail to taking findings to trial.

*Credit Amount: 1.0*

*Prerequisite: Biology 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 10, 11, 12*

### **Journalism 1-2**

Explore a career in journalism and learn how to write a news story, a feature story, and an editorial. Throughout this course, you learn best practices for conducting research and interviews, analyzing the reliability of sources, and self-editing.

*Credit Amount: 1.0*

*Prerequisite: English 3-4*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 11, 12*

### **Life Management Skills**

Learn how to deal with real issues that impact your everyday life, such as nutrition, substance abuse, stress, and health. This course provides you with the facts you need to make important and informed decisions.

*Credit Amount: 0.5*

*Prerequisite: None*

*Length: 1 SEM COURSE*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

### **Marine Science 1-2**

Delve deeply into Earth's bodies of water and study geologic structures and how they impact the oceans. Investigate characteristics of various populations of aquatic life, patterns of distribution, and ongoing changes occurring in our ecosystem.

*Credit Amount: 1.0*

*Prerequisite: Biology 1-2*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 11, 12*

### **Reference and Study Skills**

This course teaches study skills and an awareness of learning styles to students who are mainstream, thereby providing some tutorial assistance. This course also aids students in adapting general education courses to exceptional learners. Enrollment in this course is determined by the needs addressed in the student's Individual Education Plan (IEP). *This course is available in-person only.*

*Credit Amount: 1.0*

*Prerequisite: None*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: Yes*

*Grade Level: 09, 10, 11, 12*

### **Social Media**

Explore the history, developments, risks, and rewards of using social media. Discover how your individual contributions and influence can be enhanced with the appropriate use of social media. Using your own social media account, you will examine how your interactions can generate change, inform others, and leave a lasting effect.

*Credit Amount: 0.5*

*Prerequisite: None*

*Length: 1 SEM COURSE*

*Course Fee: None*

*Repeatable for Credit: No*

*Grade Level: 09, 10, 11, 12*

### **Weight Training**

This course is designed to help students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning. Other topics include anatomy and conditioning.

*Credit Amount: 1.0*

*Prerequisite: Teacher Recommendation*

*Length: 2 SEM COURSE/1 YEAR*

*Course Fee: None*

*Repeatable for Credit: Yes*

*Grade Level: 09, 10, 11, 12*