Marshfield High School Course Catalog

2025/2026 Academic Year

Non-Discrimination Policy

The Board of Education is committed to providing an equal educational opportunity for all students in the District.

The Board does not discriminate on the basis of race, color, religion, national origin, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, sex (including transgender status, change of sex or gender identity), or physical, mental, emotional, or learning disability ("Protected Classes") in any of its student program and activities.

The Board designates individuals to serve as the District's "Compliance Officers". If you have any further questions, please contact: Tracy Kelz, Director of Student Services, 715-387-1101, kelz@marshfieldschools.org.

For more information, please review Board of Education Policy 2260 found on the district website.

Philosophy

Marshfield High School is a comprehensive public secondary school guided by the professional learning community premise of scholarship for all students. We recognize all students as individuals with different educational and social needs and we respond to those needs through robust curricular offerings that are both rigorous and innovative. Emphasis is placed on the learning standards of critical reading, critical writing, mathematical literacy, and analytical thinking. We believe these skills, in combination with the traditional content and cultural knowledge necessary to be a citizen, prepare our students to take their place in adult society.

Fees and Obligations

New students enrolling in the School District of Marshfield will be charged a one-time $20.00 registration fee. Students previously enrolled and re-enrolling will not be required to pay the fee a second time. The materials use fee should be paid preferably online on the Skyward Family Access account with a credit card or at registration with cash/check. A fine will be assessed in circumstances in which intentional or extensive damage is caused to books or when books are lost.

If the student transfers, or withdraws from school for any reason, the following refund policy shall apply upon request:

- Withdrawal during the first month - 70%
- Withdrawal from the second to the fourth month - 50%
- Withdrawal after four months – none

If a student enrolls after the school year has begun, the following charges shall apply:
Students entering in or before Semester 1 will pay the full materials use fee. Students entering in or after Semester 2 will pay 50% of the materials use fee.

Specific courses may have additional fees as approved by the Board of Education.

Academic Integrity Policy

The School District of Marshfield values academic integrity very highly and does not permit any form of dishonesty or deception that unfairly, improperly, or illegally enhances a grade on an individual assignment or in a course. The following is a list of behaviors that constitute academic dishonesty. Academic dishonesty includes, but is not limited to:

Cheating on Assessments

1. Copying from others (i.e., passing off someone else's as your own personal work).
2. Having or using notes, formulas, or other information without the approval of the teacher.
3. Having or using a communication device such as a cell phone to send or obtain unauthorized information.
4. Taking an exam for another student or permitting someone else to take a test for you.
5. Providing or receiving information about all or part of a test, quiz, or exam, including answers.
6. Gaining or providing unauthorized access to examination materials.

Note: Simply having possession during an exam of any prohibited or unauthorized information or device, whether or not it is actually used, is an act of academic dishonesty and will be treated as cheating.

Plagiarism in Papers and Assignments

1. Giving or getting improper help on an assignment meant to be your own work.
2. Including the following:
    a. Using the services of a commercial term paper company.
    b. Using the services of another student.
    c. Copying part or all of another person's paper and submitting it as your own.
    d. The use of AI language models like ChatGPT (or others) to generate content for academic assignments/assessments is strictly prohibited unless pre-approved by the respective classroom teacher.
3. Handing in a paper in more than one course without consulting both teachers (self-plagiarism).
4. Making up data for an experiment ("fudging data").
5. Citing nonexistent sources (articles, books, etc.) or sources that were not actually used to complete the assignment.

Misuse of Computers

1. Copying bits and pieces from a variety of Internet sources and representing this as your own work.
2. Misrepresenting your academic accomplishments, such as tampering with computer records.
3. Purposely circumventing Internet blocks to access forbidden sites or write or read forbidden communications.

Other

1. Violating copyright.
2. Deceiving a teacher to get special consideration.
3. Failing to promptly stop work on an exam when the time allocated has elapsed.
4. Forging a signature.
5. Hoarding or damaging library materials.

Note: Attempted academic dishonesty, even if unsuccessful, will be treated as academic dishonesty.

Consequences

The consequences for academic dishonesty will be based on the severity and frequency of the violation. Consequences for lesser violations will be handled by the teacher and may range from having to redo and resubmit documents to total loss of credit for the test, paper, or project. In repeat cases, or when it is clear that the dishonesty was premeditated and severe, the teacher will consult with a principal to determine the appropriate consequences. In every case, administrators and parents will be notified and the case documented.

Grading Policy

Formative assessments monitor student learning to provide ongoing feedback that can be used by instructors to improve their teaching and students to improve their learning.
Summative assessments evaluate student learning at the end of an instructional unit by comparing it against a standard or benchmark.

1. A minimum of two formative assessments must be given and scored with students earning over 70% before the student may take the summative. **Rationale:** In order for a student to take a summative assessment a teacher must have reasonable confidence that a student has understanding of the material being assessed.
2. Students who are absent (excused), have **five days to take the summative exam or turn in a summative project they missed due to their absence.**
3. On the 5th day the student may be given up to 70% for taking it late and may be given an alternate assessment for taking it late as well. They have also forfeited their retake possibility if all 5 days are used. If the test is not complete or project not turned in a student may earn a zero. It is recommended to use class time on that 5th day to finish whatever the student can to avoid a zero. **Rationale:** When a student is absent the class does not stop. An absent student should make any missed work as soon as possible – 5 days being the most. This is done to ensure the student catches up to their classmates upon returning from an excused absence and is making up work that will lead to greater success on the concepts the class is currently exploring.
4. Extended illness or other mitigating circumstances may be grounds for more time allowed to make up missing work. Students who **do not pass a summative at 70% need to retake the summative**, and this needs to be done within the 5 days of the summative. Students may or may not earn more or less than 70%. **Rationale:** Anytime a student is retaking a summative assessment their class is still moving forward through the curriculum. To allow the distraction of remediating a concept beyond 5 days may interfere with the students' success.
5. Teachers need to do all they can to enter grades in Skyward the same day they hand back summative work to students. Students who do not take advantage of the retake should be noted in Skyward. **Rationale:** Our students and parents care about grades. They deserve to have the most accurate and up to date information possible. Parents should also be able to see if their student has to not take advantage of the retake opportunity.
6. Teachers need to contact parents/guardians and guidance after multiple retakes have occurred, especially early in the year, and determine if the student is in the right class. **Rationale:** If a retake is necessary after each summative assessment, it is an indicator that possibly the student has been placed in a class that is beyond their current skill level. Teacher, parent and a guidance counselor should communicate to see if the student's placement should be changed.

Course Coding

Regular (R) course sections are designed for students who demonstrate fundamental skill and content competency. These courses are graded on a 4.0 scale.
Honor (H) course sections are for those students who seek an enrichment experience in the subject area. These courses are graded on a 4.25 scale.
Post-Secondary (PS) These courses are graded on a 4.5 scale.
Advanced Placement (AP) course sections are designed for students who plan to pursue post-secondary education at the university and technical college levels. To earn college credit, students sit for national exams in May. Marks of 3, 4, and 5 on AP exams typically allow students to earn general education credits towards their post-secondary degree.
Dual Credit (DC) course sections are technical college courses taught at the high school in which students can earn both high school and technical college credit. Students should see their Dual Credit teacher for registration as students must opt-in by the registration deadline to earn Dual Credit for the course. Subsequent enrollment in a technical college class is required for credit to appear on a technical college transcript.

Youth Apprenticeships (YA) is a one or two-year elective program that combines academic and technical classroom instruction with mentored on the job learning and training.

Academic Services

Credit Recovery classes are offered to students identified at-risk of not graduating because of failure in one area of the academic core. Placement in credit recovery is a collaborative agreement between administration, guidance, and the Credit Recovery Instructor.
Special Education classes and services accommodate students based on an individual education plan.
Testing Center is available to all students from 7:00 am to 4:00 pm to make up or retake any exams.
Marshfield Alternative High School is an off-campus learning community offering individualized learning, small group instruction and self-paced curriculum to a limited number of students who need an alternative approach to learning. Enrollment is dependent upon application approval. Applications are available in the Guidance Office.

Early Graduation

The Board of Education acknowledges that some students are pursuing educational goals which include graduation from high school at an earlier date than their designated class.
Application for early graduation will be submitted to the high school principal in accordance with school regulations.

- Senior Mid-Year graduates must complete early graduation application by the end of first quarter of their 7th semester
- Juniors graduating one year early must complete early graduation application by the end of first quarter of their 5th semester.

The District may honor this request if all conditions for graduation are met and the student fulfills the graduation requirements. The student may participate in the graduation ceremonies with his/her designated class. However, early graduates will lose eligibility to participate in any WIAA-recognized sports starting the first day of the new academic semester following their early graduation.

Class Membership

Freshman = 0 to 3.5 credits
Sophomores = 4.0 to 9.5 credits
Juniors = 10.0 to 16.5 credits
Seniors = 17.0 credits and above

Course Audit

Students may repeat a passed course by auditing the course for a higher grade. Students will only earn credit for a course once but may improve their GPA if they earn a higher grade while auditing a course. If a higher grade is earned by auditing a course, the new grade will be placed on the transcript and the previous grade will be marked as “AU”. If a higher grade is not earned the audited class will receive AU as a grade. A student who repeats a failed class may earn a passing grade and credit with successful completion of the repeated course. The original failing grade as well as the passing grade will appear on the student’s transcript and be factored into the student’s cumulative grade point average (GPA).

Graduation Requirements

The following graduation requirements have been established for Marshfield High School:

Four credits	English
Three and one half credits	Social Science
** Three credits*	Math
** Three credits*	Science
One and one half credits	Physical Education (taken over 3 years)
One half credit	Healthy Choices (taken in grades 9-10)
One half credit	Consumer & Personal Finance (taken junior or senior year). Students can also fulfill this requirement by completing AP Economics or CAPP Financial Literacy H.
One half credit	Computer Applications R, H or Comp. Essentials Foundations
Eight and one half credits	Elective Courses
Total: 25 credits	

Receiving 25 credits is required by school district policy in order to graduate from the high school.

*A **MAXIMUM** of 1 credit of science may be obtained from the following agriculture/technology courses:

The courses listed below earn the science credit listed:
ES Animal Science- ½ credit
ES Plant & Soil Science- ½ credit
ES Agriscience- 1 credit
ES Principles of Engineering- 1 credit

You must take BOTH of the courses listed below to earn ½ science credit:
Dairy Science
Small Animal Veterinary Science

The course listed below earns the math credit listed:
EM Digital Electronics- 1 credit

Credits- Maximum and Minimum Numbers

All students must carry a minimum of 6.5 credits during the school year. Summer school credits are not considered part of the academic school year load. Students are able to carry a maximum of 9.0 credits during the year. Exceptions to this policy are considered only under unusual circumstances and only with the written consent and approval of the parents, school counselor and principal.

Alternative Programming/Instruction

Marshfield High school's primary instructional model is in-person teaching and learning courses, offered by Marshfield High School professional staff. Marshfield High school also offers a select amount of alternative programming/instruction to students when applicable; primarily for course offerings that are not offered at Marshfield High School. Interested students should speak with their school counselor for additional information. Students requesting enrollment in a virtual course must submit their application request 6 weeks before the semester start date.

Schedule/Registration Changes

It is always our goal to put our students in a position to experience a comfortable challenge yet be successful. It is our belief that students must choose their courses carefully and with the intent of committing to the courses they selected at the time of scheduling/registration.

Parents should assist their child/ren in carefully selecting their courses for the following year. Information is available in the course guidebook which is found online. Students will be meeting with school counselors to assist in selection of courses. If a student is not sure about a certain class, it is advisable to ask the teacher who is currently teaching it, if it would be a good choice. Finally, it may be helpful to speak to peers who have had the class.

Schedule Change Policy

SCHEDULE CHANGE PRIOR TO THE START OF THE YEAR

Students may drop any course and add another course in their schedule for one or more of the following reasons:

- Medical reasons (with documentation)
- Due to significant changes to a student's post high school plans
- There is a computer error on the student's schedule
- There are two study halls in one semester and none in another
- The student is in a Co-op, Health Career Connections or Youth Apprenticeship and needs to be free at certain times for his/her job.
- The student's IEP requires that a modification be made.
- The class needs to be added as it is a graduation requirement.

ADDING A COURSE AFTER THE START OF THE SEMESTER

Students may add a course in place of a study hall during the first six days of a semester if space is available in the course. Students must consult with the teacher regarding make-up requirements for any missed content. If students need to add a class to reach 6.5 credits, the class must be added during the first six days of the semester and must fit into their schedule.

DROPPING A COURSE AFTER THE START OF THE SEMESTER

Students may withdraw from a course if they make the request **during the first four weeks** of each semester and if they continue to have 6.5 credits on their schedule for the school year without the dropped class. Beyond this four-week window, students may be allowed to withdraw with a "W" for extenuating circumstances such as a medical condition. If an extenuating circumstance is not present, students who drop a class after this time will receive a grade of "F" and have a failing grade included in their grade point average.

REQUEST FOR A TEACHER CHANGE

1. To initiate a teacher change the following process must be completed:
    a. The student, parent, and teacher must discuss the reason for the request.
    b. If after this meeting occurs, the parent still desires a teacher change, the parent must submit a written request to a principal stating the educational reason for the request.

c. Upon review of the request and consultation with the school counselor, a building principal will approve or deny the request.
d. If a principal approves the request, the student's school counselor will be directed to make the change. This change can only occur if the master schedule allows such a change. If the change is not possible within the master schedule, the student may drop the current class and take the class the following year with a different instructor.

REQUEST FOR COURSE LEVEL CHANGE

To initiate a teacher or class level change the following process must be completed:

1. The student, parent, and teacher must have communicated to discuss the reason for the request.
2. If it is determined after this meeting that a level change is required, the teacher will notify the school counselor to process a schedule change.
3. **Level changes can only occur at quarter breaks in the grading periods.** The student's quarter grade from the previous course will be entered in the gradebook for the new course and averaged for the semester grade.

Class Rank

As of Spring 2010, we no longer publicly rank students. This means that rank in class will not be part of the semester report cards nor the official transcript. Ranking will only be made available to colleges and scholarship committees upon consent and request of the 18-year-old student (or parent). This ranking is determined by adding the ranks of the cumulative semester grade points and the cumulative grade point average beginning in the ninth grade. Total grade points are determined by the total number of credits completed and the semester grades in each class. High ranking graduates (top 5%) are determined according to the seventh semester class rank. To be considered in the class rank, students must have completed at least three consecutive semesters at Marshfield High School Honor cords are awarded to students who have a 3.8 cumulative GPA at the end of the seventh semester and/or are in the National Honor Society.

Class rank and honor roll are not the same. Honor roll is determined by grade point average on a quarterly basis. Quarter honor rolls (3.8+ and 3.4-3.799) are posted in the hall outside of the Counseling Office. Class rank will be updated at the end of each semester once grades are finalized. I grades are averaged as F's. Grade changes are figured into the next semester ranking. Students have 2 weeks to make up obligations.

Pass/Fail Policy

Students will be able to take **one** elective course per year (for a total of four courses in the high school career) on a pass/fail basis. Post-secondary Coursework (AP & DC) cannot be taken pass/fail. To earn a pass for a course and earn credit students must:

1. Conference with the instructor to determine expectations & acquire signature.
2. Complete pass/fail paperwork within the first four weeks of the course.
3. Earn a 70% average in the course.
4. Maintain academic and personal integrity in the learning environment.

Students may not revoke the pass/fail option once the paperwork has been submitted nor may they submit paperwork once the first four weeks of course instruction has passed. Students may still drop the course but they will have used the one pass/fail option for the academic year.

Course Offerings

Please note that course offerings are subject to change based on staff availability and student enrollment requests each year. As a result, courses are subject to change and may not be offered. In such cases, students will be offered alternative courses from their selected choices during the registration process to replace the credit/s. For this reason, it is important for students to select appropriate alternative courses during the registration process.

Grade Point Computation Tables

This table is used thru the Class of 2026

	POST-SECONDARY (PS4)		HONORS (PS3)		REGULAR (PS1)		
GRADE	1	1/4	1	1/4	1	1/4	CREDIT
A-	4.129	1.032	3.901	0.975	3.670	0.917	1
B+	3.746	0.937	3.540	0.885	3.330	0.832	1
B	3.375	0.843	3.189	0.797	3.000	0.750	1
B-	3.004	0.751	2.838	0.709	2.670	0.667	1
C+	2.621	0.655	2.477	0.619	2.330	0.582	1
C	2.250	0.562	2.126	0.531	2.000	0.500	1
C-	1.670	0.417	1.670	0.417	1.670	0.417	1
D+	1.330	0.832	1.330	0.332	1.330	0.332	1
D	1.000	0.250	1.000	0.250	1.000	0.250	1
D-	0.670	0.167	0.670	0.167	0.670	0.167	1
F	0.000	0.000	0.000	0.000	0.000	0.000	0
I	0.000	0.000	0.000	0.000	0.000	0.000	0
W	0.000	0.000	0.000	0.000	0.000	0.000	0
X	0.000	0.000	0.000	0.000	0.000	0.000	0
P	0.000	0.000	0.000	0.000	0.000	0.000	1
Note: I = Incomplete; W = Withdrawn from Course; X = Medical Excuse; P = Pass							
Note: Some classes are offered only at the honors, AP or DC level.							

This table is used for the Class of 2027 and beyond

QUALITY POINTS:	POST-SECONDARY (PS) – L4		HONORS (H) – L3		REGULAR (R) – L1	
GRADE:	Credits = 1.0	Credits = 0.25	Credits = 1.0	Credits = 0.25	Credits = 1.0	Credits = 0.25
92.50 – 100.0 A	4.50000	1.12500	4.25000	1.06250	4.00000	1.00000
89.50 – 92.49 A-	4.16667	1.04167	3.91667	0.97917	3.66667	0.91667
86.50 – 89.49 B+	3.83333	0.95833	3.58333	0.89583	3.33333	0.83333
82.50 – 86.49 B	3.50000	0.87500	3.25000	0.81250	3.00000	0.75000
79.50 – 82.49 B-	3.16667	0.79167	2.91667	0.72917	2.66667	0.66667
76.50 – 79.49 C+	2.83333	0.70833	2.58333	0.64583	2.33333	0.58333
72.50 – 76.49 C	2.50000	0.62500	2.25000	0.56250	2.00000	0.50000
69.50 – 72.49 C-	2.16667	0.54167	1.91667	0.47917	1.66667	0.41667
66.50 – 69.49 D+	1.83333	0.45833	1.58333	0.39583	1.33333	0.33333
62.50 – 66.49 D	1.50000	0.37500	1.25000	0.31250	1.0000	0.25000
59.50 – 62.49 D-	1.16667	0.29167	0.91667	0.22917	0.66667	0.16667
0.00 – 59.49 F	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
* Grade marks of Incomplete (I), Withdrawal (W), Audit (AU), and Pass (P) carry no quality points and do not calculate into the students GPA.						

Credits Beyond High School

	Advanced Placement (AP)	Dual Credit (DC)	Early College Credit Program (ECCP)	Start College Now (SCN)
DESCRIPTION	Exposure to college level coursework. Good indication of college readiness	Agreement between SDOM and specific post-secondary institutions (Mid-State Technical College-MSTC and UWSP are common) allowing you to earn high school and college credit. Courses are actual college courses, using college textbooks and materials.	Wisconsin students can take up to 18 credits in 9th-12th grade thru University of Wisconsin System institutions, Wisconsin tribal colleges, and/or Wisconsin private higher education institutions.	Wisconsin students can take up to 18 credits in 11th -12th grade offered by all Wisconsin Technical Colleges.
SITE	Marshfield High School	Marshfield High School	WI College/University	WI Technical Colleges
TAUGHT BY	Marshfield High School Teachers	Marshfield High School Teachers	College professor	College professor
REQUIREMENTS	Many AP courses have prerequisites. AP courses are independent of the AP exam. You may take AP exams without taking the course if you feel you can prepare for the exam independently. AP exam registration has specific deadlines, more information is available on the MHS AP website.	Students register at the start of the high school class for dual credit with MSTC. Students complete an online UW Special Student Application during the start of the high school class. Students must successfully pass the UW Math Placement Exam to earn high school and college credit.	-Admission requirements set by post-secondary school. -Students cannot be enrolled in another post-secondary type of institution. -Course must not be comparable to any MHS course. - Course must satisfy graduation requirement. **Application deadlines:** - October 1 - spring semester course - March 1 - fall semester course - February 1- summer semester course	-Admission requirements set by post-secondary school -Course must not be comparable to any MHS course. - Course must satisfy graduation requirement. **Application deadlines:** - October 1-spring semester course - March 1- fall semester course
GRADES & CREDIT OPPORTUNITY	Grade is based on class performance. College credit is based on your score on the AP exam. Scores of 3 or above (1-5 scale) are considered passing; some colleges require a score of 4 or 5 for a direct credit transfer. AP credits are considered "credits in escrow"; not guaranteed until you are admitted to a post-secondary institution. You receive exam scores in July.	College grades and credits are recorded on the post-secondary transcript and included in your collegiate grade point average (GPA).	Grades are earned through the college awarding credit. Grade will be recorded on transcript at both the high school and college/university if student has not exceeded 25 high school credits prior to beginning the course. Credit will appear on only the college transcript if the course is not being taken for high school credit. Earn 0.5 high school credit per 1.0-2.0 semester credit offered by the post-secondary course. Earn 1.0 high school credit per 3.0 + semester credit offered by the post-secondary course.	Grades are earned through the college awarding credit. Grade will be recorded on transcript at both the high school and college/university. Earn 0.5 high school credit per 1.0-2.0 semester credit offered by the post-secondary course. Earn 1.0 high school credit per 3.0 + semester credit offered by the post-secondary course.
COST	Student fee for optional AP exam	None	School District of Marshfield covers **75%** of the course tuition. The institute of higher education shares in 25% cost of an allowable tuition charge. If the course is denied for high school credit and the student is receiving only postsecondary credit, the student's family is responsible for paying 25% of the allowable tuition. Books are provided by the school district, and the student will return them to the district at the course's completion. Transportation is the student/family responsibility	School District of Marshfield covers **100%** of the course tuition if approved. If the School District does not approve the request, then 100% of the tuition cost is the student's responsibility. Course(s) will be denied if the school offers a comparable course or does not meet HS graduation requirements. Books are provided by the school district, and the student will return them to them at the course's completion. Transportation is the student/family responsibility.

