MARSHFIELD HIGH SCHOOL

COURSE CATALOG

2023-2024

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 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.

Student Daily Attendance

As a result of current state legislation, no student is excused from school before afternoon dismissal for any reason other than to participate in school functions or activities deemed acceptable by the Marshfield 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.
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.
2. **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.
3. 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.**
4. 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.
5. 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.
6. 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.
7. 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.
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. The
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 7^{th} semester
- Juniors graduating one year early must complete early graduation application by the end of first quarter of their 5^{th} 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.

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.
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 Biotechnology- 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.

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.

The ripple effect of mass numbers of students changing their schedules is immense. The Marshfield High School administration uses those course numbers to determine staffing for the upcoming school year. Those numbers must be solid in order to set the best course for our high school. In the past, in the months leading up to the new school year- students changed their schedules often- to the point that for some, the student's original schedule was unrecognizable. The problem was we had based our plans on the student's original selections. All of these changes made certain classes overcrowded and overall staffing shaky at best!

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 without moving other classes.

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 meet to 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. 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 and approximately two weeks after the conclusion of summer school, but will not be published. 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

Courses with low enrollment numbers may not be offered. Students will be offered courses from their alternative choices selected during the registration process to replace the credit/s.

Grade Point Computation Table

	POST-SECONDARY (PS4)		HONORS (PS3)		REGULAR (PS1)		
GRADE	**1**	**1/4**	**1**	**1/4**	**1**	**1/4**	**CREDIT**
A	4.500	1.125	4.250	1.062	4.000	1.000	1
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.							

Credits Beyond High School

	Advanced Placement (AP)	Dual Credit (DC)
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.
SITE	Marshfield High School	Marshfield High School
TAUGHT BY	Marshfield High School Teachers	Marshfield High School Teachers
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.
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).
COST	Student fee for optional AP exam	None

***Please note dual credit courses are subject to change.**

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 required 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. If students submit the ACT, UW-Madison requires the Writing Test also.

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.

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.

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 you must complete a program application and interview with employers in the Fall of your junior year. Applications are available from the school counseling office, Mrs. Fredrick, or http://www.marshfieldschools.org/cte.

Sports Medicine Internship

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 first-hand training and development of employability skills deemed critical by employers in or community. These courses are an elective option for seniors who are on pace for graduation to earn elective credit through employment.

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 14+ required credits
- Earned 6+ elective credits
- Approved employment with an area employer
- Good standing at MHS

- Senior Status
- Employment (Verified in September/January)
- Good Academic Standing

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
Duration: Semester
Grade: 12
Pre-Req:

- Successful completion of Work-Based Learning I is highly recommended
- Senior Status
- Employment (verified in January)
- Good academic standing

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

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. Students are simultaneously enrolled in academic classes to meet high school graduation requirements, in a youth apprenticeship related instruction class, actively involved in a Career and Technical Student Organization (FBLA, FCCLA, FFA, HOSA, and/or SkillsUSA), and are employed by a participating employer under the supervision of a skilled mentor. Upon successful program completion, students are eligible to earn a state-issued skill certificate. After graduation, YA students move straight into the workforce, registered apprenticeship, or continue their education at a post-secondary institution.

YA Program Areas:

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

Timeline & Requirements:

Level One

YA 1
993

- 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

Level Two

YA 2
994

- Junior AND 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

For more information or to apply to Youth Apprenticeship visit https://www.marshfieldschools.org/cte, email Mrs. Fredrick at fredrickj@marshfieldschools.org or stop by the Counseling Office. Applications for this competitive program are accepted from Sophomore year through 1st quarter of Senior year.

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 Biotechnology- 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
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
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 BIOTECHNOLOGY
Course: 975
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing
Fee: None

Explore the everchanging world of agricultural biotechnology. Hands-on classroom investigations will include gene splicing, DNA extraction, DNA fingerprinting, forensics, tissue culturing, and PCR testing. Use the electrophoresis lab and greenhouse as tools to study DNA. Participate in a field trip to UW-Madison Biotechnology Center and other labs to tour cutting-edge facilities and use them to complete lab activities.
NOTE: This is a NCAA approved course.

ES PLANT & SOIL SCIENCE
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**
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 zoo keeper, 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.

AGRICULTURE COURSES

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

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.

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 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 ENTREPENEURSHIP
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
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, application form and instructor's consent
Fee: None

For more information, please see page 14
Juniors should sign up for course #993
Seniors should sign up for course #994

ART COURSES

DESIGN 1
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 limited investigations of architectural and 3-D modeling in digital forms.