*Please note dual credit courses are subject to change. Students enrolled in Advanced Placement, Dual Credit, ECCP, or SCN courses are expected to adhere to the deadlines, fees, and requirements set by both the respective organizations and Marshfield High School.

NCAA Eligibility Requirements

Students who wish to be eligible for NCAA scholarships should check which Marshfield High School courses meet the requirements on the NCAA website: www.eligibilitycenter.org.

All NCAA approved courses have a notation in the course catalog. See your counselor if you have any questions about which courses do meet the requirements.

DIVISION I

To study and compete at a Division I school, you must graduate from high school and meet all the following requirements:

1. Complete 16 NCAA core courses:
    - 4 years English
    - 3 years Math (Algebra 1 or higher)
    - 2 years Science (including one year of lab science)
    - 1 year additional English, Math or Science
    - 2 years Social Science
    - 4 years additional courses (Any area listed above, world language, or nondoctrinal religion/philosophy)
2. Earn 16 NCAA approved core course credits in the right areas:
    - Complete 10 of your 16 NCAA approved core course credits, including seven in English, Math, or Science before the start of the seventh semester.
    - Complete your 16 NCAA approved core course credits in eight academic semesters or four consecutive academic years from the start of ninth grade.
3. Earn a minimum 2.3 core course GPA.

DIVISION II

To study and compete at a Division II school, you must graduate from high school and meet all the following requirements:

1. Complete 16 NCAA core courses:
    - 3 years of English
    - 2 years of Math (Algebra 1 or higher)
    - 2 years of natural or physical Science (including one year of lab science)
    - 3 additional years of English, Math or Science
    - 2 years of Social Science
    - 4 additional courses (Any area listed above, world language, or nondoctrinal religion/philosophy)
2. Earn 16 NCAA approved core course credits in the right areas.
3. Earn a minimum of 2.2 core course GPA.

Marshfield High School- Academic Career Plan

4 Year Plan

	Freshman	Sophomore	Junior	Senior
English (4 credits)				
Math (3 credits)				
Science (3 credits)				
Social Studies (3.5 credits)				
PE (1.5 credits)				
Elective				
Elective				
Elective				
Elective				
Elective				
Totals:	**Credits**	**Credits**	**Credits**	**Credits**
Summer School				
Summer School				

- Fit for Life (.5 credits) required Freshman grade PE
- Healthy Choices (.5 credits) Freshman or Sophomore
- Computer Applications (.5 credits) Freshman or Sophomore
- Consumer and Personal Finance (.5 credits) Junior or Senior

UNIVERSITY OF WISCONSIN SYSTEM COLLEGE PREP MINIMUMS

All UW System institutions require a minimum of seventeen high school credits distributed as follows:

1. **Core College Preparatory Credits** – must be regular or honors level classes
   English 4 credits
   Mathematics 3 credits (Algebra 1, Algebra 2,
   Geometry) Natural Science 3 credits
   Social Science 3 credits

2. **Elective Credits** - 4
   "Electives may be chosen from English, Mathematics, Natural Science or Social Science, Foreign Language, Fine Arts, Computer Science and other academic areas. Some campuses may accept technical and career courses for a portion of these credits. A minimum of two credits in a single foreign language is recommended for admission to UW-Madison, and may help meet graduation requirements at other UW System campuses."

HIGHLY SELECTIVE COLLEGES AND UNIVERSITIES throughout the country expect students to take the most difficult courses offered each year of their high school career. They may have very specific requirements regarding English, Mathematics, Natural Science, Social Science and Foreign Language. Students should consult specific college admission websites for more information.

TESTING: **THE ACT TEST IS PREFERRED BY THE UW SYSTEM**, but the SAT is also accepted. Research shows that students who take college preparatory classes through their junior year have higher scores on the ACT Test.

PRIVATE COLLEGE ADMISSION REQUIREMENTS

Wisconsin has several private colleges and universities. The Wisconsin Association of Independent Colleges and Universities (WAICU), supports these schools. Its mission is to provide access to higher education for every qualified student. The strongest candidates for admission have taken four years of English and three or more years of Math, Natural Science, and Social Science. Most students go beyond this minimum. Some private colleges may expect two or more years of a world language. The greater the number of courses taken in the subjects listed above, the stronger the application. For specific admission requirements at Wisconsin Private Schools, please go to www.wisconsinprivatecolleges.org.

WISCONSIN TECHNICAL COLLEGE SYSTEM ADMISSION REQUIREMENTS

To apply for admission to an Associate Degree program or Diploma Program, you must have accomplished one of the following:

- Graduation from high school;
- Or completion of an accredited high school equivalency program;
- Or completion of a GED or HSED.

Many technical college programs have additional requirements for admission. Some have specific course requirements; some require that you achieve a "C" or better grade in those courses. Refer to program requirements on the technical college website of interest for more information.

The Wisconsin Guarantee

In March 2024, the University of Wisconsin System launched "The Wisconsin Guarantee," a program established under legislation ACT 95. This initiative currently requires Wisconsin public universities to admit students in the top 10% of their graduating class upon conclusion of their 11th-grade year. While most universities in the UW System follow the top 10% standard, UW-Madison specifically requires students to be in the top 5% of their graduating class. Upon conclusion of their 11th-grade year, Marshfield High School will notify students and families in the graduating class about their class rank, indicating whether they are currently in the top 5% or 10% of the class, and will include this information on their official transcript.

To take advantage of The Wisconsin Guarantee, eligible students must still complete all application procedures and meet the priority application deadlines set by each university. Interested students are also encouraged to apply to other schools and follow the traditional application process if they prefer. Please note that criteria, timelines, and other details are subject to change. Transfer students who were in the top 5% or 10% in a previous school are not eligible for The Wisconsin Guarantee if they are no longer in the top 5% or 10% of their new school prior to the end of their junior year. For more information about The Wisconsin Guarantee, visit the Marshfield High School website or go to www.wisconsin.edu/wisconsin-guarantee.

Direct Admit-Wisconsin

As of the 24-25 school year, Marshfield High School is participating in the Direct Admit Wisconsin program, an initiative from the University of Wisconsin System that currently offers early admission to qualifying students based on their 11th-grade GPA and academic coursework. Participation in the program is optional, and if accepted to one or more UW schools, students are not required to enroll or attend. If students choose to participate in Direct Admit Wisconsin, Marshfield High School will share basic student information—such as your student's name, contact details, GPA, and transcripts—with the University of Wisconsin System.

The program currently includes 10 UW campuses for Fall 2025: UW-Green Bay, UW-Milwaukee, UW-Oshkosh, UW-Parkside, UW-Platteville, UW-River Falls, UW-Stevens Point, UW-Stout, UW-Superior, and UW-Whitewater. To benefit from Direct Admit Wisconsin, eligible students must opt in and adhere to the application procedures and priority deadlines set by Direct Admit Wisconsin program and by each university. Interested students are also encouraged to apply to other schools and follow the traditional application process if they prefer. Please note that criteria, timelines, and other details are subject to change. For more information about Direct Admit Wisconsin, please visit the Marshfield High School website or www.wisconsin.edu/direct-admissions/.

Direct Admit-Mid-State Technical College

Marshfield High School currently partners with Mid-State Technical College to offer senior students Direct-Admit: Mid-State to support the 60 Forward initiative, which aims to increase Wisconsin's post-secondary attainment rate by removing barriers to college admissions. Participation in Direct-Amit Mid-State is optional; each year senior students/families will be provided additional information about the program and the option to opt in, if interested. To benefit from Direct Admit-Mid State Technical College, eligible students must opt in and adhere to the application procedures and deadlines set by Mid-State Technical College. Interested students are also encouraged to apply to other schools and follow the traditional application process if they prefer. Please note that criteria, timelines, and other details are subject to change. For more information about Direct Admit-Mid State Technical College, please visit the Marshfield High School website or https://www.mstc.edu/direct-admission.

Career Based Learning

Different from a regular after-school job, career-based learning programs are school supervised experiences that allow for a student to observe, train, and/or work with a partner employer/mentor to discover how knowledge learned in school is put into action, while gaining applicable worksite skills. Career-based learning benefits to students may include:

- Building your resume
- Receiving paid on-the-job training or job shadowing experience while earning school credit
- Developing strong academic, technical, and employability skills
- Earning a recognized skills certificate
- Developing a network of contacts in your career field
- Pursuing immediate employment, military, registered apprenticeship, or post-secondary education upon high school graduation

Career-based learning is for **ALL** students! Marshfield High School offers a variety of career-based learning programs. Learn more below or contact Mrs. Fredrick (fredrickj@marshfieldschools.org). For more information on the courses below, please reference the Family & Consumer Sciences section. Please note that students must be able to transport themselves to and from the work or volunteer site(s). If transportation is a concern, efforts will be made to find a site within walking distance, however, this isn't always possible.

Future Teacher Internship

Students will have the opportunity to volunteer with a teacher(s) in various classroom settings to investigate career options in the Education and Training Career Cluster – Teaching/Training Pathway. In addition to hands-on experience in an assigned classroom, students will attend seminars on tutoring, applying to the university, collaborating with other future teacher interns, learning about professional organizations and professional learning communities, interacting with students, collaborating with mentor teacher(s), and meeting program learning targets.

Health Career Connections

Health Career Connections offers unpaid internships during the school day designed to familiarize students with the various careers in the medical profession. Students are scheduled at various health care facilities to learn more about different areas of the health care field, skills needed to work in health care, career pathways of medical professionals, and more. Nursing Assistant certification is highly recommended between junior and senior year through the technical college system (tuition and books are paid for by the school district).

To apply for Health Career Connections, current juniors must complete a program application during quarter 2 or 3 available through the Jobready WBL app in My Apps and interview with employers in the Fall-Winter of your junior year.

Sports Medicine Internship

Complete Canvas online modules and volunteer as an Athletic Training Student Aide at athletic games and practices. During your volunteer hours, you will be assisting the Licensed Athletic Trainer (LAT) in caring for injured athletes, monitoring rehabilitation exercises as directed by the LAT, preparing medical kits, and reviewing/maintaining medical records.

Work Based Learning Courses

Work-Based Learning courses emphasize job training and development of employability skills deemed critical by employers in our community. These courses are an elective option for seniors who are on pace for graduation to earn elective credit through employment. Students that successfully complete Work-Based Learning I or Work-Based Learning II, (including demonstrating professional workplace skills) and work a minimum of 90 hours during the semester, may be eligible to earn the Employability Skills Certificate from the Department of Public Instruction.

DC Work-Based Learning I

Course: 996

Semester 1- Select 1

- Semester 1 Online Instruction + Work Experience
- Semester 1 Face-to-Face Instruction + Work Experience

Credit: .5 credit for instruction; 1.0 credit for employment of an average of 10 hours/week
Duration: Semester
Grade: 12
Pre-Req:

- Earned 20+ credits
- Employment (Verified in September)
  About one month before the course starts, Mrs. Fredrick will reach out to students with information about the Training Agreement to confirm eligible employment. The Training Agreement must be completed by the 1st day of the semester. Students that don't submit the Training Agreement by the deadline will be dropped from WBL and will need to meet with their school counselor so courses can be added to their schedule.

Fee: None

Face-to-Face or online instruction will include preparing a career portfolio and exploring topics such as employability skills, individual career plans, the world-of-work, resumes, cover letters, interviews, career exploration and job hunting adapting to change and differences, workplace health, safety, legal matters, workplace ethics, and post-secondary options. Students will earn .5 credits for instruction and 1.0 credit average 10 hours/week for successful paid work experience at an approved career workplace. Participation in a **Career & Technical Student Organization** is recommended.

Work-Based Learning II

Course: 997

Semester 2- Select 1

- Semester 2 Online Instruction + Work Experience
- Semester 2 Face-To-Face Instruction + Work Experience

Credit: .5 credit for instruction; 1.0 credit for employment of an average of 10 hours/week
Duration: Semester
Grade: 12
Pre-Req:

- Successful completion of Work-Based Learning I is highly recommended
- Earned 20+ credits
- Employment (verified in January)
  About one month before the course starts, Mrs. Fredrick will reach out to students with information about the Training Agreement to confirm eligible employment. The Training Agreement must be completed by the 1st day of the semester. Students that don't submit the Training Agreement by the deadline will be dropped from WBL and will need to meet with their counselor so courses can be added to their schedule.

Fee: None

Face-to-Face or online instruction will include extended employability skills, on-the-job thinking skills, developing teamwork and leadership capabilities, entrepreneurship, professional communication and interpersonal relationships at work, balancing work and personal life, managing money, banking and credit, and understanding insurance. Students will earn .5 credits for instruction and 1.0 credit average 10 hours/week for successful paid work experience at an approved career workplace. Additional credits can be earned at semester's end after verifying work hours. Participation in a **Career & Technical Student Organization** is recommended.

Youth Apprenticeship

SINCE 1991
YOUTH APPRENTICESHIP
WISCONSIN

Youth Apprenticeship (YA) integrates school-based and work-based learning to instruct students in employability and occupational skills defined by Wisconsin industries. Local programs provide training based on statewide youth apprenticeship curriculum guidelines, endorsed by business and industry. Students are instructed by qualified teachers and skilled worksite mentors for exposure to multiple aspects of an industry.

YA Program Areas:

*Agriculture, Food & Natural Resources
*Architecture & Construction
*Arts, A/V Technology & Communications
*Business Administration
*Education
*Finance
*Health Science
*Hospitality & Tourism
*Information Technology
*Manufacturing
*Marketing
*Science, Technology, Engineering & Math
*Transportation, Distribution & Logistics

Timeline & Requirements:

Level One

- Junior OR Senior year of High School
- 450 hours of paid, work-based learning MINIMUM
- 2 semesters of related classroom instruction
- Quarterly employer evaluations and competency checklist review

YA 1
993

Level Two

- Senior year of High School
- 900 hours of paid, work-based learning MINIMUM
- 4 semesters of related classroom instruction
- Quarterly employer evaluations and competency checklist review

YA 2
994

HOW DO I APPLY FOR WORK BASED LEARNING COURSES?

Enter contact information for your references (2 teachers and 1 community member) and complete the online application.

Your references will complete their recommendations online through a link sent directly to their email.

Apply now and open doors to endless possibilities!

Questions? Email Mrs. Fredrick at fredrickj@marshfieldschools.org

ONLINE COURSES

****DC MEDICAL TERMINOLOGY PS**
Course: 793V
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Gain knowledge of medical terminology while learning the operative, diagnostic, therapeutic and symptomatic terminology of all body systems.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Medical Terminology #10501101, 3 credits.

****This course may be offered in an online course format depending on student enrollments.**

AGRICULTURE COURSES

NOTE: A MAXIMUM OF 1 CREDIT of science may be obtained from the following agriculture classes:
The courses listed below earn the science credits listed:
ES Agriscience- 1 credit
ES Animal Science- 1/2 credit
ES Plant & Soil Science- 1/2 credit

You must take BOTH of the courses listed below to earn ½ science credit:
Dairy Science
Small Animal Veterinary Science

ES = Satisfactory completion of one credit of the courses classified as ES (Equivalency Science) will satisfy a credit requirement in science.

* = Satisfactory completion BOTH courses preceded by an asterisk will satisfy a one-half (½) credit requirement in science.

You can complete one credit of your three science requirements by successfully completing Agriculture courses with an asterisk (*) or ES (Equivalency Science) in their title.

ALL FFA MEMBERS MUST BE ENROLLED IN A COURSE OFFERED THROUGH THE AGRICULTURAL EDUCATION DEPARTMENT.

AGRICULTURE COURSES

ES AGRISCIENCE R
Course: 970
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

"Learning by doing" activities provide exposure to various areas of Agri-Science. These include: careers, soils, plant science, horticulture, integrated pest management, animal nutrition, animal physiology, genetics, reproduction, forestry, wildlife management, natural resources and food science. The greenhouse, hydroponics lab, cheesemaking lab and computer lab will be used as laboratories for various activities dealing with soils, plants, animals, food, and horticulture.

ES ANIMAL SCIENCE R
Course: 972
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Learn the anatomical features and functions of animals. Students will study careers with animals, feeding and nutrition, genetics, animal health, reproduction and animal rights/welfare. Have the opportunity to dissect a fetal pig in order to understand mammalian internal anatomy and also perform animal biotechnology experiments.

DC ANIMAL MANAGEMENT PS
Course: 974
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

MID-STATE TECHNICAL COLLEGE

Explore the food animal industry. Examine beef, sheep, swine, and poultry, their breeds, selection and judging, feeding and management, diseases and parasites, housing and equipment and marketing.

NOTE: Students that successfully complete both DC Animal Management (974) and DC Dairy Science (982) can earn Dual Credit from Mid-State Technical College for Introduction to Animal Science #10091102, 3 credits.

ES PLANT & SOIL SCIENCE R
Course: 976
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

An in-depth look at soil origin and development, physical properties, and soil conservation. Use the greenhouse to grow Poinsettias for the holidays. By taking cuttings of houseplants and growing vegetables with state-of-the-art hydroponics equipment, explore plant structure, growth, physiology, reproduction, and management. Participate in the county soils evaluation contest.

***SMALL ANIMAL VETERINARY SCIENCE R**
Course: 980
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Discover the opportunities in the animal industry that range from owning a pet shop to working as a zookeeper, from breeding cats to working with exotic animals. Small Animal Veterinary Science includes: dogs, cats, horses and other companion animals. Breeds, anatomy, proper health care, nutrition, breeding, showing, careers and animal rights/welfare will be explored.

DC DAIRY SCIENCE PS
Course: 982
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

MID-STATE TECHNICAL COLLEGE

Gain knowledge about careers, breeds, record-keeping, reproduction, milk secretion, feeding, housing, diseases, judging, selection and marketing of dairy animals and products. Participate in a field trip to area dairy farms to learn how modern dairies operate, and to test your judging skills.

NOTE: Students that successfully complete both DC Animal Management (974) and DC Dairy Science (982) can earn Dual Credit from Mid-State Technical College for Introduction to Animal Science #10091102, 3 credits.

AGRICULTURE COURSES

DC FORESTRY PS
Course: 984
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Examine the principles behind good forest and woodlot management. Review occupations, lumberjack history, forest products, tree structure and growth, tree identification, tree measurement, silviculture, and chain saw use and safety. Participate in a field trip to the school forest.
NOTE: Students that successfully complete both Forestry (980) and Wildlife Management (986) can earn Dual Credit from Mid-State Technical College for Introduction to Fisheries, Forestry, and Wildlife Resources #10001199, 3 credits.

DC INTRO TO PRECISION AGRICULTURE PS
Course: 985
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

The offering of this new course is subject to Board approval
Investigate and explore the newest developments and technologies in the ever-changing agriculture industry. Investigate how cattle EPD's genomics, and the latest reproductive technologies advance the animal industry. Learn how genetic engineering and other agricultural biotechnology is impacting plant and animal production. Deep dive into the agricultural applications of drone usage, GPS, yield monitoring systems, variable rate technology and mapping. Learn how to operate a drone and interpret thermal imagery maps generated by drones.

DC WILDLIFE MANAGEMENT PS
Course: 986
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Investigate wildlife ecology, habitat management, wildlife regulations and methods of managing wildlife, including hunting, fishing and trapping. Tour area wildlife facilities and complete a fish taxidermy project. Course Fee: Extra taxidermy project, above & beyond the standard curriculum student will be charged "actual" cost of all supplies.

NOTE: Students that successfully complete both Forestry (980) and Wildlife Management (986) can earn Dual Credit from Mid-State Technical College for Introduction to Fisheries, Forestry, and Wildlife Resources #10001199, 3 credits.

DC HORTICULUTRE PS
Course: 988
Credit: 1/2
Duration: Semester
Grades:10-12
Pre-Req: Sophomore Standing
Fee: None

Use the greenhouse extensively for the production of bedding plants. Explore horticultural career opportunities, study basic plant growth and soils, learn about floral arrangements and make one of your own. Practice pruning techniques and develop a landscape plan. Experiment and learn about plant growth with our hydroponics equipment.

NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for DC Horticulture #10001111, 2 credits.

AGRIBUSINESS ENTREPRENEURSHIP R
Course: 989
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Gain personal management and leadership skills essential for a future in the world of agribusiness Study methods for determining profitability, net worth, and inventory values. Explore the many aspects of entrepreneurship, employability skills, and marketing agricultural products and services, while developing a business plan. Learning activities will provide opportunities to develop or enhance your Supervised Agricultural Experience (SAE) by applying for grants, scholarships and completing an FFA Proficiency Award based on your agriculture experience or project.

AGRIBUSINESS CO-OP R
Course: 990
Credit: 2
Duration: Year
Grades: 12
Pre-Req: Senior Standing and Co-op Application
Fee: None

This senior level course consists of classroom instruction and on-the-job training. Classroom instruction will include employability skills and job specific skills. Job placements will be in various areas of agribusiness including: animal science, plant and soil science, horticulture, forestry, natural resources, biotechnology and production agriculture. One credit will be granted for the classroom portion of the course and one credit for successful completion of the on-the-job training.
NOTE: The on-the-job training credit will not be awarded if the classroom portion of the course is not completed with a passing grade.

AGRICULTURE COURSES

YOUTH APPRENTICESHIP
Course: 993 or 994
Credit: 1 per year
Duration: Year
Grades: 11-12
Pre-Req: Junior Standing or Senior Standing application
form and eligible employment
Fee: None

For more information, please see page 16.
Juniors should sign up for course #993
Seniors should sign up for course #994

ART COURSES

DESIGN 1 R
Course: 701
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $10

Students will be introduced to the rigor and highly applicable world of design. Investigations will include career-based explorations. In this course students will learn gestalt (theory of unity) principles and apply them to traditional artistic media. This class is for those who may be interested in careers such as Interior, Graphic, Architectural, Game, Animation, Industrial, and other design fields. Illustrator, Sketchup, and Blender will be used along with presentation mediums. This class will conclude with personal projects designed with instructor.

2-DIMENSIONAL ART PRINCIPLES R
Course: 703
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $10

Using a general focus, students will explore the foundations of 2-Dimensional Arts. Students will be introduced to a variation of media while learning techniques and skills relevant to studio practices. This course is designed for any student who desires a refresher in art or would like to explore multiple 2-dimensional art forms. Mediums used will be chosen from watercolor, prismacolor, pencils, pen and ink, charcoal, pastel, acrylic and printmaking. While investigating their own ideas through the elements and principles of art and design students will explore the vast history of art through specific artists and their work. Specific focus will be paid to spatial reasoning, line, color, and communication. This class serves as a foundation for Drawing, Painting, and Design classes. Students will understand the importance of the visual arts in constructing our shared human experience.

3-DIMENSIONAL ART PRINCIPLES R
Course: 704
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $15

Using a general focus and exploring the history of art, students will explore the foundations of 3-Dimensional Arts. Students will be introduced to variations of media while learning technique and skills relevant to three-dimensional studio practices. This course is designed for any student who desires a refresher in art or would like an introductory exploration of multiple 3-dimensional art forms and materials. Mediums to explore may include plaster, paper, wax, clay, concrete, wire, metal, fibers, stone, and cardboard, and more. While investigating ideas through the elements and principles of art and design, students will explore works of specific artists. This class serves as a foundation for Sculpture, Ceramics, Jewelry/Metal Arts, and Design classes. Students will understand the importance of the visual arts in constructing our shared human experience.

DESIGN 2 H
Course: 705
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: Design 1 (701)
Fee: $10

Students will delve deeper into the highly applicable world of design. Investigations will include advanced design challenges, creating solutions and developing sophisticated design. In this course students will learn how to clearly identify problems and work towards their solution. This class is for those who may be interested in careers in Interior, Graphic, Architectural, Game, Animation, Industrial and other design fields. Various digital rendering programs will be used including a 3-Dimensional modeling program, architectural rendering programs and Adobe Creative Suite. This class will challenge students to identify problems in Design and create solutions that will culminate in a professional presentation.

DESIGN 3 H
Course: 706
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Design 2 (705)
Fee: $10

Students will explore the world of design while applying previous knowledge and skills to pursue their own design ideas. An ability to have personal initiative and to pursue a large design project is a must. Investigations will include advanced design programs; this may include and is not limited to 3-D printing/prototyping, designing architectural works, character design for animation, and exploration into various digital design programs. Concurrently, while pursuing their personal projects they will choose from an advanced design problem provided by the instructor.

ART COURSES

DRAWING 1 R
Course: 707
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $10

Drawing 1 explores basic drawing skills. Students will be introduced to a variety of mediums, which include pencils, pastel chalk, Micron drawing pens, and charcoal. While investigating their own ideas through the elements of design and principles of art and design, students will further explore the ideas of specific artists and their work. This class serves as a foundation for all drawing and painting-based classes. Students will understand the importance of the visual arts in constructing our shared human experience.

PAINTING 1 R
Course: 712
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee $20

The Painting 1 course will introduce students to practice watercolor and acrylics.
Students will use different brushes and techniques to create finished works on paper and canvas. Students will create both realistic and abstract works of art. This class is ideal for students interested in all careers associated to art.

SCULPTURE 1 R
Course: 714
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $15

Students will be introduced to the history of 3-Dimensional Art. Investigations will include traditional methods of sculpting as well as contemporary new media. Students will get a chance to use additive and reductive methods to sculpt. Projects may range from creating your own self-portrait bust or classically inspired work, working in plaster, concrete, paper or cardboard, casting your own hands, and creating work from experimental media.

SCULPTURE 2 H
Course: 715
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: Sculpture 1 (714)
Fee: $15

This course is designed for the student that is interested in pursuing an art career or understanding art at a higher level. Students will use ideas as inspiration and guide in creating modern to contemporary works of sculpture. Projects may range from creating your own video and projections, installations, human scale sized work and creating work from experimental/contemporary media.

DRAWING 2 H
Course: 716
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: Drawing 1 (707) with a final grade of at least a “B”
Fee: $10

Students will refine their skills with a variety of drawing materials in this course. Some materials that may be covered in the semester are: chalk pastel portraiture, printmaking, 2- and 3-point perspective, as well as the study of bones. A variety of artists and art movements will be studied in preparation for each unit.

PAINTING 2 H
Course: 718
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: Painting 1 (712) with a final grade of at least a “B”
Fee: $24

The Painting 2 (Honors) course involves an in-depth exploration of stylistic differences of paintings. We will continue exploring the use of acrylic and watercolor paints as a medium with exploration into classical studies, contemporary practices, and modernism. Students will use their own interests to guide the subject matter within the given projects. Students will assess and critique their own work. Students will be able to have more control in dictating project parameters.

ART COURSES

PAINTING 3 H
Course: 719
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Painting 2 (718) with a final grade of at least a "B"
Fee: $20

The Painting 3 (Honors) course involves a deeper exploration of basic, advanced, and collegiate level conversations in painting. Portraiture, still life and contemporary abstract projects will be designed by students and the instructor. Students will study master artists and develop their abilities in creating traditional illusions. Emphasis will be put on developing your painting voice through technical skill, subject, and interaction with audience. Students will have the opportunity to have more control in dictating project parameters.

CERAMICS 1 R
Course: 720
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $15

Students will learn basic hand building, throwing, trimming, and finishing techniques associated with Ceramics. Students will create a large coil-built vessel and sculpture project. Pinching and slab construction skills will be developed throughout the semester. Additionally, students will learn and practice throwing techniques with and without teacher assistance. This class prepares students for Ceramics 2.

INNOVATIVE FABRICATION R
Course: 722
Credit: ½
Duration: Semester
Grades: 10-12
Pre-Req: None
Fee: $20.00

Art and Tech students will be challenged to find creative solutions to assigned projects. Art and metalworking will be combined to create work that requires technical expertise with inventiveness. Students will create functional and aesthetic objects using techniques ranging from found object assemblage to CNC design. If you are creative and interested in using ferrous metal or if you have an interest in metal tech you are invited to this cross-curricular experience.
NOTE: Students will choose whether this class will count as an art course or a technology education course on their transcripts after the course has begun.
PREREQUISITE: Sophomore standing

CERAMICS 3 H
Course: 724
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Ceramics 2 (725) with a final grade of at least a "B"
Fee: $15

Students will learn studio and collegiate level hand building, throwing, trimming, and finishing techniques associated with Ceramics. As a class we will investigate and learn the subtle language of Ceramics. Aesthetics of good form and intention will be addressed. Students will be introduced to varying techniques from Mexican, Chinese, Japanese, German, English and other world traditions. Artifacts from master level potters will be explored as we develop our skills. Students' personal interest will serve as the focus of techniques learned. This class will culminate in the creation of a full teapot set.

CERAMICS 2 H
Course: 725
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Ceramics 1 (720) with a final grade of at least a "B"
Fee: $15

Students will learn advanced hand building, throwing, trimming, and finishing techniques associated with Ceramics. Building upon what was introduced in Ceramics 1, students will explore varied firing effects, new technical processes and have the choice to make a work of their own choosing. Projects may include decorative storage forms, cup sets, hand built drinking vessels, slab-built vessels, and many others. Students who successfully complete this course with a "B" or higher can enroll in Ceramics 3.

JEWELRY & METAL ARTS 1 R
Course: 726
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $15

Students will create a variety of fabricated and wearable art jewelry using copper, brass, nickel, and sterling silver. Through investigation of multiple jewelry and metal-working techniques, students will learn soldering, torch fire work, metal sawing & metal piercing, cabochon stone-setting, patina applications, oxidation, buffing, polishing, texturing, and color treatments on metal. Students will use fabrication techniques to create wearable pieces of art, including necklaces, rings, bracelets, and earrings.

ART COURSES

JEWELRY & METAL ARTS 2 H
Course: 730
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Jewelry 1 (726) with a final grade of at least a "B"
Fee: $15

Students will continue to refine and expand advanced jewelry making techniques that are built from existing knowledge gained from Jewelry & Metals Arts 1. Through deeper investigation of multiple techniques, students will continue to solder, saw metals, set cabochon, and faceted stones, and create more sophisticated designs using alternative methods of jewelry fabrication. The focus of this advanced course is on exploring new techniques and investigating trends in jewelry & metal arts as well as creating a visual narrative with jewelry forms. Students may choose to create wearable and non-wearable works of art in metal and alternative materials.

AP ART HISTORY PS
Course: 731
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore Standing. Commitment to academic work, strong writing and communication skills are essential, along with academic success in social studies, literature or advanced art courses.
Fee: $30-40

AP Art History is a yearlong course that explores art from the origins of mankind to the contemporary art world. Achieve a wider and more in depth understanding of the world through cultural investigation. Students will be expected to perform at a collegiate level while we explore, analyze, and identify specific works of art and the cultures that created them. This class prepares you for the AP Art History College Exam in the spring and an ever-increasing global economy and culture. One field trip will be taken in the spring to validate and utilize your new Art History knowledge.

JEWELRY & METAL ARTS 3 H
Course: 733
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Jewelry & Metal Arts 2 H (730) with a final grade of at least a "B", instructor's consent
Fee: $15

Students will continue to refine and expand their knowledge of jewelry forms by building off of existing knowledge gained from Jewelry & Metal Arts 2 in a third course of jewelry. Through thoughtful and higher-level investigation, students in Jewelry 3 will create a cohesive body of work focusing on a theme or narrative. This course will encourage students to work in a more sculptural manner with metal fabrication. Students will create a portfolio of work that represents their knowledge of the medium.

DRAWING 3 H
Course: 734
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Drawing 1 and Drawing 2
Fee: $10

In Drawing 3, students will continue to hone their drawing skills. In this course we will begin to select materials and/or subject matter for various units. We will learn more about drawing human anatomy and the independent interests of each student. This course prepares students for AP Drawing.

AP 2-DIMENSIONAL ART PS
Course: 742
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Must have beginning and advanced courses completed with a grade of no lower than an "A" in either drawing, painting, jewelry, or ceramics. Two or more semesters are needed for this course.
Fee: $10

Students will develop a portfolio of 2-Dimensional works continuing from Photography 3 or Design 3. Students will need to develop a sustained investigation and explore different methods and mediums while completing their portfolio of work. These portfolios include 10-15 works from the current school year. The choices of technique, medium, style, form, subject, and content are made by the student in consultation with the teacher.

REQUIREMENTS: Must be an independent thinker and have the ability to work independently. Extensive out of class time commitment is required.
Students must speak to their art teacher if interested in developing a portfolio of work.

ART COURSES

AP 3-DIMENSIONAL ART PS
Course: 743
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Must have beginning and advanced courses completed with a grade of no lower than an "A" in either drawing, painting, jewelry, or ceramics. Two or more semesters are needed for this course.
Fee $15

Students will develop a portfolio of 3-Dimensional works, continuing from Ceramics 3, Jewelry 3, or Sculpture 2. Students will need to develop a sustained investigation and explore different methods and mediums while completing their portfolio of work. These portfolios include 10-15 works from the current school year. The choices of technique, medium, style, form, subject, and content are made by the student in consultation with the teacher.

REQUIREMENTS: Must be an independent thinker and have the ability to work independently. Extensive out of class time commitment is required.
Students must speak to their art teacher if interested in developing a portfolio of work.

AP DRAWING PS
Course: 744
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore Standing. Must have beginning and advanced courses completed with a grade of no lower than an "A" in either drawing, painting, jewelry, or ceramics. Two or more semesters are needed for this course.
Fee: $10

Students will develop a portfolio of drawn or painted works, continuing from sustained investigation and exploring different methods and mediums while completing their portfolio of work. These portfolios include 10-15 works from the current school year. The choices of technique, medium, style, form, subject, and content are made by the student in consultation with the teacher.

REQUIREMENTS: Must be an independent thinker and have the ability to work independently. Extensive out of class time commitment is required.
Students must speak to their art teacher if interested in developing a portfolio of work.

PHOTOGRAPHY 1 R
Course: 745
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $20

Students in Photography 1 will explore the fundamental principles, techniques, and application of digital camera-based image making to create art. Students will also explore post-processing techniques, by using software such as Adobe Photoshop, and Adobe Lightroom to enhance and alter images. A history of the photograph will be emphasized in both its commercial and its creative aspects. We will study how photography has impacted the world, and how artists have used photography as a tool for journalism, documentation, mass media, and artistic expression. Students will use analog and digital photography processes to create photographs as works of art.

PHOTOGRAPHY 2 H
Course: 746
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: Student must have earned a "B" or better in Photography 1(745)
Fee: $20

Students will continue to develop and experiment with digital SLR cameras and computer software to manipulate, edit and refine images. The curriculum for this course includes the advanced use of studio lighting and photographic equipment. With an emphasis on production, this course is designed to develop higher-level thinking, art- related technology skills, art criticism, art history, and aesthetics. Students will express themselves through the themes of studio work, self-portrait, time exposure, and conceptual, narrative, documentary, and photojournalism photography. Students will analyze and critique photographs, discuss aesthetic issues, and relate historical styles in photography to their own work and that of other photographers.

ART COURSES

PHOTOGRAPHY 3 H
Course: 747
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Students must have earned a "B" or better in Photography 2 Honors (746)
Fee: $20

Students will continue to develop advanced technical skill with digital SLR cameras and computer software to manipulate and refine still and moving images. The curriculum for this course includes the inventive use of light and photographic equipment to create complex stories in both still photography and moving imagery/video. With an emphasis on photographic production, this course is designed to develop higher-level thinking, art-related technology skills, art criticism, art history, video experimentation, and aesthetics. Students will develop advanced lighting techniques, layered image production, visual narratives, story boards, video transitions, video projections, and video capture. Students will analyze and critique still and moving imagery, discuss aesthetic issues, and relate historical styles of photography in their own work.

BUSINESS & INFORMATION TECHNOLOGY

WEB DESIGN R
Course: 808
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Learn how to create effective web sites that are attractive and easy to navigate. The course begins with a brief introduction to the Hypertext Markup Language (HTML) and moves into creating and developing a website using Cascading Style Sheet (CSS) to style web pages. Photoshop will be used to design engaging graphics and text that will add interest and function to the web site. For the final course project, students will create a personal website portfolio highlighting their semester work.

COMPUTER APPLICATIONS H
Course: 811
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Become well-prepared for college and career by learning and mastering the MS Office suite focusing on Word, PowerPoint, and Excel. Microsoft Office Specialist certifications will be required as part of the course.
NOTE: Juniors and Seniors are recommended to enroll in this level to meet the graduation requirement.

COMPUTER APPLICATIONS R
Course: 830
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Students need to learn effectively and live productively in an increasingly global and digital world. Become well-prepared for college and career by learning and mastering the MS Office suite focusing on Word, Excel, and professional presentations. Microsoft Office Specialist certification will be offered as part of the course.

COMPUTER APPLICATIONS FOUNDATIONS
Course: 831
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

After completing this required course, students will be able to create professional documents and presentations quickly and easily, using Microsoft Word and PowerPoint. The concepts andskills learned in this class will be used in other high school courses and will transfer to college or the world of work. This course can be taken instead of Computer Applications R or H with the consent of instructor or counselor.
NOTE: Accommodations are made for students with special needs.

ACCOUNTING PRINCIPLES R
Course: 838
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Planning a career in the fields of business, marketing, or finance? Accounting is an essential course for those students interested in studying business at the college or university level. Students learn the procedures involved in the accounting cycle by completing transactions and preparing financial statements. Career opportunities will be explored to see what the future holds for the accounting profession. Accounting is a recommended course in 8 of the 16 Career Clusters. Reliable internet access is required.

DC COLLEGE ACCOUNTING I PS
Course: 845
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior Standing
Fee: None

Accounting is the key to opening the door to the business world and is a required course for all business majors in college. Students will learn the steps in completing the accounting cycle for a sole proprietorship and merchandising business. Topics covered mirror the topics covered in the first semester collegiate courses. This is a preparatory college-level course for students planning to major in any area of business. Accounting careers and the 4+1 CPA option is reviewed. Reliable internet access is required.

BUSINESS & TECHNOLOGY INFORMATION

DC CAPP COLLEGE ACCOUNTING II PS
Course: 846
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior Standing & DC College Accounting I (845)
Fee: See FEE NOTE in Course Description

Add to the concepts learned in the first semester of College Accounting I. Students will learn the steps in completing the accounting cycle for a merchandising business. Topics covered mirror the topics covered in the first semester collegiate courses. This second semester of accounting must be taken in order to receive the 3 credits from UW-Oshkosh and four credits from MSTC.
NOTE: In addition, 3 credits through UW-Oshkosh and dual credit will be granted from MSTC for Accounting I (3 credits) #10101140 upon successful completion of BOTH semesters of DC College Accounting. (Move to DC Acct I)

FEE NOTE: 3 Oshkosh credits = $330.00 paid by the student.

INTRO COMPUTER PROGRAMMING R
Course: 848
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Learn how to program instead of being programmed. Using hands-on learning experiences, you'll explore the fundamentals of computer programming using a variety of programming languages. A rewarding, collaborative and creative learning experience, this course is designed for students with little or no prior programming experience but wish to explore one of the most popular STEM/STEAM fields in terms of jobs outlook and salary in our world today. ***Students who take this class play an integral role in selecting the music and developing animation sequences for a significant portion of the Rotary Winter Wonderland light display each year.***

ADVANCED COMP PROGRAMMING H
Course: 850
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Looking for a competitive advantage in almost any career path? Using hands-on learning experiences, you'll explore the fundamentals of computer programming using a variety of programming languages. A rewarding, challenging, collaborative and creative learning experience, this course digs deeper than Intro Computer Programming and is designed for someone who already knows they want to code. Explore one of the most popular STEM/STEAM fields in terms of jobs outlook and salary in our world today.

DC BUSINESS CORE PS
Course: 851
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior Standing
Fee: None

If you are considering business as a career option, this class is for you. Students will identify forms of business ownership and learn basic concepts in marketing (advertising, pricing, and packaging), human resources, finance, and management. After one semester, students will better understand how and why business decisions are made. Students will also have a better idea of the different areas of business to study if they want to pursue a future business career.
NOTE: In addition, dual credit will be granted from MSTC for Introduction to Business #10102101 3 credits upon successful completion of this course.

BUSINESS & TECHNOLOGY INFORMATION

AP HUMAN GEOGRAPHY/ GLOBALIZATION PS
Course: 858
Credit: 1 (Does not count toward Social Science Graduation required credit)
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

This year-long course provides students with an opportunity to expand their knowledge of our world from a broad, geographical perspective. Students will realize and appreciate the complexities of globalization and think critically about what they see, read, and hear about their world through critical analysis of culture, society, and space. Students are challenged to think geographically across scale and across a wide range of geographical phenomena and global issues. Units of study include population, migration, culture, language, religion, ethnicity, political geography, economic development, industry, agriculture, and urban geography.

INNOVATION AND ENTREPRENEURSHIP R
Course: 852
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Would you like to have your ideas heard and put into action? Then this course is for you. You will be creating new and intuitive ways to solve problems in the home, community, or workplace. You will develop your personal leadership skills and creative thinking abilities by participating in activities that will teach you how to be a successful innovative thinker and manager while learning about the functions and principles of businesses and entrepreneurship. There are no textbooks for life, and there are no textbooks here. More and more people are creating their own jobs every day by taking an idea they have and running with it. Not only learn, but practice putting your idea into action with this course. Students will have various opportunities of presenting their ideas in front of local "sharks" and earn start-up money or compete in National innovative contests creating solutions to real-world problems.

DIGITAL VIDEO & MEDIA PRODUCTIONS I R
Course: 860
Credit: ½
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Ready to elevate your TikTok game and master the art of digital storytelling? Dive into the dynamic world of video and digital media production with this innovative, hands-on course! Explore cutting-edge techniques in pre-production, lighting, sound design, videography, and post-production all while working on real-world projects that blend creativity and technical skills. Personalize your learning experience by stepping into key roles such as producer, director, on-screen talent, and crew member. Collaborate with peers using state-of-the-art software and equipment to create professional-quality media projects for MHS and local businesses. This course offers a unique opportunity to develop industry-relevant skills, explore career paths in media production, and make a lasting impact through your creativity. Don't miss the chance to bring your vision to life and level up your digital media expertise!

BUSINESS & INFORMATION TECHNOLOGY

SPORTS AND EVENT MARKETING R
Course: 880
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Sports are a billion-dollar industry in today's economy. Students will learn to apply marketing principles to the world of multi-million-dollar athletes and entertainers, as well as local sports programs. Strategies to create effective promotions, build sponsorships, and create fan enthusiasm will be developed as students manage an online sports franchise.

AP COMPUTER SCIENCE A PS
Course: 887
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Advanced Computer Programming (850) or AP Computer Science Principles PS (888), sophomore standing
Fee: None

Learn college-level programming using Java programming language. Concepts included are structured Java programming style, assignment and logical operators, decision-making, looping, functions, and arrays. Also learn the concepts of data structures, classes, inheritance, recursion, and other advanced topics using an object-oriented approach. Students may seek college credit by taking the Advanced Placement Examination in May.

AP COMPUTER SCIENCE PRINCIPLES PS
Course: 888
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: freshman with instructor's consent Fee: None

You don't need an advanced understanding of coding to be successful in this course. APCSP is an introductory level course meant for all students. During this course, you'll learn the principles that support the science of computing and develop thinking skills computer scientists use. You'll work individually and as part of a team to creatively address real-world issues using the tools and processes of computation.
AP Computer Science Principles is a course that encompasses a wide range of topics. When you take APCSP, you'll learn the underlying principles of computing and the computational thinking skills computer scientists use daily, including: designing a program to solve a problem, analyzing computational work, communicating ideas about technology, working collaboratively to address real-world issues.

DC BUSINESS & INFORMATION TECHNOLOGY CAPSTONE PS
Course: 892
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior Standing
Fee: None

MID-STATE TECHNICAL COLLEGE

This course is designed for students interested in taking their B & IT skills to the next level. Students will work with the teacher to decide on the pathway(s) they will complete. Students will be expected to work individually and collaboratively in small groups and create leadership and task-oriented guidelines to further their understanding of their chosen pathway. Projects will vary based upon student/team interest and will revolve around any number of Information Technology/Computer Science or Business/Finance/Marketing fields.
NOTE: In addition, dual credit may be granted from MSTC for Microsoft Office-Introduction #10-103-106 3 credits upon successful completion of this course.