2-DIMENSIONAL ART PRINCIPLES
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 an immense 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
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 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 their own ideas through the elements and principles of art and design, students will explore the ideas of specific artists and their work. 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
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
Course: 712
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee $20

The Painting 1 course will introduce students to practice in 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
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, working with concrete, welding steel, 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 the inspiration and guide in creating modern to contemporary works of sculpture. Projects 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”, or instructor’s consent
Fee: $10

Students will refine their skills with a variety of drawing materials in this course. Chalk pastel portraiture, printmaking, 2- and 3-point perspective, as well as the study of bones will be covered throughout the semester. 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”, instructor’s consent
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", instructor's consent
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
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.

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", or instructor's consent
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" or instructor's consent
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
Course: 726
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $15

Students will create a variety of handmade 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", instructor's consent
Fee: $15

Students will continue to refine and expand advanced jewelry making techniques that build 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 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 plus additional cost for metal used.

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. By thoughtful and higher-level investigation, students in Jewelry 3 will create a cohesive body of work focusing on a theme or idea. 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 & 742A
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 & 743A
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 & 744A
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
Course: 745
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: $20

In this hands-on art course, students in Photography 1 will explore in-depth the fundamental principles, techniques, and application of digital camera-based image making as well as post-processing techniques using a digital SLR camera, Adobe Photoshop, and Adobe Lightroom. 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
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
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
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

MID-STATE TECHNICAL COLLEGE

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.
NOTE: In addition, dual credit will be granted from MSTC for Accounting I (3 credits) #10101140 upon successful completion of BOTH semesters of DC College Accounting.

BUSINESS & TECHNOLOGY INFORMATION

DC COLLEGE ACCOUNTING II PS
Course: 846
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior Standing & DC College Accounting I (845)
Fee: None

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 four credits from MSTC.
NOTE: In addition, dual credit will be granted from MSTC for Accounting I (3 credits) #10101140 upon successful completion of BOTH semesters of DC College Accounting.

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

Looking for a competitive advantage in college or tech school and your chosen career path? 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, sometimes challenging, 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: Algebra I (205) or Algebra I H (206)
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 is designed to prepare students for Game Programming and/or AP Computer Science A. 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.

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:
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.

BUSINESS & INFORMATION TECHNOLOGY

SPORTS AND EVENT MARKETING
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.
REQUIREMENT: This is a college level course requiring additional out-of-class time commitment.

AP COMPUTER SCIENCE PRINCIPLES PS
Course: 888
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Algebra I, Sophomore Standing, or 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

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 or Business/Marketing fields. Enrollment in this course will require participation in after-school events to support the Capstone projects, including the Tiger School Store.
NOTE: In addition, dual credit will 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.

ETECHNOLOGIES
Course: 896
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: Teacher/Counselor Recommendation
Fee: None

ETechnologies is a course designed for those students who need an introductory class in technology before taking other technology electives. Students will discover and develop personal and professional skills through the exploration of Web 2.0 technologies such as video and presentation-making skills, web-based web development, photo-editing, presentations, and simple computer programming. This course is designed to be an introductory course for Web Design, Computer Programming, and other technology-based courses. Career options in information technology (IT) will also be reviewed. This course is the gateway to many other IT pathway courses.

YOUTH APPRENTICESHIP
Course: 993 or 994
Credit: 1 per year
Duration: Year
Grades 11-12
Pre-Req: Junior Standing, application form and instructor's consent
Fee: None

For more information, please see page 14.
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 or Advanced Placement English Language/US History
(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 Honors or AP English Language/US History
(1 credit required)

Semester Electives

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

Year-long Electives:

1. AP Seminar PS

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. English Composition H
8. AP Seminar PS

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 is a NCAA approved course.

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 is a NCAA approved course.

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

Develop writing, and practice critical thinking and discussion in a class suited to skills and learning style. Read short stories, novels, poetry and drama from writers around the world. Increase research and note taking skills. Write the I-Search paper.

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 is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

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 ofthe 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 is a NCAA approved course.

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

This course focuses on developing, speaking, verbal and non-verbal communication and listening skills for the workplace and/or technical college experience. Students will apply learning targets and course competencies through individual presentations, group activities and other projects. . Students will give several speeches to help improve their communication and listening skills. The goal of this course is to become better communicators for success in the student's community, workplace, and/or technical college.