BUSINESS & TECHNOLOGY INFORMATION

GAME PROGRAMMING H
Course: 894
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Advanced Programming H (850) or AP
Computer Science Principles (888)
Fee: None

What does it take to be a game developer? This course provides students with an understanding of the principles and concepts of video game development, animation, and app development processes. Students will learn game design theory, animation techniques, and app development processes using state-of-the-art integrated development environments. Students design and develop games, analyze popular games, and learn about various aspects of the game industry. This is a project-based course providing students with several hands-on experiences, providing insight as to what it takes to be a game programmer in today's world.

DC CAPP FINANCIAL LITERACY PS
Course: 847
Credit: ½
Duration: Semester
Grades: 11-12
Pre-Req: Junior Standing, 2.75 GPA

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OSHKOSH

This course will fulfill the Personal Finance requirement for graduation. DC CAPP Financial Literacy is a rigorous college-level course preparing students for their financial future. In addition to more rigorous content, students will study the major financial decisions encountered by individuals. Topics include: budgeting, use of credit, automobile and consumer durables, insurance, the housing decision including rental lease agreements, taxes, retirement planning, estate transfer, and investments. Each subject is analyzed within the context of a comprehensive framework of planning. Students will gain experience with financial software applications, such as spreadsheets as well as web and mobile tools (ex. Mint, mobile/online banking apps, etc.). Finally, the course will focus on financial career options through guest speakers and interactions with professionals in the field of finance. Participation in the CAPP program is an individual option and requires a fee for the tuition payable to the university.

NOTE: Participants who successfully complete the course receive three college credits through UW-Oshkosh in addition to the high school credit if enrolled in the CAPP Program.

YOUTH APPRENTICESHIP
Course: 993 or 994
Credit: 1 per year
Duration: Year
Grades 11-12
Pre-Req: Junior Standing or Senior Standing, application form and eligible employment
Fee: None

For more information, please see page 16.
Juniors should sign up for course #993
Seniors should sign up for course #994

ENGLISH COURSES

Freshman: English I Foundations, English I R or English I H
(1 credit required)

Semester Electives

1. Speech I R
2. Drama R
3. Advanced Drama H
4. Creative Writing R

Sophomore: English II Foundations, English II R, English II H, AP English Seminar PS or AP English: Language & Composition PS (1 credit required)

Semester Electives

1. Speech I R
2. Drama R
3. Advanced Drama H
4. Creative Writing R

Junior: English III Foundations, English III R, English III H, Interpersonal Communications, AP English: Language & Composition PS, AP English: Literature and Composition PS
(1 credit required)

Semester Electives

1. Speech I R
2. Drama R
3. Advanced Drama H
4. Creative Writing R

Senior: Students must choose one of the following year-long courses or two of the semester courses:
(1 credit required)

Year-long Courses

1. AP English: Literature and Composition PS
2. AP English: Language and Composition PS
3. English IV R
4. DC Written Communication PS
5. Interpersonal Communication R
6. English IV Foundations
7.

Semester Electives

1. Speech I R
2. Drama R
3. Creative Writing R
4. Advanced Drama H

ENGLISH COURSES

ENGLISH I FOUNDATIONS
Course: 400
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Teacher/Counselor Recommendation
Fee: None

Meeting deadlines and demonstrating personal responsibility are critical expectations, as students develop life-long qualities in becoming successful students.
Students will study short stories, the novel, nonfiction, and poetry, utilizing note-taking strategies to develop skills to track literary elements used across all units of study, for vocabulary enrichment, and to infer the main idea, author's purpose, and audience.
Using the writing process, students will produce creative and expository writing. Additionally, students will conduct independent formal and informal research to produce unit projects which will be presented orally, demonstrating sound public speaking skills.
Students in this course will be mindful of their ultimate goal of building reading skills and improving reading levels to eventually leave the essentials track. This course focuses on increasing core area skills of reading, writing and thinking in students who struggle academically. Placement in this course is made using multiple measures of student achievement.

ENGLISH I R
Course: 401
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

Meeting deadlines and demonstrating personal responsibility are critical expectations, as students develop life-long qualities in becoming successful students.
Students will study short stories, the novel, nonfiction, and poetry, utilizing note-taking strategies to develop skills to track literary elements used across all units of study, for vocabulary enrichment, and to infer the main idea, author's purpose, and audience.
Using the writing process, students will produce creative and expository writing. Additionally, students will conduct independent formal and informal research to produce unit projects which will be presented orally, demonstrating sound public speaking skills.
NOTE: This course is NCAA approved.

ENGLISH I H
Course: 402
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

Students will study various genres of literature, including choice texts and develop note-taking strategies to examine literary elements, make connections, and identify the main idea, key supporting details, and purpose.
Using the writing process, students will produce creative, expository, and analytical writing. Students will also eliminate redundancy while writing for a specific purpose using succinct language and smooth transitions. Additionally, students will conduct independent formal and informal research to produce multi-genre projects which will be presented orally, demonstrating sound public speaking skills.
REQUIREMENTS: Independent reading, personal responsibility and participation in class discussion are expected. Formal and informal research projects are required.
NOTE: This course is NCAA approved.

ENGLISH II FOUNDATIONS
Course: 405
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: English I Foundations and/or teacher recommendation
Fee: None

Meeting deadlines and demonstrating personal responsibility are critical expectations, as students develop life-long qualities in becoming successful students. Students will study short stories, the novel, nonfiction and poetry, utilizing note-taking strategies to develop skills to track literacy elements used across all units for study, for vocabulary enrichment, and to infer the main idea, author's purpose and audience. Using the writing process, students will produce narrative and expository writing. Additionally, students will conduct independent formal and informal research to produce unit projects which will be presented orally, demonstrating sound public speaking skills. Students in this course will be mindful of their ultimate goal of building reading skills and improving reading levels to eventually leave the essentials track. This course focuses on increasing core area skills of reading, writing, and thinking in students who struggle academically. Placement in this course is made using multiple measures of student achievement.

ENGLISH COURSES

ENGLISH II R
Course: 406
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: English I
Fee: None

Focus on the craft of writing, both through practice and through analysis of nonfiction pieces and novel study. Students will read a wide-ranging variety of nonfiction: essays, speeches, articles, op-ed, cartoons, etc. Topics will be drawn from global perspectives and will center on the themes of the Reading/Writing Connection, Building Relationships, Ongoing Social Issues/Criticism, Understanding Self, Independence and Freedom, and Of Myself and Others. Students will understand how professional writers use language to convey ideas and students will apply those same language ideas to their own writing. Students will continue to develop analytical reading and writing skills. Students will study research skills in terms of bias, summary writing, and paraphrasing and quotation skills.
NOTE: This course is NCAA approved.

ENGLISH II H
Course: 407
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Teacher Recommendation strongly encouraged
Fee: None

Students taking this class are to be highly motivated and have strong English skills which will be further developed at an accelerated pace. Meeting deadlines and demonstrating personal responsibility while independently reading assigned literature and composing assigned written responses are critical expectations, as students develop life-long qualities in becoming successful students.
Focus on the craft of writing, both through practice and through analysis of nonfiction pieces and novel study. Students will read a wide-ranging variety of nonfiction: essays, speeches, articles, op-ed, cartoons, etc. Students will understand how professional writers use language to convey ideas and students will apply those same language ideas to their own writing. Students will continue to develop analytical reading and writing skills. Students will complete an academic research paper in this course.
REQUIREMENTS: Independent reading, personal responsibility, and participation in class discussion is expected.
NOTE: This course is NCAA approved.

ENGLISH III FOUNDATIONS
Course: 410
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: English II Foundations and/or teacher recommendation
Fee: None

This course is intended for juniors who need a modified English course. The goal of the course will be to prepare students in the areas of reading, writing, speaking, listening, teaming, and using media and technology for the English courses required at a technical/two- year school or for those students going directly into the work force.

ENGLISH III R
Course: 411
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: English II
Fee: None

This is a third-year course in English at the high school level. Students will refine and extend their writing skills. In addition, students will read some of the influential writers of the American canon and examine their subsequent impact on culture. Students in the English III R will read a minimum of six texts, and students in English III H will read a minimum of seven texts. All students will write a minimum of six essays.
NOTE: This course is NCAA approved.

ENGLISH COURSES

ENGLISH III H
Course: 412
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: English II
Fee: None

This is a third-year course in English at the high school level. Students will refine and extend their research, presentation, group communication, and writing skills and work on the creative process for improving writing, speaking, and discussion skills. In addition, students will read some of the influential writers of the American canon and examine their subsequent impact on culture, as well as voices who are considered shadow narratives in American culture (marginalized groups). Students in the English III H will read a minimum of five texts or various genres and literary movements, in addition to studying an American Drama, poetry, scholarly articles and short story samples. All students will write a minimum of four essays of varying styles and points of view. Special emphasis is also placed on career planning, including writing a resume, preparing for the ACT, researching colleges, and examining college application requirements.
REQUIREMENTS: Read 5-6 novels during the course of the year. Most of this reading will be done outside of class. Write 3-5 analytical and narrative essays, two group projects/presentations. Participation in class is mandatory.
NOTE: This course is NCAA approved.

INTERPERSONAL COMMUNICATION R
Course: 413
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Junior Standing
Fee: None

Whether individuals are introverted or extroverted, being a skilled communicator is essential to one's success. This course focuses on self-growth in understanding one's personal communication abilities, assessing strengths, and building any communication deficiencies. It is designed for students who seek technical college experience or an immediate career post high school. Units are planned with learning opportunities for students to better understand and grow their communication, identities, gain confidence, and develop their listening, speaking and verbal and non-verbal communication skills. Learning targets and course competencies will be implemented through self-reflection practices, teamwork activities, leadership roles, and realistic simulation scenarios to prepare for future experiences. The goal of this course is to ensure students are strong communicators for success in their community, workplace, and/or technical college.

ENGLISH IV R
Course: 419
Credit: 1
Duration: Year
Grades: 12
Pre-Req: Senior Standing
Fee: None

This course is designed for high school seniors entering college, technical college, or the workforce after high school. Students will assess and analyze a variety of material, including novels, plays, poetry, essays, short stories, articles, and films. Emphasis will be placed on evidence-based writing and critical thinking skills utilized during analysis. Students can expect to read, write, and develop skills that are directly applicable to life after high school. This course would be the equivalent of a senior regulars English course, geared towards preparing students in the areas of reading, writing, speaking, listening, and teaming for English courses required at a technical/two year school, a four year university, or for students going directly into the work force. Students will continue to develop analytical reading and writing skills. Students will complete an academic research paper in this course.
NOTE: This course is NCAA approved.

ENGLISH COURSES

ENGLISH IV FOUNDATIONS
Course: 420
Credit: 1
Duration: Year
Grades: 12
Pre-Req: Teacher and/or Counselor Recommendation
Fee: None

This course is intended for seniors who need a modified English class. The goal of the course will be to prepare students in the areas of reading, writing, speaking, listening, teaming, and using media and technology for the English courses required at a technical/two-year school or for those students going directly into the work force.

AP ENGLISH: LITERATURE & COMPOSITION PS
Course: 425
Credit: 1
Duration: Year
Grades: 11-12 and a willingness and ability to work diligently at an increased pace with rigorous materials.
Pre-Req: Junior Standing
Fee: None

Participate in advanced work in the areas of close reading, critical thinking, literary analysis, discussion, writing, and advanced-placement-style objective examinations. This course requires in-depth reading and discussion of several texts (including choice novels deemed appropriate for college bound students) drawn from multiple genres, periods, and cultures. Writing instruction will promote developing a defensible claim, clear ideas, and textual support. Attention to language, contrast, character, setting, and perspective are emphasized.
REQUIREMENTS: Independent reading, personal responsibility and participation in class discussion is expected.
NOTE: This course is NCAA approved.

AP ENGLISH: LANGUAGE & COMPOSITION PS
Course: 426
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Read and examine a minimum of seven texts including novels, dramas, and nonfiction. Also, expect to read and analyze a wide variety of short stories and essays, with an emphasis on satire. Course work emphasizes process writing first semester and then practice of written analysis under timed conditions during second semester. Applications will ask student to:

- examine and evaluate denotation and connotation of diction.
- identify and apply conventions in writing including:
  - a balance of generalization and specific illustrative detail.
  - a variety of sentence structures, including appropriate and effective use of subordination and coordination.
  - an organizational strategy enhanced by techniques such as thesis statements, topic sentences, transitions, and consistent point-of-view.
  - application of standardized American grammar, usage, and mechanical conventions.
- analyze how diction, syntax, and figurative language develop tone and reveal purpose.
- interpret complex prose.

Students are offered the opportunity to purchase trade books so students may annotate and index. Students do not have to purchase the texts since there are copies available; however, students may not write in these copies. The cost of the trade books varies due to publisher price increases. Checks should be made to Marshfield High School.
*Course Fees: All students in this course are strongly urged to take the Advanced Placement Examination for college credit.
REQUIREMENTS: Read and analyze a minimum of seven texts. Write at least three to four essays per quarter.
NOTE: This course is NCAA approved.

CREATIVE WRITING R
Course: 428
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Use the writing process to create poetry, personal narrative, short story, character sketch, personal essay, dialogue, oral interpretation and criticism. Study and create pieces that focus on specific literary elements to build strong overall pieces. Learn to critique others, edit and publish. Create and present a writing portfolio. This is a course for the creative student who wishes to grow as a writer, and is willing to experiment with new writing styles and content.
NOTE: This course is NCAA approved.

ENGLISH COURSES

DC WRITTEN COMMUNICATION PS
Course: 431
Credit: 1
Duration: Year
Grades: 12
Pre-Req: Senior Standing
Fee: None

This course is designed to develop writing skills which include prewriting, drafting, revising, and editing and to prepare students for both the workplace and technical college writing. Students write a minimum of 6 essays including the expository essay, narrative essay, process analysis essay, summary report, scholarship essay writing and a persuasive research essay. Assignments are designed to help the learner analyze audience and purpose, research and organize ideas and format and design documents based on subject matter and content related to career interests. Grammar and mechanics are also studied throughout the year.
NOTE: Students who opt to enroll in this course for dual enrollment and successfully complete this course can earn Dual Credit from Mid-State Technical College for 10-801-136 English Composition 1, 3 credits.
NOTE: This course is NCAA approved.

AP SEMINAR ENGLISH PS
Course: 432
Credit: 1
Duration: Year
Grades: 10
Pre-Req: Teacher Recommendation strongly encouraged
Fee: None

This course is being offered as a pilot program
AP Seminar is a foundational course that engages students in cross curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquire framework, students practice reading and analyzing articles, research studies, and foundational, literacy and philosophical text; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as a part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision to craft and communicate evidence-based arguments.
REQUIREMENTS: Independent reading, personal responsibility, and participation in class discussion is expected.
COURSE FEES: All students in this course are strongly urged to take the Advanced Placement Examination
NOTE: This course is NCAA approved.

DRAMA R
Course: 437
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

So much more than acting, this course will provide a broad overview of what constitutes "drama" and "theatre." Learn about the roots and rich history of theatre; experience the basics of acting, including warm-up routines, acting exercises, and how to create character. Become familiar with the spectrum of theatre study and careers in theatre. Understand the technical components of theatre production and gain insight into theatre's counterparts, including radio, film, and television. Expect a mix of textbook study, on-your-feet participation activities, current articles, and video clips that bring the theatre world to the classroom.

ADVANCED DRAMA H
Course: 438
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: Successful completion of Drama (437) at least one semester prior or instructor's consent
Fee: None

Encounter an in-depth study of performance and musical theatre, and learn about the technical aspects of lighting, sound, construction, design, costuming, stage management, prop creation, script analysis and music study. This course offers students the opportunity to delve deeper into elements of the theatre that were only briefly discussed in Drama and discover an interest area that will allow the student to create a project-based assessment within the theatre. Students will also research a specific show of interest, apply dramaturgy to the script, and assist with elements of the musical/play after passing safety protocol with sound/lights and construction.

ENGLISH COURSES

SPEECH I: INTRODUCTION TO SPEAKING R
Course: 440
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

What is communication? In this course, gain experience in and control of informal, formal, and nonverbal communication:

- Learn and practice the essentials of speech building and delivery.
- Practice the art of listening and become a more discerning evaluator of public and mass communication.
- Recognize the role of personal speeches and learn how to handle speech anxiety.
- Develop audience awareness and their role in the relationship between message and receiver.
- Find your voice through informative, persuasive, and occasion-based speech activities.
- Discover the art of speech as a social experience.

Know that speech writing and delivery are absolute expectations; this is not a class for the passive learner.
NOTE: This course is NCAA approved.

MTSS READING INTERVENTION R
Course: 445
Credit: 1/2 or 1
Duration: Semester or Year
Grades: 9-12
Pre-Req: This course is for students who have been identified by district screening measures
Fee: None

This Course is a Tier 2 intervention in which students will learn skills and strategies designed to support deficiencies in their reading skills. This course will emphasize the mastery and use of transferable reading strategies and skills that students may use with reading material from any of their content-area courses. The course will begin with an assessment to determine which areas of students' reading skills need the most support. Lessons and skills taught will be centered on the results of assessment data and student-identified interests and needs.

FAMILY & CONSUMER SCIENCES

CAREGIVING AND COMMUNITY R
Course: 780
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Create a more caring school, community and society for youth, special needs people and senior adults. Observe and interact with people in the Tiny Tiger Intergenerational Center while learning the meaning of "giving" and "caring".

CONNECTING GENERATIONS R
Course: 781
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Gain knowledge of working with individuals from age 1 to 100, while investigating how aging affects people and their families. Identify the benefits of intergenerational care and spend time interacting with children and their "grandfriends" in the Tiny Tiger Intergenerational Center.

FOOD, FAMILY & SOCIETY R
Course: 782
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $10

Why do we eat what we eat? Understand food-related concerns such as providing for your family, availability, nutrition, and the impact of food on our society. Investigate common misconceptions about food consumption and be involved in food labs.
NOTE: In this course students may be exposed to peanuts, tree nuts and other food allergens.

FOOD SCIENCE R
Course: 783
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $10

Do you know what you are eating? In this course, students will analyze the composition of food, take the opportunity to evaluate the effects of food on our bodies as well as form conclusions about nutrition-related claims in the media. Students will participate in weekly food lab experiences.
NOTE: In this course students may be exposed to peanuts, tree nuts and other food allergens.

DC FOOD AND HOSPITALITY PS
Course: 784
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: None
Fee: $10

Gain knowledge of and practice the skills necessary for success in the food service industry by participating in food service simulations while developing skills needed for the workplace. Young adults in this course will also develop the problem-solving skills that are needed to become resourceful food service employees while examining trends that affect the hospitality industry.
NOTE: In this course students may be exposed to peanuts, tree nuts and other food allergens.

CAREER PATHWAYS R
Course: 785
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Practice "soft" skills such as honesty, respect, and responsibility, interact with post-secondary educators and professionals and investigate career options in 16 career pathways. Thoughtful reflection and career exploration will result in decision making skills that will be beneficial when students select continuing education and career options.

FAMILY & CONSUMER SCIENCES

FAMILY DYNAMICS R
Course: 786
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Investigate answers to these questions: What does "family" mean? What is your role as a family member? How can you better cope with a crisis and its effects on the family? Gain a better understanding of family related concerns.

DC PARENTS AND CHILDREN PS
Course: 788
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Establish healthy parent-child relationships, explore the responsibilities of parenting, and gain the skills necessary to make one of the most important decisions of life. Young adults in this course will also develop the problem-solving skills that are needed to become resourceful, responsible parents.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Infant & Toddler Development #10307151, 3 credits

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FUTURE TEACHER INTERNSHIP R
Course: 789
Credit: 1
Duration: Semester
Grades: 12
Pre-Req: Suggested pre-req course is Careers with Kids (790)
Fee: None

Students will have the opportunity to volunteer with a teacher(s) in various classroom settings to investigate career options in the Education and Training Career Cluster – Teaching/Training Pathway. In addition to hands-on experience in an assigned classroom, students will attend seminars on tutoring, applying to the university, collaborating with other future teacher interns, learning about professional organizations and professional learning communities, interacting with students, collaborating with mentor teacher(s), and meeting program learning targets.

DC CAREERS WITH KIDS PS
Course: 790
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior Standing or age 17 at the beginning of the school year.
Fee: None

Learn about a variety of careers working with young children. Gain knowledge of child development and practice skills in child-care and guidance. Plan and implement activities with children in the Tiny Tiger Intergenerational Center. Students will earn the Assistant Child Care Teacher certificate which is necessary for employment in a childcare facility. Students will also earn certificates for SIDS, SBS, Mandated Reporter and Darkness to Light training.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Health, Safety, and Nutrition #10307167, 3 credits & Foundations of Early Childhood #10307148, 3 credits.

DC MEDICAL TERMINOLOGY PS
Course: 793
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Gain knowledge of medical terminology while learning the operative, diagnostic, therapeutic and symptomatic terminology of all body systems.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Medical Terminology #10501101, 3 credits.

CONSUMER AND PERSONAL FINANCE R
Course: 794
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior Standing
Fee: None

Through a series of simulations, projects, and teamwork activities, students will prepare for their personal lives while becoming economically responsible. Areas of study will include fundamental economics concepts, personal financial planning; financial pitfalls, budgeting, income and money management (checking, savings, money market accounts), spending, mortgages, student loans, credit and debt management, asset/insurance protection, financial statements, payroll, retirement planning, taxation, consumer practices and purchases: rights, responsibilities and decision-making processes. In each unit of the course, essential math and literacy skills will be emphasized.
NOTE: This course is required for graduation.

FAMILY & CONSUMER SCIENCES

HEALTH CAREER CONNECTIONS R
Course: 796
Credit: 2
Duration: Year
Grades: 12
Pre-Req: Suggested pre-req courses included Medical Terminology (793), Medical Professionalism (797) and Anatomy & Physiology (113 or 114)
Fee: None

Health Career Connections offers unpaid internships during the school day designed to familiarize students with the various careers in the medical profession. Students are scheduled at various health care facilities to learn more about different areas of the health care field, skills needed to work in health care, career pathways of medical professionals, and more. Nursing Assistant certification is highly recommended between junior and senior year through the technical college system (tuition and books are paid for by the school district).

NOTE: To apply for Health Career Connections you must complete a program application available through the Jobready WBL app in My Apps or hard copy available in the school counseling office and interview with employers in the Winter of your junior year.