ENGLISH COMPOSITION H
Course: 417
Credit: 1
Duration: Year
Grades: 12
Pre-Req: Senior Standing and teacher recommendation
Fee: None

English Composition is for the motivated student who wants to prepare to write for college. Students will focus on techniques of composition with an emphasis on academic writing, applicable across disciplines. The writing process—researching, prewriting, drafting, editing, conferencing, and revising—will be emphasized. Essays may include: College Application, Cause/Effect, Definition, Division and Classification, Process Analysis, Compare/Contrast, and Persuasive. Students will prepare for college placement exams by studying grammar, mechanics, and usage. Students will also be required to read a nonfiction book and write a critical review each quarter.
NOTE: This is a NCAA approved course.

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 is a NCAA approved course.

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: 12 and a willingness and ability to work diligently at an increased pace with rigorous materials.
Pre-Req: Senior 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 is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

AP SEMINAR PS
Course: 432
Credit:1
Duration: Year
Grades: 11-12
Pre-Req: None
Fee: None

****NEW COURSE UNDER REVIEW****

This AP course is unlike any other, in a great way! Students will get to investigate topics that interest them whether that be in science, social studies, languages, politics, economics, math or any other academic discipline. You will learn collegiate research skills and apply those skills to write research-based essays and design and give presentations both individually and as part of a team.

Skills you will learn and be assessed on include:

- reading and analyzing articles, studies and other texts
- gathering and combining information from sources
- viewing an issue from multiple perspectives
- crafting arguments based on evidence

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 perform a project-based assessment within the theatre. Students will also research a specific show of interest, apply dramaturgy to the script, and assist with the musical/play after passing safety protocol with sound/lights and construction.

ENGLISH COURSES

SPEECH I: INTRODUCTION TO SPEAKING
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 is a NCAA approved course.

MTSS READING INTERVENTION
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
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
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
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
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
Course: 784
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: None
Fee: $10

MID-STATE TECHNICAL COLLEGE

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
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
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
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 work 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
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
Course: 796
Credit: 3
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 and interview with employers in the Fall of your junior year. Applications are available from the school counseling office, Mrs. Fredrick, or http://www.marshfieldschools.org/cte

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

Volunteer as an Athletic Training Student Aide for 60 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. Course requirements include a log of 60 hours, journal entries, performance cards, and evaluations with a Licensed Athletic Trainer.

YOUTH APPRENTICESHIP
Course: 993 or 994
Credit: 1 per year
Duration: Year
Grades: 11-12
Pre-Req: Junior standing, application form and instructor's consent
Fee: None

For more information, please see page 14.
Juniors should sign up for course #993
Seniors should sign up for course #994

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

For more information, please see page 13.

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 1Essential Concepts R or Algebra 1R
11- Geometry Essential Concepts R or Geometry R
12- Algebra 2 R or DC Technical Math1

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
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/H
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 or Algebra 1 Essential Concepts R
10- Geometry R/H or Geometry Essential Concepts R
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 or Algebra 1 Essential Concepts R
11- Geometry R or Geometry Essential Concepts 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.
Students learn Pre-Algebra Standards. They will develop the essential algebraic concepts and skills necessary for further math study.
NOTE: A calculator is required for this course

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.
Students learn essential Algebra 1 Standards at a reduced pace and depth of knowledge. They will develop the essential algebraic concepts and skills necessary for further math study.
NOTE: A calculator is required for this course.

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.
Students will learn essential Geometry Standards at a reduced pace and depth of knowledge. They will develop the essential geometric concepts and skills necessary for further math study.
NOTE: A calculator is required for this course.

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

Develop the algebraic concepts and skills necessary for further math study. Use properties to evaluate expressions and operations on polynomials. Writing, solving, and graphing linear equations and inequalities using multiple representations. Solving systems of linear equations and quadratic equations using multiple representations.
NOTE: A calculator is required for this course. It may be a scientific or graphing calculator.
NOTE: This is a NCAA approved course.

MATHEMATICS COURSES

ALGEBRA 2 R
Course: 207
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Geometry R (211) or Geometry H (212) or Geometry Essential Concepts R (203)
Fee: None

This course involves the study of linear functions, complex numbers, absolute value equation, systems of equations, quadratic equations and functions, polynomial equations and functions, inverses and radical functions, exponential and logarithmic functions, rational functions, trigonometric functions, sequence and series, probability, and statistics.
NOTE: A graphing calculator is highly recommended.
NOTE: This is a NCAA approved course.

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

This course involves the study of linear functions, complex numbers, absolute value equations, systems of equations, quadratic equations and functions, polynomial equations and functions, inverses and radical functions, exponential and logarithmic functions, rational functions, trigonometric functions, sequence and series, and statistics. If time permits matrices and conic sections may also be covered.
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. Considerable amount of time on homework is expected outside of class.
NOTE: A graphing calculator is required for this course.
NOTE: This is a NCAA approved course.

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

Emphasizes algebraic techniques with polynomials, rational expressions, exponents and radicals, linear and quadratic equations, and 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 is a NCAA approved course.

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 high school math and Math 107 H (209) or teacher recommendation
Fee: None

Marshfield UW-Stevens Point

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 is a NCAA approved course.

MATHEMATICS COURSES

GEOMETRY R Course: 211 Credit: 1 Duration: Year Grades: 9-12 Pre-Req: Algebra 1 Essential Concepts R (202), or Algebra 1 R (205) or Algebra 1H (206). Fee: None	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. Reason proportionally and solve trigonometric equations. Use the coordinate plane to characterize geometric properties. Learn to construct basic Algebraic and Geometry Proofs. **NOTE: A calculator is required for this course. It may be a scientific or graphing calculator.** **NOTE: This is a NCAA approved course.**
GEOMETRY H Course: 212 Credit: 1 Duration: Year Grades: 9-12 Pre-Req: Algebra 1 H (206) or a grade of at least "B" in Algebra 1R (205). Fee: None	Learn plane and solid geometry, apply theorems while developing logical reasoning and problem solving through original proofs, non-routine problems, and an introduction to analytic 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. 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 is a NCAA approved course.**
AP PRE-CALCULUS PS Course: 220 Credit: 1 Grades: 9-12 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: This is a 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	Study limits, derivatives, and integrals. After learning techniques of differentiation, apply derivatives to function analysis, rates of change, and optimization. After learning techniques of integration, use integrals to find areas, volumes, displacement, and net change. Examine slope fields and significant mathematical theorems. This course is equivalent to one semester of college calculus and up to 5 college credits may be earned if you are successful on the AP exam. **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: This is a NCAA approved course.**

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 all the topics of AP Calculus AB (221) and more. After mastering more complex techniques of integration, apply concepts to polar and parametric equations. Investigate the convergence of infinite series, and construct Taylor Polynomials. This course is equivalent to two semesters of college calculus, and up to 10 college credits may be earned if you are successful on the AP exam.
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. 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: This is a NCAA approved course.

DC/AP STATISTICS PS
Course: 223
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Algebra 1 (205 or 206), Geometry (211 or 212) and Algebra 2 (207 or 208)
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. Considerable amount of time on homework is expected outside of class.
NOTE: A graphing calculator is required for this course. NOTE: This is a NCAA approved course.
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 $400 for the 4 college credits.

DC TECHNICAL MATH 1 PS
Course: 226
Credit: 1
Duration: Year
Grades 11-12
Pre-Req: Junior or Senior Standing and completion of two credits of high school math
Fee: None

This 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 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.

MATHEMATICS COURSES

MTSS MATH INTERVENTION
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 and band camp prior to the start of the year. 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, Woodwind and Brass Choir. Course fee: Students must provide black shoes, black socks, and reeds, which are available for purchase.
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 and band camp prior to the start of the year. 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, Woodwind and Brass Choir. Course fee: Students must provide black shoes, black socks, and reeds, which are available for purchase. **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 freshman 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, Woodwind and Brass Choir. Course Fee: Students must provide black shoes & socks, reeds, which are available for purchase. **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**.
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 or string bass and/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, or string bass and or instructor's approval. 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, or string bass and or instructor's approval. 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 and will be charged a $50 rental fee. Students participating in Solo & Ensemble must purchase their music.

MUSIC COURSES

TREBLE CHOIR
Course: 774
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: None
Fee: None

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, Pop, Spring, and Graduation.

CONCERT CHOIR
Course: 775
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Junior Standing, unless otherwise approved by the director and audition.
Fee: None

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**,** Graduation, and local performances. Madrigal Singers are chosen from this group.

AP MUSIC THEORY
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.

SOUNDSCAPE
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 and will be charged a $50 rental fee. Students participating in Solo & Ensemble must purchase their music.