MEDICAL PROFESSIONALISM R
Course: 797
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

In this course, students approach specific issues in biomedical ethics by making use of theories and applying them to the real world. We will explore career options and pathways specific to the healthcare industry. Students will examine the ethical and social issues surrounding the practice of medicine, in particular the relationship between patient and healthcare provider. This course is required for many allied health programs at MSTC.

SPORTS MEDICINE INTERNSHIP R
Course: 799
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: None
Fee: None

Complete Canvas online modules and volunteer as an Athletic Training Student Aide for 5 hours at athletic games and practices. During your volunteer hours, you will be assisting the Licensed Athletic Trainer (LAT) in caring for injured athletes, monitoring rehabilitation exercises as directed by the LAT, preparing medical kits, and reviewing/maintaining medical records.

YOUTH APPRENTICESHIP
Course: 993 or 994
Credit: 1 per year
Duration: Year
Grades: 11-12
Pre-Req: Junior or Senior standing, application form
and eligible employment
Fee: None

For more information, please see page 15.
Mrs. Fredrick will register Level 1 students for course #993.
Mrs. Fredrick will register Level 2 students for course #994.

DC WORK BASED LEARNING I (996)
WORK BASED LEARNING II (997)

For more information, please see page 15.

MATHEMATICS COURSES

TYPICAL MATH PATHWAYS
MARSHFIELD GRADES 7-12

Technical College
Strong Preparation
7- Grade 7 Math
8- Grade 8 Math
9- Algebra 1 R
10- Geometry R/H
11 Algebra 2 R/H
12- Math 107 H then DC Math 118 PS or DC Technical Math 2

Technical College
Typical Preparation
7- Grade 7 Math
8- Grade 8 Math
9- Algebra 1 R
10- Geometry R
11- Algebra 2 R or DC Technical Math 1
12- DC Technical Math 2

Technical College
Minimum Preparation
7- Grade 7 Math
8- Grade 8 Math
9- Pre-Algebra R
10- Algebra 1 Essential Concepts R or Algebra 1 R
11- Geometry Essential Concepts R or Geometry R
12- DC Technical Math 1

These pathways are examples of the sequencing of math classes, and are intended as a guide in planning course selection. Other pathways are possible. Please consult a counselor or math instructor if you have questions.

Four Year University
Strong Preparation- Option 1
7- Grade 7 Advanced Math
8- Algebra 1 R
9- Geometry R/H
10- Algebra 2 R/H
11- AP Pre-Calculus PS and/or DC/AP Statistics PS
12- AP Calculus PS AB/BC and or DC/AP Statistics PS

Four Year University
Strong Preparation- Option 2
7- Grade 7 Advanced Math or Grade 7 Math
8- Grade 8 Advanced Math or Grade 8 Math
9- Algebra 1 R
10- Geometry R/H and Algebra 2 R/H
11- AP Pre-Calculus PS and/or AP Statistics PS
12- AP Calculus PS AB/BC and/or DC/AP Statistics PS

Four Year University
Typical Preparation
7- Grade 7 Math
8- Grade 8 Math
9- Algebra 1 R
10- Geometry R/H
11- Algebra 2 R/H
12- Math 107 H then DC Math 118 PS or
AP Pre-Calculus PS

Four Year University
Minimum Preparation- Option 1
7- Grade 7 Math
8- Grade 8 Math
9- Algebra 1 R
10- Geometry R/H
11- Algebra 2 R/H
12- DC Technical Math 2

Four Year University
Minimum Preparation- Option 2
7- Grade 7 Math
8- Grade 8 Math
9- Pre-Algebra R
10- Algebra 1 R
11- Geometry R
12- Algebra 2 R

MATHEMATICS COURSES

PRE-ALGEBRA R
Course: 201
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Grade 8 Math
Fee: None

This course requires administrative approval, teacher recommendation, and data analysis to register.
Pre-Algebra is an entry level math course designed for learners who need extra support in developing their foundational math skills by focusing on the essential algebraic concepts and skills necessary for further math study. Students will learn Pre-Algebra standards. **NOTE: A scientific calculator is required for this course**
NOTE: This course is not NCAA approved.

ALGEBRA 1 ESSENTIAL CONCEPTS R
Course: 202
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Grade 8 Math or Pre-Algebra R (201)
Fee: None

This course requires administrative approval, teacher recommendation and data analysis to register.
This course is designed for learners who are ready for Algebra 1 R but at a reduced pace and depth of knowledge. This course will introduce learners to algebraic theory and provide practice in application. Learners will develop the essential geometric concepts and skills necessary for further math study. **NOTE: A scientific calculator is required for this course.**
NOTE: This course is not NCAA approved.

GEOMETRY ESSENTIAL CONCEPTS R
Course: 203
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Algebra I Essential Concepts R (202) or Algebra 1 (205)
Fee: None

This course requires administrative approval, teacher recommendation, and data analysis to register.
This course is designed for learners who are ready for Geometry but at a reduced pace and depth of knowledge. This course will introduce learners to geometric theory and provide practice in application. Learners will develop the essential geometric concepts and skills necessary for further math study.
NOTE: A scientific calculator is required for this course.
NOTE: This course is not NCAA approved.

ALGEBRA 1 R
Course: 205
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Grade 8 Math or Pre-Algebra (201)
Fee: None

Algebra is the gateway course for all advanced mathematics. It is a necessity for study in the sciences and a pre-requisite for college and technical college education. Emphasis is placed on algebraic symbols and properties, mathematical expressions and statements, functions and graphs, and real-world applications. The successful completion of this course is recommended for admission to universities and some technical colleges.
NOTE: A scientific calculator is required for this course.
NOTE: This course is NCAA approved.

MATHEMATICS COURSES

ALGEBRA 2 R
Course: 207
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Geometry R (211) or Geometry H (212) or
Fee: None

In this course, learners will revisit key concepts from Algebra and Geometry, building upon students' prior knowledge to develop more advanced understanding of algebraic relationships. Emphasis will be placed upon multiple representations of functions (algebraic, graphic, tabular, and descriptive) and application of those functions in a variety of situations. The successful completion of this course is recommended for admission to universities and technical colleges.
NOTE: A graphing calculator is highly recommended, a scientific calculator is required.
NOTE: This course is NCAA approved.

ALGEBRA 2 H
Course: 208
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Geometry H (212) Geometry R (211) with instructor's
consent
Fee: None

Algebra 2 Honors is a rigorous mathematics course with intermediate and college level algebra topics. Learners will build upon prior knowledge from Algebra and Geometry while covering all the topics from Algebra 2 but with a deeper and more thorough emphasis on most topics. Strong algebra skills are essential for students enrolling in this course. **REQUIREMENTS: This course is for the student with skills and motivation to take on an accelerated and more rigorous Algebra 2 curriculum. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. A considerable amount of time on homework is expected outside of class.**
NOTE: A graphing calculator is required for this course.
NOTE: This course is NCAA approved.

MATH 107 INTERMEDIATE ALGEBRA H
Course: 209
Credit: 1/2
Duration: Semester
Grades: 12
Pre-Req: Senior Standing and completion of three credits of NCAA approved high school math
Fee: None

Although not a dual-credit course, Math 107-Intermediate Algebra Honors reviews the topics that students need to be proficient in before taking College Algebra and the University Math Placement exam. This course emphasizes algebraic techniques with polynomials, rational expressions, exponents and radicals, linear and quadratic equations, inequalities. Introduction to functions, their graphics and analytic geometry. Note: This is only offered in the fall semester. All students who sign up for this course may sit for the UW System Placement test in Mathematics to place into Math 118. This course will help students prepare for the UW System Placement test in Mathematics. This class meets for one semester.
NOTE: A scientific calculator and a graphing calculator are required for this course.
NOTE: This course is NCAA approved.

DC MATH 118 PRECALCULUS ALGEBRA PS
Course: 210
Credit: 1/2
Duration: Semester
Grades: 12
Pre-Req: Senior standing and completion of three credits of NCAA approved high school math and Math 107 H (209) or teacher recommendation
Fee: None

Math 118 is a dual credit course that students must have tested into through the UW Math Placement Exam in order to take for college credit. Major topics include definition of function, linear and non-linear functions, and graphs including logarithmic and exponential functions; systems of linear equations; theory of polynomial equations and optional topics such as mathematical induction, matrix solution of linear systems and Cramer's rule. Course fees: If second attempt is necessary for UW-Placement Exam, estimated cost is $30.
NOTE: This is only offered in the spring semester. Students must have tested into Math 118 through the UW Math Placement Exam to take Math 118 for college credit. Students may opt to take Math 118 solely for high school credit under the UW grading policy.

NOTE: A scientific and graphing calculator are required for this course.
NOTE: This course is NCAA approved.

MATHEMATICS COURSES

GEOMETRY R
Course: 211
Credit: 1 Duration:
Year Grades: 9-12
Pre-Req: Algebra 1 R (205)
Fee: None

This course is the exploration and investigation of various geometric shapes and their properties. Learners will use geometric terminology and notation to describe 2-D and 3-D objects; apply properties of polygons and circles; use formulas to calculate length, angle measure, midpoint, slope, area, and volume; geometric properties and learn to construct basic algebraic and geometry proofs. A good background in algebra is essential for successful work in geometry. The successful completion of this course is recommended for admission to most universities and some technical colleges.
NOTE: A calculator is required for this course. It may be a scientific or graphing calculator.
NOTE: This course is NCAA approved.

GEOMETRY H
Course: 212
Credit: 1 Duration:
Year Grades: 9-12
Pre-Req: Grade of at least "B" in Algebra 1 R (205).
Fee: None

Geometry Honors is a rigorous mathematics course with intermediate and college level geometry topics. This course covers all the topics from Geometry but with a deeper and more thorough emphasis on most topics along with a greater emphasis on proof writing. Topics covered include plane and solid geometry, apply theorems while developing logical reasoning and problem solving through original proofs, non-routing problems, and an introduction to analytic geometry. Geometry theory is emphasized.
REQUIREMENTS: This course emphasizes the theory of geometric concepts. Students will examine and write proofs frequently. Students are expected to participate in class, complete daily assignments, projects, quizzes, and tests. A considerable amount of time on homework is expected outside of class.
NOTE: A calculator is required for this course. It may be a scientific or graphing calculator.
NOTE: This course is NCAA approved.

AP PRE-CALCULUS PS
Course: 220
Credit: 1
Grades: 10-12
Pre-Req: Successful completion of Algebra 2 H or Algebra 2 R with a B or better
Fee: None

AP Pre-Calculus PS prepares learners for other college-level mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. Learners study each function type through their graphical, numerical, verbal, and analytical representations and their application in a variety of contexts. Furthermore, learners apply their understanding of functions by constructing and validating appropriate function models for scenarios, sets of conditions, and data sets, thereby gaining a deeper understanding of the nature and behavior of each function type.
NOTE: A graphing calculator is required for this course.
NOTE: If electing for the AP credit option, students will pay for the AP exam.
NOTE: This course is NCAA approved course.

AP CALCULUS AB PS
Course: 221
Credit: 1 Duration:
Year Grades: 11-12
Pre-Req: Pre-Calculus AB H (218) or Pre-Calculus BC H (219)
Fee: None

AP Calculus AB PS is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, indefinite and definite integrals, applications of derivatives and integrals, slope fields, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.
REQUIREMENT: This is a college level course that covers the material of one college semester of calculus. Students should have a strong foundation of math skills from prerequisite courses. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. Considerable amount of time on homework is expected outside of class. Students are expected to memorize formulas and unit circle values.
NOTE: A graphing calculator is required for this course.
NOTE: If electing for the AP credit option, students will pay for the AP exam.
NOTE: This course is NCAA approved.

MATHEMATICS COURSES

AP CALCULUS BC PS
Course: 222
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Pre-Calculus BC H (219)
Fee: None

This course covers the curriculum for Advanced Placement Calculus as put forth by the College Board. AB topics include limits, derivatives, and integrals: their computations, their applications to problem solving, and the relationships among them. The BC course includes all AB material, plus Euler's Method, improper integrals, more advanced integration techniques, logistical models, arc length, infinite series, and the calculus of parametric, vector, and polar functions.

REQUIREMENTS: This is a college-level course that covers the material of two college semesters of calculus. Content is covered at a brisk pace. Students should have a strong foundation of math skills from prerequisite courses. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. A considerable amount of time on homework is expected outside of class. Students are expected to memorize formulas and unit circle values.

NOTE: A graphing calculator is required for this course.

NOTE: If electing for the AP credit option, students will pay for the AP exam.

NOTE: This course is NCAA approved.

DC/AP STATISTICS PS
Course: 223
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req for AP or HS only credit: Algebra 1 (205), Geometry (211 or 212) and Algebra 2 (207 or 208)
Pre-Req for Dual Credit: Algebra 1 (205), Geometry (211 or 212), Algebra 2 (207 or 208) WITH Algebra 2 semester grades of B or better.
Fee: None

This Dual Credit/Advanced Placement course is an introduction to applied statistics. Topics include data collection, descriptive statistics, two-variable models including linear regression, the normal and binomial distributions, elementary probability, estimation for one and two samples, and hypothesis testing. The z,t and chi-square test statistics are introduced.

NOTE: This is a college level course that covers the material of one college semester of statistics. Students should have a strong foundation of math skills from prerequisite courses. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. A considerable amount of time on homework is expected outside of class.

NOTE: A graphing calculator is required for this course.

NOTE: This course is NCAA approved.

NOTE: Students taking this course can take it for AP credit or DC credit through UW River Falls. If electing for the AP credit option students will pay for the AP Exam, if electing for the DC option, students will pay $420 for the 4 college credits.

DC TECHNICAL MATH 1 PS
Course: 226
Credit: 1
Duration: Year
Grades 11-12
Pre-Req: Senior standing and completion of two credits of high school math OR junior standing having earned credit for Algebra 1 (205) and Geometry (211 or 212).
Fee: None

This dual credit course is comparable to the (first general math) course offered at Mid-State Technical College called College Mathematics. Topics to be covered will include: review and develop fundamental concepts of mathematics in the areas of algebra, geometry, trigonometry, measurement and data.

NOTE: This course will also help students to prepare for TC Technical Math 2.

NOTE: A calculator is required for this course. It may be a scientific or graphing calculator.

NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for College Math I #10-804-107, 3 credits.

DC TECHNICAL MATH 2 PS
Course: 227
Credit: 1
Duration: Year
Grade: 12
Pre-Req: Senior Standing and completion of three credits of high school math OR Junior standing having earned credit for Algebra 1, Geometry, and Algebra 2
Fee: None

This dual credit course is comparable to the (second general math) course offered at Mid-State Technical College called Intermediate Algebra with Application. Topics to be covered will include: real numbers; solving linear, quadratic and rational expressions; percent, proportions and variation; function and graphs, formula rearrangement; operations with polynomials; solving systems of equations; algebra of inverse; logarithmic and exponential functions.

NOTE: This course will also help students to prepare for a Math College Placement Exam.

NOTE: A calculator is required for this course. It may be a scientific or graphing calculator.

NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Intermediate Algebra with Applications #10804118, 4 credits.

NOTE: This course is NCAA approved.

MATHEMATICS COURSES

MTSS MATH INTERVENTION R
Course: 230
Credit: 1/2 or 1 (Elective)
*Does not count as a math credit
Duration: Semester or Year
Grades: 9-12
Pre-Req: This course is for students who have been identified by district screening measures
Fee: None

This course is a Tier 2 Intervention designed for learners who lag well behind their peers, and demonstrate weak progress on screening measures. The course will begin with an assessment to determine what skills each learner needs to focus on. Learners will receive individualized instruction and basic skills practice in areas of need. Biweekly progress monitoring will be used to make decisions for future skills and content covered.
Note: A calculator is recommended for this course.

MUSIC COURSES

SYMPHONIC BAND R Course: 752 Credit: 1 Duration: Year Grades: 9-12 Pre-Req: See Description Fee: None	By audition only, with freshman through senior standing, and experience on wind or percussion instrument and/or consent of instructor. Centered around the concert season, perform music for concerts, field shows, parades, solo-ensemble and support of home athletic events. Advance musicianship through lessons and extra-curricular ensembles such as Flute Choir, Saxophone Choir, Percussion Ensemble, Woodwind and Brass Choir. Course fee: All students using school instruments will have a $50 fee for the year per instrument. All incoming students need to purchase black marching shoes, black socks, and have black dress clothes for performances.
WIND ENSEMBLE R (BAND) Course: 750 Credit: 1 Duration: Year Grades: 10-12 Pre-Req: See Description Fee: None	By audition only, with sophomore through senior standing, and experience on wind or percussion instrument and/or consent of instructor. Centered around the concert season, perform music for concerts, field shows, parades, solo-ensemble and support of home athletic events. Advance musicianship through lessons and extra-curricular ensembles such as Flute Choir, Saxophone Choir, Percussion Ensemble, Woodwind and Brass Choir. Course fee: All students using school instruments will have a $50 fee for the year per instrument. All incoming students need to purchase black marching shoes, black socks, and have black dress clothes for performances. **NOTE: Students wanting honors credit should sign up for Wind Ensemble H (763).**
WIND ENSEMBLE H Course: 763 Credit: 1 Duration: Year Grades: 10-12 Pre-Req: By audition only, with sophomore through senior standing Fee: None	Centered around the concert season, perform music for concerts, field shows, parades, solo-ensemble and support of home athletic events. Advance musicianship through lessons and extra-curricular ensembles such as Flute Choir, Saxophone Choir, Percussion Ensemble, Woodwind and Brass Choir. Course Fee: All students using school instruments will have a $50 fee for the year per instrument. All incoming students need to purchase black marching shoes, black socks, and have black dress clothes for performances. **REQUIREMENTS: Must play a class "A" solo on the major instrument that you play in Wind Ensemble and a Class "A" ensemble (duet, trio, quartet or quintet). Both works must be performed at the Solo & Ensemble Festival at the district and state level if you qualify**. Must assist at a minimum of 3 Elementary Band Rehearsals per semester.
JAZZ BAND R Course: 757 Credit: 1/2 Duration: Year Grades: 9-12 Pre-Req: Concurrent enrollment in Band (750) or Wind Ensemble H (763) Fee: None	Perform at concerts and community functions. Class meets during the "Early Bird" period from 7:00am-7:45am, on Tuesdays and Fridays.
CHAMBER ORCHESTRA R Course: 760 Credit: 1 Duration: Year Grades: 9-11 Pre-Req: Freshman with prior experience on violin, viola, cello or string bass, and/or instructor's consent. By audition for sophomores and juniors. Fee: None	Develop skills in the string program. Advanced techniques necessary for Symphonic Strings are addressed. These include advanced bowing styles, upper positions, tone control, three octave scales and ensemble playing. Performances include three full concerts, Concert Festival and Solo & Ensemble Festival. **REQUIREMENT: Combined performance with the symphonic orchestra for the graduation ceremony.** Students wanting honors credit should sign up for Chamber Orchestra Honors (764).

MUSIC COURSES

CHAMBER ORCHESTRA H
Course: 764
Credit: 1
Duration: Year
Grades: 9-11
Pre-Req: Freshman, sophomore, or junior standing with prior experience on violin, viola, cello string bass or instructor's consent. Sophomores and juniors by audition.
Fee: None

Develop skills in the string program. Advanced techniques necessary for Symphonic Strings are addressed. These include advanced bowing styles, upper positions, tone control, three octave scales and ensemble playing. The orchestra plays three formal concerts, as well as Concert Festival, Solo & Ensemble Festival and some community events.
REQUIREMENTS: Select, prepare and perform a solo at the District Solo & Ensemble Festival, and State Solo & Ensemble Festival if you qualify. Students must perform in the String Choir for Solo & Ensemble. Attend and critique a professional or semi-professional music concert each semester, assist the elementary orchestra directors with at least three after-school rehearsals each semester. Combined performance with the symphonic orchestra for the graduation ceremony.

SYMPHONIC STRINGS R
Course: 758
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Prior experience on violin, viola, cello, string bass or instructor's consent. Senior standing with sophomores and juniors place by audition.
Fee: None

Exhibit talents and proficiency on your string instrument performing great symphonic and string orchestra literature. The orchestra plays three formal concerts as well as Concert Festival, Solo & Ensemble Festival and some community events.
REQUIREMENTS: All members perform for the graduation ceremony. Students wanting Honors credit should sign up for Symphonic Strings Honors (761).

SYMPHONIC STRINGS H
Course: 761
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Prior experience on violin, viola, cello, string bass or instructor's consent. Senior standing with sophomores and juniors placed by audition.
Fee: None

Exhibit talents and proficiency on your string instrument performing great symphonic and string orchestra literature. The orchestra plays three formal concerts as well as Concert Festival, Solo & Ensemble Festival and some community events.
REQUIREMENTS: Select, prepare and perform a solo at the District Solo & Ensemble Festival and State Solo & Ensemble Festival if you qualify. Students must perform in the String Choir for Solo & Ensemble. Attend and critique a professional or semi-professional music concert each semester, assist the elementary orchestra directors with at least three after-school rehearsals each semester. All members perform for the graduation ceremony.

ORCHESTRA (WINDS) H
Course: 759
Credit: 1/2
Duration: Year
Grades: 10-12
Pre-Req: Permission of Orchestra Director. Orchestra Winds H members must be members of the band. DO NOT sign up for this class without prior approval from the Orchestra Director
Fee: None

Wind and percussion players are chosen either by audition or the recommendation of the band directors. Wind and percussion players rehearse before school from 7:00-7:45 a.m. two or three days per week. The major concentration is on the performance of great symphonic literature and light classics.
REQUIREMENTS: Performances include: three formal concerts, an elementary school tour, and strings festival. All members play for the graduation ceremony.

**Please note: Band, orchestra and choir are year-long classes. Students must supply their own instrument. Students using school instruments will be charged a $50 rental fee. Students participating in Solo & Ensemble must purchase their music.