PHYSICAL EDUCATION/HEALTH/DRIVERS ED

FIT FOR LIFE
Course: 600
Credit: 1/2
Duration: Semester
Grades: 9-10
Pre-Req: Open to freshmen, sophomores taking Physical Education for the first time, and transferring sophomores only.
Fee: Fees may apply for field experience

Fit for life is required for graduation and is the building block for other physical education elective courses at MHS. Through this course, students will learn the WHY and HOW a particular physical activity affects their mind, body, and personal health. Students will learn why physical activity and fitness are important to their health & well-being and learn how they can achieve a healthy level of fitness. In this course, student will explore a variety of lifetime activities, dance & rhythms, and fitness activities. Participation in these units will provide students with an opportunity to develop an interest in a variety of physical activities. The major emphasis is placed on the development of attitudes, skills, and knowledge necessary for complete enjoyment of lifelong physical activities.
REQUIRED: Appropriate active wear, athletic shoes, and iPad.

PERSONAL TRAINING-PERFORMANCE ENHANCEMENT
Course: 601
Credit: 1/2
Duration: Semester
Grades 10-12
Pre-Req: Sophomore Standing, Fit for Life
Fee: Fees may apply for field experience

Participants will analyze their current level of fitness, set goals, and develop a personal workout plan to meet those goals. Students will be exposed to a variety of concepts that affect performance, such as Periodization, nutrition, motivational tools, training psychology, and optimal wellness. Activities may include: strength training, endurance conditioning, flexibility training, fitness assessment, goal setting and fitness plan development, nutritional analysis, and sport specific drills to enhance speed, power, agility, balance, core strength, and coordination development. Personal responsibility and daily effort will be assessed with daily logs.
REQUIRED DAILY: Shorts, t-shirt, and athletic shoes (to remain at school), occasionally one-piece swimsuit will be needed.

OUTDOOR PURSUITS
Course: 602
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing, Fit for Life
Fee: Fees may apply for field experience

Develop the knowledge and skills necessary to participate in many outdoor fitness, sport, and recreational activities. Outdoor pursuits units include hiking, water games, backpacking, mountain biking, archery, scuba, snorkeling, climbing skating, camping, snowshoeing, winter games, and cross-country skiing.
REQUIRED: Appropriate active wear for weather, including footwear.

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

Develop leadership skills as you are taken through a progression of problem-solving, trust, and communication activities to prepare you for advancement to the low and high ropes activities including the Red Rock climbing wall. Learn to set-up/take down the ropes course, spotting and belaying skills, climbing technique, risk management, climbing commands, and safety procedures. Additional units consist of; mountain biking, disc golf, camping, orienteering, archery, fitness activities, and water challenges.
REQUIRED: Appropriate active wear and athletic shoes.

SPORTS CHALLENGE TEAM
Course: 604
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing, Fit for Life
Fees: Fees may apply for field experience

Be a team player! Team sports are competitive, challenging, enjoyable, and provide lots of opportunity for social interaction. Improve your fitness, knowledge, skills, and confidence in a variety of team sports. Rules, strategies, equipment, injury prevention, and sport-specific conditioning/training are discussed in this course. Develop and lead practice sessions as well as conditioning programs. Activities include: Tennis, Softball/Kickball, Ultimate Frisbee/Football, Volleyball, Bowling, Lacrosse, Floor Hockey, Basketball, H20 Sports and Soccer.
REQUIRED: Appropriate active wear and athletic shoes

PHYSICAL EDUCATION/HEALTH/DRIVER'S ED

AQUATICS
Course: 605
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing, Fit for Life
Fees: None

Gain the knowledge, skills, and confidence to safely participate in a variety of aquatic activities in, on, and around water. Activities are water awareness, stroke development, scuba diving, snorkeling, rescue and survival skills, canoeing-kayaking, water games, duathlon-triathlon training, and physical fitness.
REQUIRED: One-piece swimsuit, t-shirt, shorts, athletic shoes.

ULTIMATE CHALLENGE
Course: 606
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing, Fit for Life
Fees: Fees may apply for field experience

Experience some of the more contemporary physical activities that are becoming so popular and that offer physical challenge, enjoyment, creative expression, and social interaction. Activities may be but are not limited to Ultimate Frisbee, Braem Park-disc golf/skateboard/BMX/walk/hike/baggo/ultimate tennis, Bowling, Water Sports, Show Shoe/Ski, Ice Hockey, Snow Games, Table Tennis/Baggo, Rock Wall and Asteroids.
REQUIRED: Appropriate active wear, athletic shoes and protective gear (Helmets and protective pads will be provided.)

SPORTS CHALLENGE-INDIVIDUAL/DUAL
Course: 607
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing, Fit for Life
Fees: Fees may apply for field experience

This course will give you an opportunity to experience many lifetime activities that you can do by yourself or with another person. Activities include: Tennis, Disc Golf, Biking, Golf, Bowling, Weight Room, Cross Country Ski/Snow Shoe, Badminton/Table Tennis/Baggo, Spike Ball and Swimming.
REQUIRED: Appropriate active wear and athletic /dance shoes to remain in locker.

MOVEMENT DANCE-GYMNASTICS
Course: 608
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing, Fit for Life, and an interest in dance
Fees: Fees may apply for field experience

In this course the learner will have the opportunity to increase health-related physical fitness by participating and exploring a variety of physical activities in dance, gymnastics, and fitness. The learner will experience new and current trends in fitness, nutrition, and stress-management as well as explore dance and gymnastics as forms of physical activity and self-expression. Activities to improve aerobic fitness, muscular fitness, flexibility, and body composition will include but are not limited to: **dance forms** such as creative movement and dance, ballet, modern, ethnic/folk, hip hop, Latin, line, ballroom, social, and square, **gymnastics activities** such as floor exercises, beams, uneven bars, and vaulting, and **fitness activities** such as resistance training, yoga, Zumba, exergaming, TRX, endurance training, and Pilates. By the end of the course the learner will develop competency in dance and gymnastics and understand how to assess and enhance their personal health, reduce risks throughout life, and ultimately experience a healthy lifestyle.
REQUIRED: Appropriate active wear, athletic shoes and iPad.

PERSONAL WELLNESS/GET FIT
Course: 609
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Sophomore Standing, Fit for Life
Fees: None

The purpose of the class is to provide a well-rounded exercise program to get "in-shape," and feel good physically and mentally. Current trends in fitness and wellness will be practiced and studied, from step aerobics, kick-boxing, hip hop aerobics, Pilates, yoga, and learn to safely use a wide array of fitness equipment such as: stability balls, medicine balls, foam rollers, steps, boxes, bands, yoga blocks, body bars, and dumbbells. Develop skills and knowledge necessary to make improvements in your personal wellness and fitness levels.
REQUIRED: Daily: shorts, t-shirt, and athletic shoes (to remain at school), one-piece swimsuit.

PHYSICAL EDUCATION/HEALTH/DRIVER'S ED

BALANCE
Course: 611
Credit: 1/2
Duration: Semester
Grades: 10-12
Pre-Req: Counselor and Physical Education Staff recommendation
Fees: None

This class is intended to provide an individualized daily plan including exercise, nutrition and stress reduction that can be implemented throughout each day. This class is going to be student driven, exercise choices are going to be decided and implemented depending on the interest and needs of each student. A log will be used to assist with daily record keeping for both the exercise and eating requirements, based on individualized goals. Current trends in fitness and wellness will be practiced and studied. Students will learn to safely use a wide array of fitness equipment such as stability balls, medicine balls, foam rollers, exercise steps and boxes, bands, yoga blocks, body bars and dumbbells, along with motorized fitness equipment such as treadmills, bikes and elliptical machines. Students will develop the skills and knowledge necessary to improve a balanced and healthy lifestyle. The teacher will guide the student through the program and provide the encouragement needed to meet individual goals and continued improvement.
REQUIRED: Daily: shorts, t-shirt, and athletic shoes (to remain at school), occasionally one-piece swimsuit will be needed.

HEALTHY CHOICES
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.

DRIVER EDUCATION
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 after school, on weekends and during the summer.

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

Driver's Education Policy

- Freshmen students who will turn 15 before September 1 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 January 1 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 is a NCAA approved course.

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 is a NCAA approved course.

SCIENCE EXPLORATION R
Course: 111
Credit: 1
Duration: Year
Grades: 9 (10-12 with counselor/teacher approval)
Pre-Req: None
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.

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 function 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 is a NCAA approved course.

ANATOMY & PHYSIOLOGY H
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 is a NCAA approved course.

SCIENCE COURSES

CHEMISTRY R
Course: 116
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Algebra 1 (205/206)
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 and Safety Goggle Fee $ 2.00; if students elect to tie-dye T-shirts in semester 2, an additional $ 8.00 fee is required.**
NOTE: Concurrent enrollment in Algebra 2 (207or 208) or Customized Algebra 2 (204 is recommended
NOTE: This is a NCAA approved course.