MUSIC COURSES

TREBLE CHOIR R Course: 774 Credit: 1 Duration: Year Grades: 9-12 Pre-Req: None Fee: Students provide uniform (white on top, black on bottom)	A group for just Soprano and Alto voices. We will work to build music fundamentals for music reading, ensemble blend and balance and vocal production. Literature will consist mainly of two and three-part choral work. Performs at all concerts through the year including Fall, Madrigal, Winter, And All That Jazz, Spring and Pops.
CONCERT CHOIR R Course: 775 Credit: 1 Duration: Year Grades: 11-12 Pre-Req: Junior Standing, unless otherwise approved by the director and audition. Fee: Students provide uniform (concert black including shoes)	Mixed voices are sought for tonal balance and performance excellence. Difficult choral literature is used. Performances include Fall, Madrigal, And All That Jazz, Winter, Solo & Ensemble Festival, Spring, Pops**,** Graduation, and local performances. Madrigal Singers are chosen from this group. If interested in Honors credit, make sure to sign up for Concert Choir Honors (777).
CONCERT CHOIR H Course: 777 Credit: 1 Duration: Year Grades: 11-12 Pre-Req: Junior Standing unless otherwise approved by the director and audition. Fee: Students provide uniform (concert black including shoes)	Mixed voices are sought for tonal balance and performance excellence. Difficult choral literature is used. Performances include Fall, Madrigal, Winter concert, Solo & Ensemble Festival, Pops Concert**,** Spring Concert, Choir Festival, Graduation, and local performances. Madrigal Singers are chosen from this group. **REQUIREMENTS – Must perform a Class A solo for Solo-Ensemble along with being involved in the small group "Jazz Choir". You must perform at district Solo-Ensemble and State if selected. Each semester attend and critique 2 (two) Choral Concerts in the area.**
AP MUSIC THEORY PS Course: 778 Credit: 1 Duration: Year Grades: 11-12 Pre-Req: Junior standing and passing of a basic music proficiency assessment during the first week of the course. Fee: $40 textbook fee	Delve into the mechanics or technical aspects of music, which lead to understanding of, and working with rhythms, scales, chord structure and four-part harmony. Some piano experience suggested, but not essential. Not for beginners. **REQUIREMENTS: You will sight-sing at level 3, major & minor, part-write in 4 vocal parts according to 17th Century part-writing rules and complete Melodic & Harmonic Dictation – major & minor.** **NOTE: This class is scheduled to run on "Even" graduation years (ie-2025-2026, 2027-2028, 2029-2030 etc.)**
SOUNDSCAPE R Course: 776 Credit: 1/2 Duration: Semester Grades: 10-12 Pre-Req: Junior standing or sophomores with instructor consent. Self-motivated students that can follow rubrics and work independently. Fee: None	Create music, develop melodies, add instruments to a selection or write your own compositions using computer software with electronic keyboards.

**Please note: Band, orchestra and choir are year-long classes. Students must supply their own instrument. Students using school instruments will be charged a $50 rental fee. Students participating in Solo & Ensemble for piano or guitar must purchase their music.

PHYSICAL EDUCATION/HEALTH/DRIVERS ED

FIT FOR LIFE I
Course: 600
Credit: 1/2
Duration: Semester
Grades: 9-10
Pre-Req: Required for graduation. Open to freshmen.

Fit for Life I is the building block for other physical education courses at MHS. Through this course, students will learn that physical activity can be enjoyable and promote growth in physical skills, knowledge of movement concepts, personal fitness, responsibility and social interaction. In this course, students will explore a variety of lifetime physical activities (Dance & Rhythms, Invasion Games, Net/Wall Games, Target Games, Fielding and Striking Games, Outdoor Pursuits/Adventure Activities, Aquatics, and Fitness Activities) that will set the foundation for developing physical literacy.
REQUIRED: Appropriate active wear, athletic shoes, and iPad.

FIT FOR LIFE II
Course: 601
Credit: 1/2
Duration: Semester
Grades 10
Pre-Req: Required for graduation. Sophomore Standing, must pass Fit for Life I

The offering of this new course is subject to Board approval
Fit for Life II builds upon the lifetime activities demonstrated in Fit for Life I. In this course students refine their skills and develop competency in Fitness Activities, Invasion Games, Target Games, Outdoor Pursuits, Fielding/Striking Games, Aquatics, Net/Wall Games, Dance & Rhythms, and Individual Performance Activities. Upon completion of Fit for Life II, the well-rounded learner will have a better understanding of which physical activities motivate them to become physically literate individuals for life.
REQUIRED DAILY: Shorts, t-shirt, and athletic shoes (to remain at school), occasionally one-piece swimsuit will be needed.

INTRODUCTION TO PERFORMANCE TRAINING
Course: 602
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Must pass Fit for Life I and II and receive PE Department approval. Must be taken during a separate semester from Fit for Life I.

The offering of this new course is subject to Board approval
This course is designed for highly motivated students who want to improve their strength and skill-related fitness. This class will focus on a teacher-led strength training program that will break down movement patterns and develop strength to increase physical performance qualities. Students will apply fitness principles and create a comprehensive fitness portfolio which will help develop and track progress in strength, conditioning, range of motion, agility, balance, coordination, reaction time, power, and speed.

ADVANCED PERFORMANCE TRAINING
Course: 603
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing, Fit for Life I
Fees: Fees may apply for field experience

The offering of this new course is subject to Board approval
This course is designed for extremely motivated students who are looking to build upon their prior experience from Introduction to Performance Training. This advanced course focuses on intermediate to advanced students interested in enhancing their strength, conditioning, range of motion, agility, balance, coordination, reaction time, power, and speed. The movements/exercises in this course will be more refined as students develop from the cognitive-to-associative stages of learning towards the associative to autonomous stages of motor learning.
REQUIRED: Appropriate active wear and athletic shoes, iPad, one-piece swimsuit

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TEAM SPORTS I
Course: 604
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Must pass Fit for Life I & II

The offering of this new course is subject to Board approval
In Team Sports I, students will work as a team in a competitive and inclusive environment. Throughout the course, students will participate in team sports related to invasion, net/wall, target, and fielding/striking. Students are expected to develop and perform sport-specific skills, apply knowledge regarding rules, tactics, and strategies, enhance personal fitness levels, and exhibit proper teamwork and etiquette. Sport-specific conditioning/training exercises will be incorporated into class activities in addition to fast-paced gameplay. Activities include: Softball/Kickball, Ultimate Frisbee, Flag Football, Volleyball, Lacrosse, Floor Hockey, Basketball, H20 Sports and Soccer.

PHYSICAL EDUCATION/HEALTH/DRIVER'S ED

TEAM SPORTS II
Course: 605
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Must pass Fit for Life I & II and Team Sports I
Fees: None

The offering of this new course is subject to Board approval
Team Sports II strives to make the physical education experience feel like being part of an authentic sport season. Learners will develop a sense of belonging as they become members of a team and embrace a role on their team's roster (i.e. captain, statistician, fitness instructor, manager, referee, player scorekeeper, etc.). Just as in a team sport, learners will develop their skills through sport-specific lead-up games which will prepare them for a formal season/unit schedule of games. Additionally, to promote a more in-depth understanding of the skills needed to perform each sport student-created practice plans will be interspersed throughout each season/unit.

OFFICIATING, COACHING, & LEADERSHIP
Course: 606
Credit: ½ (Elective)
Duration: Semester
Grades: 11-12
Pre-Req: Must earn 1.5 PE credits and receive PE Department approval

The offering of this new course is subject to Board approval
As an official, learn the rules, the game play, and the guidelines for a variety of sports including football, baseball, softball/baseball, basketball, and volleyball. In addition, you will learn the officiating calls and hand signals for each sport, as well as the role a sport official plays in maintaining fair play. As a coach, learn how to lead a team by building your mission and vision statements, understanding the importance of core values, developing a practice/season plan, and tactics/strategy used by current coaches in their respected sport. By participating in this course, you will have the opportunity to obtain WIAA official certification and possible employment as a WIAA official.
REQUIRED: Students seeking certification must have transportation to game/practice/activity.

INDIVIDUAL-DUAL LIFETIME PHYSICAL ACTIVITIES
Course: 607
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Must pass Fit for Life I & II

The offering of this new course is subject to Board approval
This course will give the learner an opportunity to experience many life-time physical activities that can be done individually or with another person/partner. Emphasis is placed on the attainment of lifetime physical activity skills for recreational participation. In an effort to continually build on the student's fitness level, a variety of fitness-based activities will be integrated throughout the course. Units will include individual-dual activities in dance/rhythms, net/wall games, target games, outdoor pursuits, adventure activities, and aquatics.

PARTNER PE
Course: 608
Credit: ½ (Elective)
Duration: Semester
Grades: 11-12
Pre-Req: Must earn 1.5 PE credits and receive PE Department approval

The offering of this new course is subject to Board approval
Partner PE is a success-oriented physical education program featuring supervised peer tutors and individualized learning and instruction. The purpose of Partner PE is to encourage physical activity, increase knowledge of health and fitness strategies, and assist in the acquisition of individual lifetime fitness and recreation activities. Students in Partner PE will be paired with another student to assist in meeting the unique physical education needs of some students within the school setting. Students can utilize this class as an opportunity to develop leadership, organization, communication, and empathy skills needed to work with participants in need of human services. Structured activities for participants may include utilizing the fitness center, weight room, pool, and/or fieldhouse for other culminating recreational activities.

PERSONAL WELLNESS & FITNESS
Course: 609
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req:
Must pass Fit for Life I & II
Fees: None

The offering of this new course is subject to Board approval
Participants will analyze and work to improve their health-related fitness by completing daily activities geared towards cardiovascular endurance, muscular fitness, and flexibility. Students will set goals and develop a personal workout plan to meet those goals. In this course, students will be exposed to a variety of health-related concepts that affect overall personal fitness and wellness. Activities may include strength/weight training, cardiovascular activities, flexibility training, and recreational physical activities (i.e. aquatics, outdoor pursuits, net/wall games, target games, etc)

PHYSICAL EDUCATION/HEALTH/DRIVER'S ED

OUTDOOR PURSUITS & ADVENTURE ACTIVITIES
Course: 611
Credit: 1/2
Duration: Semester
Grades:11-12
Pre-Req: Must pass Fit for Life I & II

The offering of this new course is subject to Board approval
This course allows the learner to connect with the outdoors through a variety of outdoor physical activities. In this course, learners will develop activity-specific movement and technical skills needed for participation in outdoor fitness, sport, and recreational activities. In an effort to continually build on the student's fitness level, a variety of fitness-based activities will be integrated throughout the course. Units will include swimming, kayaking, biking, Geocaching/Orienteering, Frisbee Games (i.e. Disc Golf, KanJam), Archery, Climbing, Cross-Country Skiing/Snowshoeing, and Backyard Games (i.e. Cornhole, Spikeball, and Badminton).

HEALTHY CHOICES R
Course: 615
Credit: 1/2
Duration: Semester
Grades: 9-10
Pre-Req: Suggested and preferred for grades 9 and 10
Fees: None

The goal of this course is to provide students with the opportunity to become health literate individuals. Students will gain knowledge and skills to be able to access, understand, appraise, apply, and advocate for health information and services. Learning opportunities will challenge students to use critical thinking, decision making and problem-solving skills to promote and maintain lifelong health and wellness to enhance their own health and the health of others.
NOTE: This course is required for graduation.

DC NUTRITION FOR HEALTHY LIVING PS
Course: 616
Credit: ½
Duration: Semester (offered in fall)
Grades: 10-12
Pre-Req: Must pass Healthy Choices.
Dual-credit through Mid-State
Fees: None

The offering of this new course is subject to Board approval
Students will learn concepts of healthy eating to facilitate the journey of good health across the lifespan. Healthy eating concepts focus on individual decision-making and behavior change with sustainable interventions rooted in evidence-based practice. Students will investigate nutrition myths versus fact and explore how policy and environment impact nutritional choice.

DC MENTAL WELLNESS & STRESS MANAGEMENT PS
Course: 617
Credit: ½
Duration: Semester (offered in spring)
Grades: 10-12
Pre-Req: Must pass Healthy Choices.
Dual credit through Mid-State
Fees: None

The offering of this new course is subject to Board approval
Learners will investigate the underpinnings of mental health and wellness. Explore the risks of stress and emotional management techniques to mitigate these risks by embracing a growth mindset. The learner will be engaged in processes to support the emotional dimension of health and demonstrate ways to implement these practices for oneself and others along their wellness journey.

DRIVER EDUCATION R
Course: 621/622
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: Preference given by earliest birthdate
Fees: Cost of behind-the-wheel is $250 with possible increase of no more than $50

Prepare yourself for a lifetime of safe driving with this driver-safety course. Driver condition, highway driving, intersections, emergency maneuvers and defensive driving are just a few of the topics to be covered. The lab portion of this course will include eight hours of simulation, six hours of in-the-car observation and six lessons behind-the-wheel. Behind-the-wheel instruction will take place during study halls, after school, and during the summer.

Register for Course 621 for fall semester.
Register for Course 622 for spring semester.

PHYSICAL EDUCATION/HEALTH/DRIVER'S ED

Driver's Education Policy

- Freshmen students who will turn 15 before the first day of school of their 9th grade year can request Drivers Ed for 1st semester (621).
- Older students will be given priority if seats are filled.
- Freshmen students who will turn 15 before the first day of the 2nd semester of their 9th grade year can request Drivers Ed 2nd semester (622)
  - After the start of the school year, if there are remaining seats in second semester, there will be a waiting list created in the counseling office. This waiting list will be advertised on the announcements and seats will be filled based on date of birth with the oldest students being placed first.
  - Students on the waiting list will be notified via email when all seats have been filled.

**Please note that these guidelines are set due to limitations on staff availability and class section sizes.*

Physical Education Medical Excuse Policy

Student participation requirements in physical education may be modified due to injuries or illness. Parent notes will be accepted for modification of activities for a maximum of two days. Modifications of class requirements for more than two days will require a doctor's medical excuse specifying the reason for modification and/or exemption, time frame, and specific types of physical activity the student should avoid. Please ask your doctor to provide a Modified Participation in Physical Education Physician's Certification Form (Marshfield Clinic).

SCIENCE COURSES

BIOLOGY R
Course: 107
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

Examine the nature and continuity of life. Investigate the molecules of life, cell structure and function, genetics and biotechnology, evolution, and ecology.
NOTE: This course is NCAA approved.

BIOLOGY H
Course: 110
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

Students will examine the characteristics of organisms. Biology Honors emphasizes the development of reading, writing, and analytical skills required in the ever- changing field of biology. The course is divided into five units: Unit 1 -- Biochemistry; Unit 2 – Cell Structure and Function; Unit 3 – Genetics; Unit 4 – Evolution; and Unit 5 – Ecology.
NOTE: This course is NCAA approved.

SCIENCE EXPLORATION R
Course: 111
Credit: 1
Duration: Year
Grades: 9
Pre-Req: See Note
Fee: None

Science Explorations is an integrated, thematically designed science course. It serves as a foundational course that provides the science skills and processes required to be successful in future science courses such as biology, chemistry, and principles of biomedical science. The course is laboratory based and focuses on scientific inquiry and data analysis. Content areas explored include Kinematics, Ecology, Atmosphere, Astronomy, Environmental Science, etc.
Pre-Req: Grade 9-Recommendation from MMS teacher/Guidance, Grades 10-12 MHS teacher recommendation after completion of 9th grade science class.

ANATOMY & PHYSIOLOGY R
Course: 113
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Biology (107) or Biology Honors (110), Chemistry (116) or Chemistry Honors (118) or instructor's consent.
Fee: None

This course examines the structures and functions of the various systems of the human body, as well as examining the causes and cures of human disease. Animal dissections will be used to help us better understand how the human body works. First semester topics include cell specialization; skeletal, muscular, integumentary, and nervous systems. Second semester topics include digestive, respiratory, circulatory, excretory, endocrine, reproductive systems, and heredity.
NOTE: This course is required for Health Career Connections which is application and interview dependent with limited space.
NOTE: This course is NCAA approved.

DC ANATOMY & PHYSIOLOGY PS
Course: 114
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Biology (107) or Biology Honors (110), Chemistry (116) or Chemistry Honors (118) or instructor's consent.
Fee: None

This course deals with the study of cells, tissues, and the various systems of the human body, as well as the causes and cures of human diseases. Animal dissections, model making, and projects will be used to help better understand how the human body works. First semester topics include cell specialization; skeletal, muscular, integumentary, and nervous systems. Second semester topics include digestive, respiratory, circulatory, excretory, endocrine, reproductive systems, and heredity. This course is recommended for those students interested in medicine, nursing, medical technology, or any health care related field.
NOTE: This course is required for Health Career Connections which is application and interview dependent with limited space.
REQUIREMENTS: There will be 2-3 major tests and one large project per quarter. Expect to work on projects outside of class. Higher-level problem-solving skills will be developed through the use of case studies.
NOTE: This course is NCAA approved.

SCIENCE COURSES

CHEMISTRY R
Course: 116
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Algebra 1 (205)
Fee: Please see *Fee Note in description

Study the classification of matter; electron configuration and atomic structure; the periodic classification of elements; chemical bonding; chemical formulas and equations; the mathematics of chemistry; and the physical characteristics and molecular composition of gases, liquids, and solids.
*** Lab Notebook Fee $ 2.00**
NOTE: This course is NCAA approved.

CHEMISTRY H
Course: 118
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Either successful completion of Algebra 1 (205) with a "B" grade or better or Algebra 1 (206) with a "C" grade or better.
Fee: None

Study the classification of matter; electron configuration and atomic structure; the periodic classification of elements; chemical bonding; chemical formulas and equations; the mathematics of chemistry; kinetic-molecular theory; and the physical characteristics and molecular composition of gases, liquids, and solids. There is no charge for this course for materials and chemicals for laboratory; Chemistry involves a great deal of mathematics, especially algebra, so a scientific/graphic calculator is required for this course.
NOTE: Concurrent enrollment in Algebra 2 (208) is recommended.
NOTE: This course is NCAA approved.

AP CHEMISTRY PS
Course: 119
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Chemistry Honors (118) or Chemistry (116) with instructor's consent, Algebra 2 R (207) or Algebra 2 H (208).
Fee: None

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution orto register in courses in other fields where general chemistry is a prerequisite. For others the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. Topics include the structure of matter, kinetic theory of matter, chemical equilibria, chemical kinetics, and thermodynamics. Emphasis is on problem solving on paper and in the laboratory.
NOTE: Concurrent enrollment in Pre-Calculus or Calculus is recommended.
REQUIREMENTS: This course moves quickly, requires nightly homework, and time outside of the scheduled class to complete labs and ask questions. Some colleges award up to 10 college credits for a "5" on the AP Chemistry exam.
NOTE: This course is NCAA approved.

EARTH & SPACE SCIENCE R
Course: 120
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

This course is laboratory-based science class emphasizing the function of the earth's system. Emphasis is placed on Earth's geologic systems, Earth's composition, predictability of a dynamic Earth, origin and evolution of the Earth system and universe, and energy in the Earth system. Topics covered in the Meteorology section of the course include the makeup and structure of the atmosphere, factors affecting weather, weather patterns, and seasonal effects on weather. This course also acquaints students with astronomy concepts including basic facts about the Earth, moon, stars, galaxies, and the universe.
NOTE: This course is NCAA approved.

SCIENCE COURSES

EARTH & SPACE SCIENCE H
Course: 122
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

The honors Earth & Space science course is designed to introduce the Earth sciences to the self-motivated student who is college bound. The Earth science course is designed to interpret and understand the world around you. In order to do so, students 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, how and why Earth changes over time. Topics to be addressed include, but are not limited to, the scientific method, minerals, rocks, plate tectonics, earthquakes, volcanoes, surface processes, geologic time, meteorology, and astronomy.
NOTE: This course is NCAA approved.

PHYSICS R
Course: 126
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Algebra 1 (205/206)
Fee: None

Physics is concerned with the study of motion, dynamics, gravity, energy, waves, and current discoveries in physics. We will explore applications in Hollywood movies, technology, and society. Recommended if you are pursuing a liberal arts program in college or a vocational school. Laboratory Requirement: At least 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.
NOTE: This course is NCAA approved.

PHYSICS H
Course: 127
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Completion of or concurrent enrollment in Algebra I (205/206)
Fee: None

Physics is concerned with the study of motion, dynamics, gravity, energy, waves, special relativity, and current discoveries in physics. We will explore applications in Hollywood movies, technology, and society. Recommended for students seeking a Bachelor of Science degree. If you are pursuing an Engineering or Physical Science major in college, it is recommended that you take this class prior to senior year so you can fit in AP Physics before graduation. Laboratory Requirement: At least 25 percent of the instructional time will be spent on hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.
NOTE: This course is NCAA approved.

AP PHYSICS 1 PS
Course: 128
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Physics R (126) or Physics H (127) or completion of any prior AP Science course with a B or better grade.
Fee: None

AP Physics 1 is an algebra-based, introductory college-level physics course with a heavy emphasis on writing. Explore topics such as Newtonian mechanics (including rotational motion), work, energy, and power, mechanical waves and sound, and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students can elect to take the AP Physics 1 Exam for college credit in May (check with your university for college credit you can attain). Laboratory Requirement: This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.
NOTE: This course is NCAA approved.

SCIENCE COURSES

AP PHYSICS 2 PS
Course: 129
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Any prior physics course or instructor's consent
Fee: None

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Also study interactions among science, technology, and society. Students can elect to take the AP Physics 2 Exam for college credit in May (check with your university for college credit you can attain). Laboratory Requirement: This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.
NOTE: This course is NCAA approved.

AP PHYSICS C MECHANICS (CALCULUS BASED) PS
Course: 130
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Any prior physics course or instructor's consent. Completion of/or concurrent enrollment in AP Calculus Honors (221 or 222) is recommended.
Fee: None

This course is recommended for students intending to pursue degrees in the physical sciences or engineering. Explore concepts such as kinematics; Newton's laws of motion, work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. Learn to apply differential and integral calculus in order to solve problems associated with these concepts. Build your understanding and critical thinking skills through inquiry-based, laboratory investigations that explore these physics concepts. This course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus. Also study interactions among science, technology, and society
NOTE: This course is NCAA approved.

AP PHYSICS C ELECTRICITY & MAGNETISM (CALCULUS BASED) PS
Course: 131
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Completion of/or concurrent enrollment in AP Physics C Mechanics PS (130).
Fee: None

This course is recommended for students intending to pursue degrees in the physical sciences or engineering. Explore concepts such as electrostatics, electric circuits, conductors, capacitors, dielectrics, magnetic fields, and electromagnetism. Learn to apply differential and integral calculus in order to solve problems associated with these concepts. Build your understanding and critical thinking skills through inquiry-based, laboratory investigations that explore these physics concepts. This course ordinarily forms the second part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus. Also study interactions among science, technology, and society.
NOTE: This course is NCAA approved.