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; however, if the instructor decides to tie-dye T-shirts, the instructor will require a fee for the shirts and chemicals to do such activity at the end of the year. Families will pay for such activity, if elected to do so, through Skyward. This activity usually does not take place until May.
NOTE: Concurrent enrollment in Algebra 2 (208) is recommended.
NOTE: This is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

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.
Students in the honors Earth & Space science course should expect a higher level of rigor, cognition, and quality of work than the standard course. They will become actively involved in classroom and laboratory learning experiences. They will also be involved in exploratory, experimental, and open-ended learning experiences with a faster paced, more in-depth study of material.
Honors Earth science students should expect to use and develop the following skills: 1) problem-seeking and problem-solving, 2) independent inquiry-based learning, 3) participation in scholarly and creative processes, 4) reading and understanding scientific material, 5) use of imagination, 6) critical analysis and application, 7) learning to express/defend ideas, 8) becoming a reflective thinker, and 9) becoming an initiator of learning.
To meet, use, and develop the skills required in the Honors Earth & Space science course, students will participate in laboratory exercises, small group activities, web-based investigations, class discussions, and both in class and independent projects and research involving reading and writing requiring a greater depth of understanding of Earth Science concepts that require students to proficiently communicate their ideas.
NOTE: This is a NCAA approved course.

PHYSICS R
Course: 126
Credit: 1
Duration: Year
Grades: 9-12
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 is a NCAA approved course.

PHYSICS H
Course: 127
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Completion of or concurrent enrollment in Algebra I (205/206) with a B or higher grade.
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 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 in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.
NOTE: This is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

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 a fast pace, possess an interest in all science areas and possess the ability to read at the college level.
NOTE: This is a NCAA approved course.

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: $13.00 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. AP Environmental Science is a blended virtual/in person offering consisting of on demand interactive lectures, activities and labs, TEAMS meetings and in-person lab work. College credit can be earned for successful completion of the AP National exam.
REQUIREMENTS: Students must have the time management and organizational skills needed to complete on demand virtual assignments. A lab notebook is required.
NOTE: This is a NCAA approved course.

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 is a NCAA approved course.

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 examine the interactions of the human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken ®, use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Through projects such as determining the identity of a skeleton using both forensic anthropology and DNA analysis, students examine the interactions of human body systems and apply what they know to solve real-world medical cases.
NOTE: This is a NCAA approved course.

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.
Fee: $15

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 is a NCAA approved course.

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.
Fee: $15

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 is a NCAA approved course.

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 (328) 1/2 credit
Genocide and Human Rights (342) 1/2 credit
Psychology (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
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 is a NCAA approved course.

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 is a NCAA approved course.

THE AMERICAN REPUBLIC FOUNDATIONS
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 is a NCAA approved course.

WORLD STUDIES FOUNDATIONS
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 is a NCAA approved course.

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 the 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 is a NCAA approved course.

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 the human experience. The purpose of the Advanced Placement course in Psychology is to introduce students to the systematic and scientific study of behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Through the AP Psychology experience, students have the opportunity to prepare for the AP Psychology exam in the spring.
NOTE: This is a NCAA approved course.
***On a trial basis, AP Psychology will be offered as a yearlong course during the 2023-2024 school year. This may be subject to change in the 2024-2025 and subsequent school years pending success of the trial.**

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 is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

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 is a NCAA approved course.

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. This rigorous and fast-paced college level course is open to students with AP experience as well as newcomers who are ready for the challenge.
NOTE: This is a NCAA approved course.

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 is a NCAA approved course.

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.

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
Course: 668
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: Instructor's Consent
Fee: None

Students explore the different aspects of life including physical, family, social, career, financial, mental and personal. This class will help students adapt to daily life stressors and prepare them for functioning in society as independent citizens. Students will walk away with strategies to support their social and emotional health, in order to manage daily lives.

MATH CONCEPTS
Course: 680
Credit: 1
Duration: Year
Grades: 9-12
Pre-Req: Instructor's Consent
Fee: None

Students will focus on increasing math computation and application skills. Whole group, small group, and individualized methods including a computer-based curriculum will be used. This math class counts as 1 math credit towards graduation.

COLLEGE & CAREER READY
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.

UNDERSTANDING TEXT
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.

COOPERATIVE ART
Course: 691
Credit: 1/2
Duration: Semester
Grades: 9-12
Pre-Req: None
Fee: None

Students will work with experience-based learning. Creating watercolors, tempera paintings, crayon drawings, marker drawings, construction paper sculpture, foam sculptures, wood projects, clay and more. Movement, visualization techniques, are also a part of this class. Emphasis is on personal and group development as the class is varied for the physical, social, and developmental needs of and for the students.
NOTE: Course may be retaken for credit.
REQUIREMENT: Student must have an IEP.

SPECIAL EDUCATION COURSES

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: teamwork, workplace safety, socializing and communication, technology, self-advocacy, personal financial literacy, independent living, functional independence in the community and employability. 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.**

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 includes the following units: teamwork, workplace safety, socializing and communication, technology, self-advocacy, personal financial literacy, independent living, functional independence in the community, and employability. 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 (202/205/206).
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/ 206).
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 is a NCAA approved course.
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 (202/205/206)
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 is a NCAA approved course.

CIVIL ENGINEERING & ARCHITECTURE PS (PLTW-CEA)
Course: 914
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Algebra (202/205/206)
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
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: $10

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 are of shapes drawn in AutoCAD, summarize details through dimensions and annotations added to the drawings, and format the drawings for printing. During the second half of the semester, we will also cover Autodesk Inventor for credit. 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
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

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 ones 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: DC Metal Technology 1 PS (931)
Fee: $40

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 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, Metal Technology 2 (933) or instructor's consent.
Fee: $40

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
Course: 938
Credit: ½
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
Course: 941
Credit: 1/2
Duration: Semester
Grades: 9-10
Pre-Req: 9-10 only
Fee: $40

This semester-long exploratory class introduces learners to shop safety in both a metals and get rid of space...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: 11-12
Pre-Req: Junior Standing
Fee: None

(This course is pending Board Approval)
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.
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

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TECHNOLOGY EDUCATION COURSES

DC ADVANCED MANUFACTURING II PS
Course: 951
Credit: 1/2
Duration: Semester
Grades: 11-12
Pre-Req: Junior Standing
Fee: None

(This course is pending Board Approval)
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.
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
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 cabinetmaking 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 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
Course: 949
Credit: ½
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
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, the learners 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, operation, and proper maintenance procedures of outdoor power equipment by performing maintenance on various outdoor power equipment products of their own.
NOTE: Priority given to 9th and 10th grade students. If class does not fill, 11th and 12th grade students may take the class.

AUTOMOTIVE TECHNOLOGY
Course: 956
Credit: 1
Duration: Year
Grades: 10-12
Pre-Req: Sophomore standing, Outdoor Power Equipment (953), or Consumer Auto Maintenance (959), with instructor's consent
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.
NOTE: Students who plan to take Automotive Technology should NOT take Consumer Auto Maintenance.

DC AUTOMOTIVE TECHNOLOGY CAPSTONE PS
Course: 962
Credit: 2
Grades: 11-12
Pre-Req: Junior standing, Automotive Technology (956) or Consumer Auto Maintenance (959), with instructor's consent.
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
Course: 965
Credit: 2 Duration:
Year Grades: 12
Pre-Req: Senior standing, 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 standing, application form, and instructor's consent
Fee: None

For more information, please see page 14
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! Miam! Miam!
NOTE: This is a NCAA approved course.

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 is a NCAA approved course.

***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 is a NCAA approved course.

***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 is a NCAA approved course.

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 is a NCAA approved course.
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 is a NCAA approved course.

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. Students will gain knowledge and appreciation of a variety of Hispanic cultures. By 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 is a NCAA approved course.

***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 is a NCAA approved course.

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 is a NCAA approved course.

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. Students will improve reading, writing and listening skills along with using critical thinking skills to perform tasks related to the Spanish language and Hispanic culture. Along with these skills, students will gain fluency to help them function in a Spanish speaking country. As part of the reading selections, students will read authentic selections which include short stories and essays. As always, an important part of a foreign language is the culture as such, students compare and contrast cultural activities and attitudes. Students are expected to speak only Spanish in class. The majority of class is conducted in Spanish. Many pre-AP activities are included to introduce students to higher level thought processes in the language.
NOTE: This is a NCAA approved course.

SPANISH IV R
Course: 529
Credit: 1
Duration: Year
Grades: 11-12
Pre-Req: Spanish III (526 or 527)
Fee: None

Students will continue to strengthen communication skills (speaking, reading, writing, listening) while working at a more advanced level. Students will use critical thinking to perform tasks related to the Spanish language and Hispanic culture. Students will gain fluency to help them function in a Spanish speaking country. Students will read a variety of authentic selections from short stories to essays. Students will explore the culture of a variety of Spanish speaking countries. This course is intended to be a slower paced alternative to Spanish IV Honors.
NOTE: Students taking this course will need instructor's permission to take AP Spanish.
NOTE: This is a NCAA approved course.

***+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 challenged, Beauty and Aesthestics, 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 is a NCAA approved course.

***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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