AP BIOLOGY PS
Course: 132
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Biology Honors (110) and Chemistry Honors (118) strongly recommended, or instructor's consent.
Fee: $20

AP Biology is designed to be the equivalent of a college introductory biology course taken by biology majors. Upon successful completion of the AP Exam, students may be permitted to register for upper-level university courses where biology is a prerequisite. A college textbook is used; topics are covered in great depth. The course emphasizes the development of reading, writing, and analytical skills required in the ever-changing field of biology. The course is divided into eight units: Unit 1 – Chemistry of Life, Unit 2 – Cell Structure and Function, Unit 3 – Cellular Energetics, Unit 4 – Cell Communication and Cell Cycle, Unit 5 – Heredity, Unit 6 – Gene Expression and Regulation, Unit 7 - Natural Selection, and Unit 8 – Ecology.
NOTE: This course is NCAA approved.

SCIENCE COURSES

OCEANOLOGY H
Course: 153
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Study physical, chemical, geological, and biological aspects of the oceans. Topics include oceanographic instruments, seawater chemistry, ocean sediments, waves, weather and climate, tides and currents, ecosystems, maritime heritage, and current issues.
REQUIREMENTS: Students should possess high level thinking skills, be willing to work at a fast pace, possess an interest in all science areas and possess the ability to read at college level.
NOTE: This course is NCAA approved.

AP ENVIRONMENTAL SCIENCE PS
Course: 155
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Successful completion of biology and chemistry or instructor approval
Fee: $2.00 lab notebook

AP Environmental Science is an interdisciplinary science course designed for both science majors and non-majors. The course provides the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will identify and analyze environmental problems, both natural and human made. Some of the topics of study in the course include sustainable resource use, loss of biodiversity, access to safe water, human population growth and global change. Students will examine alternative solutions for resolving or preventing environmental challenges. College credit can be earned for successful completion of the AP National exam.
REQUIREMENTS: A lab notebook is required.
NOTE: This course is NCAA approved.

PRINCIPLES OF THE BIOMEDICAL SCIENCES PS PLTW
Course: 157
Credit: 1
Duration: Year
Grades: 9-10
Pre-Req: Concurrent enrollment in college prep math and science. This course is designed for 9th or 10th grade students.
Fee: $15

In this course, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing, and proposing treatment to patients in a family practice, tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems. From design and data analysis to outbreaks, clinical empathy, health promotion, and more, students explore the vast range of careers in biomedical sciences. They develop not just technical skills, but also in-demand, transportable skills that they need to thrive in life and career.
NOTE: This course is NCAA approved.

HUMAN BODY SYSTEMS PS PLTW
Course: 158
Credit: 1
Duration: Year
Grades: 10-11
Pre-Req: Concurrent enrollment in college prep math and science. This course is designed for 10th or 11th grade students.
Fee: $15

Students experience real-world scenarios and cases to see medicine in action- as they diagnose and provide treatment and rehabilitation to patients at an outpatient center, keep clients safe and healthy on adventure medicine trips in remote locations and work in a research center to design laboratory investigations to explore development and aging. **NOTE: This course is NCAA approved.**

SCIENCE COURSES

MEDICAL INTERVENTIONS PS PLTW
Course: 160
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Principles of Biomedical Sciences PLTW (157) and Human Body Systems PLTW (158). Concurrent enrollment in college prep math and science and Junior standing, or instructor's consent based off completed previous science grades.
Fee: None

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.
NOTE: This course is NCAA approved.

BIOMEDICAL INNOVATION PS PLTW
Course: 161
Credit: 1
Duration: Year
Grades: 12
Pre-Req: Completion of or concurrent enrollment in Medical Interventions PLTW (160). Senior standing, or instructor's consent based off completed/previous science grades.
Fee: None

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.
NOTE: This course is NCAA approved.

SOCIAL SCIENCE COURSES

Three and one half (3½) credits are required for graduation and must contain the following:

Freshman: (1 credit required)
Student must choose one of the following year-long courses:
- US History & American Government R (301)
- or Foundations (300)
- AP History of American Government & Politics PS (302)

Sophomore: (1 credit required)
Student must choose one of the following year-long courses:
- The American Republic R (306)
- or Foundations (305)
- AP United States History PS (336)

Junior: (1 credit required)
Student must choose one of the following year-long courses.
- World Studies R (310)
- or Foundations (309)
- AP European History PS (324)
- AP World History PS (338)

Senior: (½ credit required)
Additionally, if not taken as a freshman, student must choose one of the following year-long courses:
- US History & American Government R (301)
- or Foundations (300)
- AP History of Government and Politics PS (302)

Electives:
- Crime, Justice & Law R (328) 1/2 credit
- Genocide and Human Rights R (342) 1/2 credit
- Psychology R (315) 1/2 credit
- AP Psychology PS (317) 1 credit
- AP European History PS (324) 1 credit
- AP History of Government & Politics PS (302) 1 credit
- AP Economics PS (337) 1 credit
- AP United States History PS (336) 1 credit
- AP World History PS (338) 1 credit
- AP Comparative Government PS (340) 1/2 credit

SOCIAL SCIENCE COURSES

US HISTORY & AMERICAN GOVERNMENT FOUNDATIONS R
Course: 300
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Teacher/Counselor Recommendation
Fee: None

Expand your understanding of U.S. History through study of the development of American colonies, the Revolutionary War, the United States Constitution, the Early Federal Period, as well as the establishment and development of the American Government to the modern period. Explore the foundations of US government through close reading and guided writings. Placement in this course is made using multiple measures of student achievement.

US HISTORY & AMERICAN GOVERNMENT R
Course: 301
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

Expand your understanding of U.S. History through study of the development of American colonies, the Revolutionary War, the United States Constitution, the Early Federal Period, as well as, the establishment and development of the American Government to the modern period.
NOTE: This course is NCAA approved.

AP HISTORY OF AMERICAN GOVERNMENT & POLITICS PS
Course: 302
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

Expect an in-depth analysis of the U.S. Constitution. Research and analyze the impact of this living document on today's society. Become active participants in the study of political beliefs, political behaviors, political parties, interest groups, mass media, institutions of national government, civil liberties, civil rights and public policy.
NOTE: This course is NCAA approved.

THE AMERICAN REPUBLIC FOUNDATIONS R
Course: 305
Credit: 1
Grades: 10-12
Duration: Year
Pre-Req: Teacher/Counselor recommendation
Fee: None

Use primary sources and guided writing to understand how the US has evolved through political, social, intellectual, and economic change to become one of the most powerful nations in the world. This course focuses on increasing core area skills of reading, writing, and thinking in students who struggle academically. Placement in this course is made using multiple measures of student achievement.

SOCIAL SCIENCE COURSES

THE AMERICAN REPUBLIC R
Course: 306
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: U.S. History & American Government (301) or AP History of American Government & Politics H (302).
Fee: None

Follow United States emergence as a world power by analyzing civil war, Reconstruction, Industrialization, American imperialism, the Progressive Era, American involvement in World War I, the prosperity of the 1920's, the Great Depression of the 1930's, the Roosevelt New Deal, involvement in World War II, domestic and foreign challenges of the post-war world, America's involvement in Vietnam and America from the 1960's to the 21st century.
NOTE: This course is NCAA approved.

WORLD STUDIES FOUNDATIONS R
Course: 309
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Teacher/Counselor recommendation; Junior standing
Fee: None

Understand how western society originated, has evolved, and continues to be a model for politics, economics, and social structures in the world. The course starts in the Middle Ages and continues to the early 20th Century. The second semester transitions into a modern analysis of numerous European, African, Middle Eastern, South American, and Asian countries. This semester focuses on the strengths and weaknesses of these areas and tries to examine how certain areas of the world are rapidly progressing to global dominance while others remain 2nd and 3rd world countries. Placement in this course is made using multiple measures of student achievement

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WORLD STUDIES R
Course: 310
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Junior standing
Fee: None

Understand how western society originated, has evolved, and continues to be a model for politics, economics, and social structures in the world. The course starts in the Middle Ages and continues to the early 20th Century. The second semester transitions into a modern analysis of numerous European, African, Middle Eastern, South American, and Asian countries. This semester focuses on the strengths and weaknesses of these areas and tries to examine how certain areas of the world are rapidly progressing to global dominance while others remain 2nd and 3rd world countries.
NOTE: This course is NCAA approved.

PSYCHOLOGY R
Course: 315
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior standing
Fee: None

Find out how dogs, bells, inkblots, electric shocks and more play a role in understanding human experience. Explore the world of the mind through a thoughtful investigation into the history, theory, and application of psychology.
Emphasis: Critical thinking skills, critical writing, integrated technology, higher level reading skills.
NOTE: This course is NCAA approved.

AP PSYCHOLOGY PS
Course: 317
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Junior standing or instructor's consent
Fee: None

Take part in a demanding, fast-paced survey of the many facets of human experience. The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the studies that have shaped the field, students explore and apply psychological theories, key concepts and phenomena associated with the major units of study including biological bases of behavior, cognition, development, learning, social psychology, personality, and mental and physical health. Throughout the course, students apply psychological concepts and employ psychological research methods and data interpretation to evaluate claims, consider evidence, and effectively communicate ideas. Through the AP Psychology experience, students have the opportunity to prepare for the AP Psychology exam in the spring.
NOTE: This course is NCAA approved.

SOCIAL SCIENCE COURSES

AP EUROPEAN HISTORY PS
Course: 324
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Junior standing, instructor's consent
Fee: None

Raise the academic bar with the challenges of a rigorous and fast paced survey of European history. AP European history will cover Europe's journey from the Renaissance to modern day (1450-present). All students, prior AP students and newcomers to the AP program, are welcome to join the class.
NOTE: This course is NCAA approved.

CRIME JUSTICE & LAW R
Course: 328
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior standing
Fee: None

Criminal Justice is a survey of the justice system that focuses on the rights of citizens, law enforcement, court proceedings, probation and parole, pretrial services, the prison system, and practical law. Issues of crime and justice dominate American culture, from the halls of Congress to prime-time television, to what happens on the streets of Marshfield. The intent of this course is to help individual students comprehend how the legal system operates locally and nationally. Students will examine careers in all facets of justice. Meets senior social science requirements for graduation.
NOTE: This course is NCAA approved.

AP UNITED STATES HISTORY PS
Course: 336
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore standing
Fee: None

AP US History will cover United States history from colonization to present day, following college standards of writing, reading and critical thinking. Become a historian through the analysis of primary source documents, development of historical arguments and connections, and use of historical thinking skills. Prior AP students and newcomers to the AP program are welcome.
NOTE: This course is NCAA approved.

AP ECONOMICS PS
Course: 337
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore standing or consent of the instructor
Fee: None

Expand your understanding of the complexities of the American economy in this challenging college level course. Examine the underlying principles of micro and macroeconomics, collaborate with business leaders to examine local issues, and work toward possible college credit.
NOTE: This course fulfills the senior Consumer Education requirement for graduation.
NOTE: This course is NCAA approved.

AP WORLD HISTORY: MODERN PS
Course: 338
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Junior standing or instructor's consent
Fee: None

Study the cultural, economic, political, and social developments that have shaped the world from 1200 CE to the present. Analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. Prior AP students and newcomers to the AP program are welcome.
NOTE: This course is NCAA approved.

SOCIAL SCIENCE COURSES

AP COMPARATIVE GOVERNMENT PS
Course: 340
Credit:1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore standing with completion of a US government course.
Fee: None

AP Comparative Government sets a historic foundation for the AP 6 Countries of: United Kingdom, Mexico, Russia, China, Nigeria, and Iran. The majority of the course analyzes modern trends of power, authority, sovereignty, legitimacy, and institutions of the AP 6 countries. Critical reading, analytical writing, media analysis, and construction of governmental models are key skills developed in preparation for the AP National Exam.
NOTE: This course is NCAA approved.

GENOCIDE AND HUMAN RIGHTS R
Course: 342
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: None
Fee: None

Few issues in the world today are as important, or impact the lives of as many people, as the issue of human rights. From the Israeli-Palestinian conflict in the Middle East, to political repression in China, to allegations of torture by the CIA, basic human rights are endangered or violated all over the world. And all over the world, individual citizens work every day to protect those human rights—liberty, equality, and justice, freedom from fear and freedom from want--from abuse.
In this course, students will identify universal human rights and will examine how our understanding of those rights has evolved over time. They will also explore the ways and instances in which those human rights have been violated, both in the past and in contemporary society.
NOTE: This course is NCAA approved.

SPECIAL EDUCATION COURSES

LIVING FOR TOMORROW FOUNDATION Course: 651 Credit: Per IEP Duration: Year Grades: 9-12 Pre-Req: Instruction using the essential elements alternative standards Fee: None	Topics covered include: current events, independent living skills, career planning, recreation, housing, adult service agencies, legal issues, medical services, financial services, insurance, and self-advocacy. This class stresses the thinking skills and social/emotional coping skills needed for successful independent adult living. Students will transition into the adult community to practice their learned skills. **NOTE: Students taking this class typically have a 2nd-4th grade reading level.**
ENGLISH FOUNDATION Course: 652 Credit: Per IEP Duration: Year Grades: 9-12 Pre-Req: Instruction using the essential elements alternative standards Fee: None	Develop and maintain basic skills in the area of communication arts related to independent living and employability. Students will learn functional life/career reading, spelling, writing, listening, self-presentation, and self-advocacy/assertiveness skills. **NOTE: Students taking this class typically have a 2nd-4th grade reading level.**
LIFE MATH FOUNDATION Course: 654 Credit: Per IEP Duration: Year Grades: 9-12 Pre-Req: Instruction using the essential elements alternative standards Fee: None	Learn and maintain basic functional career and consumer mathematics as it relates to independent living in the community, daily living and employment and leisure. Units covered include money skills, time management, banking, budgeting, purchasing, home management costs, and calculator skills. **NOTE: Students taking this class typically have a 2nd-4th grade reading level.**
SCIENCE FOUNDATION Course: 656 Credit: Per IEP Duration: Year Grades: 9-12 Pre-Req: Instruction using the essential elements alternative standards Fee: None	Emphasize practical applications of science to an ever-increasing technological society. Students learn the ways in which science and technology influence their daily lives and future careers. The basic concepts of physical science, space, earth science and life science are investigated. **NOTE: Students taking this class typically have a 2nd-4th grade reading level.**
CAREER EXPLORATION FOUNDATIONS Course: 661 Credit: Per IEP Duration: Year Grades: 12 Pre-Req: Senior standing per IEP. Students must be DVR eligible and must choose a vocational provider. Fee: None	Prepare for the working world by developing work habits and attitudes, social skills, and job seeking and securing skills. The course consists of school to-work instruction in the classroom until the student is placed in a work trial, at which time students will receive on-the-job training at a place of employment. The student will have at least one paid job trail in one semester or at least two paid trials during the school year. The Division of Vocational Rehabilitation will fund the paid work trials, vocational case management and the job coaches that will accompany the students. One day per week is used for self-evaluation and skill development including the Skills to Pay the Bills curriculum presented by a vocational provider. This class meets two periods each day with approximately one-hour on-the-job training unless the student works beyond the school day.

SPECIAL EDUCATION COURSES

LIFE BALANCE R
Course: 668
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: IEP Team Decision
Fee: None

Students explore the different aspects of Social Emotional Learning, including self-management, self-awareness, social awareness, relationship skills, and responsible decision making. This class will explore mindfulness, growth mindset, self-reflection, relationships, communication, and goal setting. Students will walk away with strategies to support their social and emotional health in order to achieve their best selves.

MATH CONCEPTS R
Course: 680
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: IEP Team Decision
Fee: None

Students will focus on increasing math computation and application skills. Topics addressed may include basic geometry (Pythagorean theory, similar triangles), introductory algebra, solution strategies involving straight line equations on the coordinate system, exponents, signed numbers, facility with problems that refer to fractions, decimals, and percents, data tables or graphs and a wide range of word problems that involve rate, proportion, probability, and algebraic solutions. This math class counts as 1 math credit towards graduation.
NOTE: Course may be retaken for credit.
REQUIRMENT: Student must have an IEP

COLLEGE & CAREER READY R
Course: 683
Credit: 1
Duration: Year
Grades: 9-10
Pre-Req: Students should be enrolled in a Support/CRC Study Hall through an IEP
Fee: None

Students will focus on gaining skills to help them become more prepared for post-secondary schooling and careers. Areas of emphasis will include positive communication skills, independent work skills, career interests, and acquisition of transition skills needed for future success.
NOTE: Course may be retaken for credit.
REQUIREMENT: Student must have an IEP

UNDERSTANDING TEXT R
Course: 685
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Instructor's Consent
Fee: None

Students will focus on increasing reading fluency and comprehension skills, building vocabulary, and utilizing reading strategies. Curriculum will be delivered through whole group, small group, and individualized methods. Course content will include readings from fiction and nonfiction sources, including novels, textbooks, technical sources, periodicals, etc. This course is designed to enhance the students' success in reading more complex passages with an increased level of comprehension and confidence. This is a reading class and does not count as an English credit, but it does count as 1 elective credit towards graduation.

PROJECT LIFE 101
Course: 658
Credit: 0
Duration: Year
Grades: 12+
Pre-Req: Note in Description

Project Life is a multi-year transition program for students 18-21 years old. The focus of the 100-level program is an introduction to independent living skills, social/communication skills, and development of employment skills. Students will spend part of their day at the high school learning skill development and part of their day applying their skills in a supported community job internship. The classroom component includes the following units: safety, self-determination, independence, social & communication skills, financial skills, technology, and physical and emotional well-being. Students will participate in three 10–12-week internships in community job sites.
***Pre-requisite: Students must complete all graduation credit requirements and submit an application to the Project LIFE instructor. Applications may be obtained from the students' IEP case manager. The Project LIFE committee will interview and select candidates. Project LIFE instructor's consent is required.**

SPECIAL EDUCATION COURSES

PROJECT LIFE 201
Course: 659
Credit: 0
Duration: Year
Grades: 12+
Pre-Req: Note in Description

Project Life is a multi-year transition program for students 18-21 years old. The focus of the 200-level program is an increased emphasis on independent living skills, social/communication skills, and the development of employment skills. The 200-level class may be appropriate for students who have participated in Project Life 101 or who have previous experience with employment skills. Students will spend part of their day at the high school learning skill development and part of their day applying their skills in a supported community job internship. The classroom component focuses on life skills in the three main domains of everyday living: home, community, and the workplace and includes the following units: safety skills, self-determination, independence, social and communication skills, financial skills, technology, physical and emotional well-being and micro-enterprise fundamentals.. Students will participate in three 10–12-week internships in community job sites.

***Pre-requisite Note: Students must complete all graduation credit requirements and submit an application to the Project LIFE Instructor. Applications may be obtained from the students' IEP case manager. The Project LIFE committee will interview and select candidates. Project LIFE instructor's consent is required.**

PROJECT SEARCH
Course: PROJ
Credit: 0
Duration: Year
Grades: 12+
Pre-Req: Note in Description

Project SEARCH is a vocational training program for students interested in seeking a career path after high school. This is an optional high school-to-work transition program for students seeking more training in the areas of vocational, social communication, and living skills. This unique opportunity provides a combination of classroom and three 10-week work experiences, while being completely immersed in an employment setting at the hospital, clinic, and local businesses. The goal is to become employed in a career of your choice at the completion of Project SEARCH.

***Pre-requisite Note: Students must complete all graduation credit requirements and submit an application to the Project SEARCH Instructor. Applications may be obtained from the students' IEP case manager. The Project SEARCH committee will interview and select candidates. Project SEARCH instructor's consent is required. If accepted into the program, there will be additional requirements to fulfill for the hospital.**

TECHNOLOGY EDUCATION COURSES

DC INTRODUCTION TO ENGINEERING DESIGN PS (PLTW-IED)
Course: 911
Credit: 1
Duration: Year
Grades: 9-11
Pre-Req: Concurrent enrollment in Algebra (202/205).
Fee: $10

In this course, learners use 3D solid modeling design software to help them design solutions to proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. The major focus of the IED course is to expose learners to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Course fee: $10
NOTE: Freshman will obtain Dual Credit from Mid-State Technical college with the successful completion of both IED and POE. Upper classmen are eligible to obtain the Dual Credit without having to take POE.
Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Intro to Inventor #10623114, 1 credit

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ES & DC PRINCIPLES OF ENGINEERING PS (PLTW-POE)
Course: 912
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Algebra (202/205).
Fee: $10

This survey course of engineering exposes learners to some of the major concepts they will encounter in a postsecondary engineering course of study. Learners have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts. Learners employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document their work and communicate their solutions to peers and members of the professional community. Concepts covered will include simple machines, mechanisms, statics, thermodynamics, robotics, fluid power, and many others. This course is designed for 10th or 11th grade students.
NOTE: This course is NCAA approved.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Intro to Engineering #10623115, 1 credit.

EM DIGITAL ELECTRONICS PS (PLTW-DE)
Course: 913
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Algebra (202/205)
Fee: $10

The major focus of this course is to open doors to understanding electronics and foundations in circuit design. Digital electronics is the foundation of all modern electronic devices such as cellular phones, laptop computers, digital cameras, high-definition televisions, etc. Students learn the digital circuit design process to create circuits and present solutions that can improve people's lives. Learn how advancements in foundational electronic components and digital circuit design processes have transformed the world around you.
NOTE: This course is NCAA approved.

CIVIL ENGINEERING & ARCHITECTURE PS (PLTW-CEA)
Course: 914
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Algebra (202/205)
Fee: $10

The major focus of this course is completing long-term projects that involve the development of property sites. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a property. The course provides teachers and learners freedom to develop the property as a simulation for students to model the experiences that civil engineers and architects face. Learners work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, learners use 3D design software to help them design solutions to solve major course projects. Design activities will include residential and commercial construction projects.

TECHNOLOGY EDUCATION COURSES

ENGINEERING CAPSTONE H
Course: 915
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Any PLTW Engineering or Biomedical course or instructor's consent. Open to grades 11 - 12 only.
Fee: $10

This course is designed for learners interested in STEAM (Science, Technology, Engineering, Art and Mathematics). This course's focus is to provide students with both problem/project-based learning and to challenge them to work to solve the problems of our community.
Learners may work with community and industrial leaders to create new products and solve interesting problems in specific areas of study. Learners will be expected to work in small groups and create leadership and task-oriented guidelines to further their work in engineering. Projects will vary based upon student/team interest and will revolve around any number of engineering fields.

ELECTRICITY, ELECTRONICS, AND NETWORKING TECHNOLOGY COURSES

ELECTRICITY & ELECTRONICS R
Course: 920
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $10

Learn the fundamentals of electrical and electronic systems in order to build and troubleshoot working circuits and devices. Emphasis will be on learning how to use a multimeter to test voltage, current and resistance. Examples of activities include building circuits on electrical breadboards, residential wiring, electric motors, circuit boards, soldering electronic kits, and basic computer hardware.

DC INTRODUCTION TO AUTOCAD PS
Course: 925
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Instructor Approval
Fee: None

MID-STATE TECHNICAL COLLEGE
Learners will develop practical approaches to constructing basic 2D drawings in AutoCAD software by drawing, modifying, and assigning appropriate layer properties. Learners will also analyze length and area of shapes drawn in AutoCAD, summarize details through dimensions and annotations added to the drawings, and format the drawings for printing. This course is recommended for any motivated student interested in careers in engineering and those who are interested in going into the trades and want a better understanding of print reading.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Introduction to AutoCAD #10623106, 1 credit and Intro to Inventor #10623114, 1 credit

DC COMPUTER HARDWARE SYSTEMS PS
Course: 926
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

MID-STATE TECHNICAL COLLEGE
Specialize in microprocessor and computer technology. Learn how modern computer systems work, as well as troubleshooting and upgrades for RAM, CPU's, video and expansion cards, storage devices and more. Hands-on activities include PC component installation and troubleshooting as well as complete construction of computer systems. Operating systems and basic networking are also covered in this course. This course follows guidelines established by Cisco Networking Academy and may assist you in obtaining an A+ certification through CompTIA. Involvement in SkillsUSA activities is strongly encouraged. For more information see www.netacad.com.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Hardware Essentials #10154102, 3 credits

***+DC COMPUTER NETWORKING I PS/II H**
Course: 927/928
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Junior standing
Fee: None

MID-STATE TECHNICAL COLLEGE
Develop an understanding of computer networking concepts including network design, hardware wiring systems, and IP addressing. Receive hands-on training in the assembly and configuration of networking components. Emphasis will be placed on the basic operation of routers, routing protocols, and switching. This course follows guidelines established by Cisco Networking Academy and may assist you in obtaining a CCNA (Certified Cisco Networking Associate) certification. For more information see www.netacad.com.
NOTE: First year students register for Computer Networking (927). Second year students register for Computer Networking II H (928).
NOTE: Students that successfully complete 927 can earn Dual Credit from Mid-State Technical College for Networking I #10150110, 3 credits.

+ = Juniors enrolling in this course may be able to complete certification their senior year.

**** = Seniors taking this course will require additional course work at the post-secondary level to obtain certification.***

TECHNOLOGY EDUCATION COURSES

GRAPHIC DESIGN COURSES

INTRO TO GRAPHIC DESIGN & PRODUCTION R
Course: 929
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $10

Learners will develop skills in layout and design using a variety of software programs including Adobe Creative Suite software and use tools, equipment, and processes to develop visual and graphic images that combine text and pictures. Project-based activities may include embroidery, T-Shirt Design, Poster Production, vinyl graphic design and creation, laser engraving mugs and glassware, and hydro-dipping finished products.

METAL TECHNOLOGY COURSES

DC METAL TECHNOLOGY I PS
Course: 931
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore standing
Fee: $40

MID-STATE TECHNICAL COLLEGE

Metal I is designed to expand learners' knowledge in the broad area of metal working and other manufacturing processes. Learners will be assigned several hands-on assignments that are geared to increasing one's understanding in each of the major areas of metalworking; sheet metal fabrication, machining, welding, cutting, and forming. Lectures and labs will make up the class.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Welding Fundamentals I #10-442-117, 1 credit

DC METAL TECHNOLOGY II PS
Course: 933
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Minimum of a "C" in DC Metal Technology 1 PS (931) and instructor's approval
Fee: $40

MID-STATE TECHNICAL COLLEGE

Metal Technology II is designed to further learners' knowledge in all areas of metal working and other manufacturing processes. Learners will be assigned several hands-on assignments to build a strong understanding in each of the major areas of metalworking; sheet metal fabrication, machining, welding, cutting, and forming. Lectures, demonstrations, and labs will make up the class.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Welding Fundamentals II #10-442-118, 3 credits

DC METAL TECHNOLOGY CAPSTONE PS
Course: 936
Credit: 2
Duration: Year
Grades: 12
Pre-Req: Senior standing, Minimum of a "B" in Metal Technology 2 (933) and instructor's approval.
Fee: $40

MID-STATE TECHNICAL COLLEGE

Metal Capstone is a career-based class. It is designed to focus a learner on career goals and equip them with the knowledge and resources required to pursue a career in the manufacturing industry. Several hands-on, minds-on projects will be required to deepen their understanding in all areas of manufacturing. Learners will select a career pathway and complete all the specific requirements; including, (but not limited to), resume, portfolio, job shadow, demonstration, project plan sheet, advanced projects with documentation and Reflection. Lectures and labs will make up the class.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Fabrication Fundamentals #10-457-119, 3 credits

TECHNOLOGY EDUCATION COURSES

DC WELDING THEORY PS
Course: 937
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Instructor's Approval
Fee: None

Welding Theory is a class for learners that are serious about furthering their welding knowledge and skills. Whether your plans are to pursue a welding career, or just improve your quality of work, this class might be for you. Students will learn shop safety, weld print reading, and work on skills using TIG (GTAW, MIG (GMAW), Stick (SMAW) and Oxy-Fuel Welding (OFW) processes. You will spend the majority of the time in a welding booth with guided instruction, while working towards industry competencies. This class is for learners that are self-motivated and respond well to constructive criticism. No prior welding experience is necessary.
Note: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Blueprint Reading for Welding # 10-442-112, 2 credit

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INNOVATIVE FABRICATION R
Course: 938
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: $20

Art and Tech learners will be challenged to find creative solutions to assigned projects. Art and metalworking will be combined to create work that requires technical expertise with inventiveness. Learners will create functional and aesthetic objects using techniques ranging from found object assemblage to CNC design. If you are creative and interested in using ferrous metal or if you have interest in metal tech you are invited to this cross-curricular experience.
NOTE: Learners will choose whether this class will count as an art course or a technology education course on their transcripts after the course has begun.

DC MACHINE TOOL THEORY PS
Course: 940
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Instructor's Approval
Fee: None

Machine Tool Theory is a class for learners that are serious about furthering their machining knowledge and skills. Whether your plans are to pursue a career as a machinist, or just improve your quality of work, this class might be for you. Students will learn shop safety, machine print reading, and work on skills using a metal lathe, milling machine, drills, and various cutting tools. You will spend the majority of the time on the machines with guided instruction, while working towards industry competencies. This class is for learners that are self-motivated and respond well to constructive criticism. No prior machine shop experience is necessary.
Note: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Intro to Turning Machines # 32-420-326, 2 credits

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EXPLORATORY CONSTRUCTION & METALS R
Course: 941
Credit: 1/2
Duration: Semester
Grades: 9-10
Pre-Req: 9-10 only
Fee: $10

This semester-long exploratory class introduces learners to shop safety in both a metals and construction lab. Students will learn basic print reading and fabrication skills in a hands-on approach in both areas. The purpose of the combined class is to show how they can relate to one another but also to allow students to explore both industries before deciding which path to continue on.

DC ADVANCED MANUFACTURING I PS
Course: 950
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

This course introduces learners to many aspects of computer-aided design and manufacturing. During the course, learners will be exposed to numerous CNC equipment throughout the MHS Technology Education department. Learners will work through the process of programming, setup, and running of CNC equipment. Each piece of equipment will have a hands-on project that students will design and create. This class is intended for learners that are interested in pursuing a career in the areas of machining, programming, and engineering. (It is recommended that students take Advanced Manufacturing I & II during the same school year if possible).
Note: Students that successfully complete this course and Advanced Manufacturing II can earn Dual Credit from Mid-State Technical College for Intro to Milling Machines # 32-420-337, 2 credits

TECHNOLOGY EDUCATION COURSES

DC ADVANCED MANUFACTURING II PS
Course: 951
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

This course is designed to further enhance learners' knowledge of computer-aided design and manufacturing. During the course, learners will continue to develop their manufacturing skills on numerous pieces of CNC equipment. Learners will become proficient in the process of programming, setup, and running of CNC equipment. Each piece of equipment will have an in-depth hands-on project that students will design and create. This class is intended for learners that are interested in pursuing a career in the areas of machining, programming, and engineering. It is recommended that students take Advanced Manufacturing I & II during the same school year if possible.
Note: Students that successfully complete this course and Advanced Manufacturing I can earn Dual Credit from Mid-State Technical College for Intro to Milling Machines # 32-420-337, 2 credits

CONSTRUCTION TECHNOLOGY COURSES

CONSTRUCTION TECHNOLOGY R
Course: 942
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: None
Fee: $40

Learners will be introduced to the use of modern materials and processes associated with cabinet making and millwork with a hands-on approach. Areas include: hand and power tool processing, wood machining, wood finishing and introduction into carpentry. Expect to follow lab safety procedures.

DC ADVANCED CONSTRUCTION TECHNOLOGY PS
Course: 945
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Construction Technology II (942) or instructor's consent
Fee: $40

This course will provide learners the opportunity to explore the construction trades in a classroom and lab environment. Learners will develop a variety of technical skills associated with residential construction. Areas include safety procedures, building layout, rough construction, finish carpentry, masonry, electrical wiring, and cabinet making and millwork. This course is part of the Architecture, Construction, and Engineering Academy, but learners may take the course without signing up for the Academy.
Note: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Construction Fundamentals # 10-482-107, 2 credits

DC CONSTRUCTION TECHNOLOGY CAPSTONE PS
Course: 947
Credit: 2
Duration: Year
Grades: 12
Pre-Req: Senior Standing, Capstone Application, Advanced Construction Technology (945)
Fee: $40 plus project material fee

This course is a continuation of Advanced Construction. The content learned in Advanced Construction will be the foundation for Construction Capstone. Learners will continue to acquire knowledge and skills needed for the construction trades and related occupations. Learners must be accepted into the Architecture, Construction, and Engineering Academy, enrollment is limited. Acceptance into the program will be by application. Expect to follow lab safety procedures.
Note: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Blueprint Reading for Construction Trades # 10-601-120, 2 credits and Electricity for the Construction Trades # 10-601-140, 2 credits

HOME MAINTENANCE R
Course: 949
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior or Senior standing preferably with a driver's license.
Fee: None

This course will focus on the lifelong skills and knowledge needed to maintain and improve one's residence. Learners will explore equipment, techniques, and procedures essential to maintain a home. Students will learn and practice repair techniques including electrical, plumbing, drywall work, seasonal upkeep, etc. Safe practices and problem solving will be emphasized in a hands-on collaborative environment.

TECHNOLOGY EDUCATION COURSES

AUTOMOTIVE TECHNOLOGY COURSES

OUTDOOR POWER EQUIPMENT R
Course: 953
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: $5

Outdoor Power Equipment is a laboratory-based course. During the first semester, students will disassemble and assemble a school owned small gasoline engine and be introduced to some basic electricity. During the second semester, students will learn the theory and operation of products of their own.
NOTE: Priority given to 9th and 10th grade students. If the class is not filled, 11th and 12th grade students may take the class.

DC AUTOMOTIVE TECHNOLOGY PS
Course: 956
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Outdoor Power Equipment (953),
Fee: $10

Automotive Technology is a laboratory-based course designed to introduce learners to automotive maintenance, repair, and beginning diagnosing. The first semester will include automotive maintenance, basic systems repair, online service manuals, cooling, starting, and charging systems. During the second semester, the student will learn about fuel, ignition, brake, steering, and suspension systems and be introduced to basic scan tool operation.
Students will be encouraged to prepare for the ASE (Automotive Service Excellence) exams.

DC AUTOMOTIVE TECHNOLOGY CAPSTONE PS
Course: 962
Credit: 2
Grades: 11-12
Pre-Req: Automotive Technology (956)
Fee: $10

During this laboratory-based capstone course, learners will experience what it takes to run an automotive business. This class will be run as a practicum, where students hold different positions within an automotive business. Learners will work on soft skills required to work in many technical areas, while at the same time, gain a more in-depth understanding of the automobile system theories of engine performance, transmissions, brakes, steering, suspension, and HVAC by completing live work on vehicles. Students are strongly encouraged to apply for Youth Apprenticeship. Students will be encouraged to prepare for the ASE (Automotive Service Excellence) exams.
NOTE: Students that successfully complete this course can earn Dual Credit from Mid-State Technical College for Service Practices in the Transportation Industry # 32-404-375, 1 credit

ADVANCED AUTOMOTIVE TECHNOLOGY CAPSTONE R
Course: 965
Credit: 2
Duration: Year
Grades: 12
Pre-Req: DC Automotive Technology Capstone (962).
Fee: $15

This course is an extension of the Automotive Technology Capstone course, designed as a career-based course. Learners will gain valuable leadership skills, be a team leader within the automotive business, and mentor the Automotive Technology Capstone students. Learners will perform advanced level diagnosis and repair of automobiles, while at the same time create a marketable pathway by developing a resume, portfolio, completing a job shadow, and completing ASE (Automotive Service Excellence) Exams. Students are strongly encouraged to apply for Youth Apprenticeship.

TECHNOLOGY EDUCATION COURSES

YOUTH APPRENTICESHIP
Course: 993 or 994
Credit: 1 per year
Duration: Year
Grades: 11-12
Pre-Req: Junior or Senior standing, application form, and eligible employment
Fee: None

For more information, please see page 16
Juniors should sign up for course #993
Seniors should sign up for course #994

ARCHITECTURE, CONSTRUCTION, AND ENGINEERING ACADEMY

The Architecture, Construction and Engineering Academy is a multi-year educational program that integrates academic advising with technical instruction in construction related fields, identifying the relevance of one to the other. Applications for this academy should be completed during registration of your freshmen and sophomore year.
Questions about this program should be directed to Mr. Aaron Scheuer at the high school.
PREREQUISITE: Sophomore Standing and Construction Technology (942)

PROJECT LEAD THE WAY (PLTW) is a national pre-engineering program established to help schools give students the knowledge they need to excel in high-tech fields. Studies of PLTW's curriculum have proven that PLTW students become the kind of prepared, competent, high-tech employees U.S. industry needs to stay competitive in the global market. With its strong partnership concept, PLTW leverages the collective knowledge and efforts of secondary schools, colleges and universities, and industry to give students rigorous, relevant, reality-based knowledge to better prepare them for college. Furthermore, the research shows, and continues to confirm, that students introduced to engineering principles, concepts, and real-world problems in high school are better prepared for college engineering programs – and more likely to be successful. Introduction at the high school level will allow students, while still in school, to determine if engineering is the career they desire.

PLTW is a four-year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. Classes can be taken in sequence over four years or taken as schedules allow. PLTW is a hands-on, project-based approach to learning that better prepares students for the rigors of college. The pre-engineering program incorporates math, science, English, and technology skills needed for success. For additional information visit the PLTW website: www.pltw.org.

WORLD LANGUAGES COURSES

FRENCH

FRENCH I R Course: 500 Credit: 1 Duration: Year Grades: 9-12 Pre-Req: None Fee: None	Discover the French language and the cultures of France and other French-speaking countries around the world! Speak and listen to French while watching movies, listening to French music, and playing games. Develop reading, writing, and speaking skills. Learn how to start a conversation in French, learn about Parisian monuments, French schools, leisure activities, food, friendships, and family life. Even learn how to order food at restaurants and cafés! Celebrate French holidays and enjoy some wonderful French cuisine! **NOTE: This course is NCAA approved.**
FRENCH II R Course: 501 Credit: 1 Duration: Year Grades: 9-12 Pre-Req: French I (500) Fee: None	One step closer to your dream of traveling abroad! Continue learning French vocabulary through topics of food and shopping, home, sports, clothing, weekend activities, and daily routines. Increase your knowledge of the French-speaking world by exploring the province of Quebec, listening to French music and watching authentic French films. Play games and act out skits to deepen your appreciation of the French language. French holidays and French food are sure to be a highlight of the class. **NOTE: This course is NCAA approved.**
***FRENCH III H** Course: 502 Credit: 1 Duration: Year Grades: 10-12 Pre-Req: French II (501) Fee: None	Make your French language skills come alive! You will continue your travels to French-speaking countries far and wide. Learn all about the high-profile tourist destinations in Paris as well as all about other French-speaking countries around the world. Make travel arrangements, reserve a hotel room or youth hostel, navigate the metro and the airport, and explore a variety of activities from all walks of life. A variety of writing and speaking styles accompany plenty of films, games, food, music, and holiday celebrations in this course. **REQUIREMENTS: Success comes with the completion of assigned homework and with using as much French as possible in class.** **NOTE: This course is NCAA approved.**
***FRENCH IV H** Course: 505 Credit: 1 Duration: Year Grades: 11-12 Pre-Req: French III H (502) Fee: None	Here's one more year closer to French fluency! Develop a greater ability to communicate and understand French while using real-life documents, videos, websites, and more in class. Learn to use your language skills through topics such as sports and fitness, weddings, professions, housing, schooling, cinema, literature, and the arts in the French-speaking world. Read your first French novel, *Le petit prince*, and create your own stories in this class. Authentic Francophone movies, music, and food pair well with this language course. On y va! **REQUIREMENTS: Success comes with completion of assigned homework and with using as much French as possible in class.** **NOTE: This course is NCAA approved.**
FRENCH THROUGH FILM R Course: 510 Credit: 1 Duration: Year Grades: 10-12 Pre-Req: Completion or Concurrent Enrollment in French IIIH Fee: None	In this course, students will explore a variety of cultural topics relevant to the French and Francophone world through film. Students will spend time before each film learning about the cultural topic (education, housing, immigration, etc.) prior to beginning each film as well as learning relevant vocabulary relating to the topic. During and after the film, students will discuss in French what they observe and comprehend. After each film, students will write a variety of work ranging from critiques to interview with characters in French based on the films watched.

***Students in these advanced classes should have the ability to either test out of college foreign language requirements or to place into more advanced level university foreign language courses, and thereby earn retroactive credits.**

WORLD LANGUAGES COURSES

***+AP FRENCH LANGUAGE & CULTURE PS**
Course: 508
Credit: 1
Duration: Year
Grades: 12
Pre-Req: French IV H (505)
Fee: None

Continue your path to French fluency while using real-life documents, videos, websites and more in class. You will watch French films, listen to French musicians, cook French recipes and immerse yourself in French! Mais oui! Review grammar concepts while increasing your communication skills and participate in everyday conversations to prepare you for travels abroad. You will also perform skits, play games, celebrate holidays, enjoy films and savor cuisine from around the francophone world. This course is the equivalent to a fourth semester college course in French language. Students who elect to take the AP® French Language Examination at the end of this course have the opportunity to earn University credit at many universities. In addition, retroactive credits may be earned.
REQUIREMENTS: Success comes with completion of assigned homework and with using as much French as possible in class.
NOTE: This course is NCAA approved.
NOTE: This course may be combined with French IV dependent on enrollment numbers.

SPANISH

SPANISH I R
Course: 524
Credits: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

Enjoy the expression of conversation in Spanish. Work on oral practice and listening comprehension, as well as the development of reading and writing skills. Understand the culture of Spain, Latin America and the Hispanics living in the United States. By the end of the year students will be able to introduce themselves, share likes and dislikes, share information about pastimes and daily activities in the present tense.
NOTE: This course is NCAA approved.

SPANISH II R
Course: 525
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Spanish I (524)
Fee: None

Students will continue progressing in the Spanish language by developing conversational, written, and listening skills as well as knowledge and appreciation of a variety of Hispanic cultures. By the end of the year, students will have further developed their knowledge of the present tense, in addition to other grammatical structures in the target language.
NOTE: This course is NCAA approved.

***SPANISH III H**
Course: 526
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Spanish II (525)
Fee: None

Increase proficiency in all aspects of the language, speaking, reading, writing, listening and cultural awareness throughout the Spanish-speaking world. Pre-AP activities and assessments are included, to introduce students to higher level thought processes in the language.
NOTE: This course is NCAA approved.

SPANISH III R
Course: 527
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Spanish II (525)
Fee: None

Increase proficiency in all aspects of the language, speaking, reading, writing, listening and cultural awareness throughout the Spanish-speaking world. This course is intended to be an alternative to Spanish III Honors, with level-appropriate assessments.
NOTE: This course is NCAA approved.

WORLD LANGUAGUES COURSES

***SPANISH IV H**
Course: 528
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Spanish III H (526) or instructor's consent
Fee: None

Students will strengthen conversational skills while working at a more advanced level. To gain fluency, students are expected to speak only Spanish in class and the majority of class will be conducted in the target language. Students will also improve reading, writing, and listening skills along with using critical thinking skills to perform tasks related to the Spanish language and Hispanic culture. As part of the reading selections, students will read authentic texts which include short stories and essays as well as compare and contrast cultural activities and attitudes. Many pre-AP activities are included to introduce students to higher level thought processes in the language.
NOTE: This course is NCAA approved.

***+AP SPANISH PS**
Course: 530
Credit: 1
Duration: Year
Grades: 12
Pre-Req: Spanish IV H (528) and/or instructor's consent
Fee: None

Students will continue to develop fluency and accuracy in the Spanish language applicable to various activities and disciplines focusing on six themes. Contemporary life, Families and Communities, Global Challenges, Beauty and Aesthetics, Personal and Public Identities, and Science and Technology. This course is equivalent, both in content and difficulty, to a fourth semester college Spanish language course. All communication skills: speaking, listening, reading, writing, are emphasized in a cultural and authentic context. Students are encouraged to take the AP exam, which may provide college credit by most colleges and universities. Retroactive credits may also be earned through a university placement test. As per the College Board: In order to best facilitate the study of language and culture, the course is taught in the target language. Class participation is required. Students will be expected to speak only Spanish in class.
NOTE: This course is NCAA approved.

***Students in these advanced classes should have the ability to either test out of college foreign language requirements or to place into more advanced level university foreign language courses, and thereby earn retroactive credits.**

+ An online version of this course may be offered instead of in-person learning dependent on enrollment numbers.

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