MARSHFIELD

RAMS

Marshfield High School
Program of Studies
2025-2026

Marshfield High School

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2025-2026

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MARSHFIELD HIGH SCHOOL
MISSION STATEMENT

Marshfield High School provides a safe, healthy, and collaborative learning environment that fosters respect and responsibility, empowering all to achieve their maximum potential.

Core Values

- **Respect** self and others
- Hold and reach **high standards**
- Promote **collaboration** in the school community
- Employ comprehensive approach to **continuous learning**
- Embrace **innovative** practices
- Demonstrate **responsibility**
- Ensure a **safe and healthy** environment

Vision of the Graduate

A Marshfield High School graduate will:

- Read actively & critically for a variety of purposes
- Write effectively
- Communicate clearly in speech
- Think critically and use multiple strategies to problem solve
- Collaborate effectively in diverse groupings
- Use multiple strategies to create and innovate
- Serve the community and contribute to society

Academic Information

GRADUATION REQUIREMENTS

Four credits are awarded for the successful completion (grade of D- or better) of each full year course. Successful completion of courses which meet for less than a full year earns credit on a prorated basis.

MARSHFIELD HIGH SCHOOL GRADUATION REQUIREMENTS:

In order to receive a Marshfield High School diploma, students must earn **102 Credits**, including the courses listed below, and pass the state required competency determination assessment through participation in MCAS testing.

SUBJECT	REQUIRED CREDITS	NOTES
ENGLISH	16 Credits	English I, II, III & Senior Selectives
MATHEMATICS	12 Credits	3 Years Required / 4 Years Required For Admission To MA State College
SOCIAL STUDIES	16 Credits	World History, US History I & II, Gov't & Econ or Global Events & Int Relations AP Euro Or AP Government
SCIENCE	12 Credits	3 Lab Sciences Including Biology
WORLD LANGUAGE	8 Credits	2 Years In The Same Language / 3 Years Recommended For Admission to a 4-Year College
FINE & APPLIED TECHNICAL ARTS	12 Credits	3 Classes In: Comp Science, Tech Ed, Family & Consumer Science, Business, Art Music Or Theater
HEALTH	2 Credits	9th Grade Health, 11th Grade Health
PHYSICAL EDUCATION	4 Credits	Must Take And Pass All 4 Years
ELECTIVES	20 Credits	5 Elective Courses In Any Department
	TOTAL CREDITS REQUIRED FOR GRADUATION : 102	

COMPETENCY DETERMINATION - MASSACHUSETTS COMPREHENSIVE ASSESSMENT SYSTEM (MCAS)

Beginning with the MHS Class of 2025, students must earn **102** credits including the courses listed below, and meet the locally determined competency determination to earn a Marshfield High School Diploma.

The "Competency Determination" shall be based on the academic standards and curriculum frameworks for tenth graders in the areas of mathematics, science and technology, history and social science, world

languages, and English, and shall represent a determination that a particular student has demonstrated mastery of a common core of skills, competencies, and knowledge in these areas by satisfactorily completing coursework that has been certified by the student's district as showing mastery of the skills, competencies, and knowledge contained in the state academic standards and curriculum frameworks in the areas measured by the MCAS high school tests administered in 2023, and in any additional areas determined by the board.

Competency Determination will be based on successfully completing coursework equivalent to mastering the concepts and skills in:

- English 10
- Algebra I & Geometry
- One of the following science courses: Biology, Chemistry, or Physics

Students who have previously earned a Competency Determination (CD) through a regular or retest administration of the MCAS (including the November 2024 retest) or through a DESE appeal process, have earned their competency determination.

In the event that a student transfers into Marshfield High School at any point during their high school career, a transcript review will be conducted to ensure that the coursework from the previous school is aligned with MHS coursework for the CD and graduation requirements. The Principal shall be the arbiter for all final decisions.

Please note that the school and district may make additional changes to these requirements as further guidance is provided by the Board of Elementary and Secondary Education (BESE) and The Department of Elementary and Secondary Education (DESE) becomes available.

COURSE CREDIT

All students in grades 9 and 10 must take a minimum of 26 credits per academic year, and students in grades 10 and 11 must take a minimum of 27 credits per year. Physical Education must be taken and passed each year. The number of credits may be comprised of full year (4 credits), semester long (2 credits), and quarter long (1 credit) courses.

The High School Principal will be responsible for interpretation of transfer credits from other schools and will determine graduation requirement fulfillment in any unusual circumstances.

PROMOTION

Eligibility for promotion to the next grade level requires that the student earns a minimum number of credits each year. It is the student's responsibility to select a program with sufficient credits for promotion each academic year and to make adjustments when necessary due to failure or lack of prerequisite grades.

- Promotion to grade 10 requires 24 Credits (20 for probationary status)
- Promotion to grade 11 requires 48 credits (44 for probationary status)
- Promotion to grade 12 requires 72 Credits (68 for probationary status)

ATTENDANCE

Daily attendance is essential to a student's academic progress and achievement and is the responsibility of the student and parent, together with the best efforts of teachers and administrators. A maximum cooperative effort of all will result in a maximum academic experience for the student.

A STUDENT WHO EXCEEDS TEN (10) ABSENCES IN A FULL YEAR COURSE OR FIVE (5) ABSENCES IN A HALF-YEAR COURSE WILL RECEIVE THE EARNED GRADE BUT WILL NOT RECEIVE CREDIT FOR THE COURSE.

Absences that COUNT toward the 5 or 10 consecutive days absence (unexcused):

1. Illness unless verified by a physician's note.
2. Family trips, employer interviews, driver's license tests, medical appointments, bereavement of a non-family member.
3. Tardiness and/or dismissals that result in the loss of more than twenty minutes of class time (three tardies = one unexcused absence).
4. Truancy and class cuts.
5. Out of School suspensions*.

Excused Absences (do NOT count toward ten day maximum):

1. Death in the immediate family.
2. Medical absence with a physician's note.
3. Religious holidays.
4. Court appearances.
5. School sponsored and/or approved activities.
6. Three documented college visits (juniors and seniors only.)

Where necessary, documentation should be received by an administrator no later than five school days following the student's return to school. Questions regarding the determination of an absence relative to the ten day rule will be decided by the principal.

*Ordinarily, absences incurred due to Out-of-School Suspensions are not excused. However, in extenuating circumstances these absences may be appealed to the principal.

IMPORTANT: The 10 day absence policy is not to be interpreted as permission to be absent from school for 10 days. Absence should only be for a serious reason.

Note: For information concerning the Attendance Appeals Board, Final Exemption and Attendance Awards, please refer to the student handbook.

LONG-TERM ABSENCES DUE TO MEDICAL ISSUES

If a student is expected to be out for four days or more for an excused absence, the guidance counselor or nurse should be notified by the parent who will then notify the teachers. Family trips are not sanctioned and are unexcused absences, therefore it is the student's responsibility to have their schoolwork completed upon return from a trip.

With a referral from their counselor, students with long-term excused absences qualify for the MAST Program (Marshfield After-School Tutoring) which is available on Mondays-Thursdays from 2-4 PM in the MHS Library. With the supervision and assistance of high school faculty members, students are provided an opportunity to make up missed assignments, tests, and quizzes so they may utilize in-school and at-home time to focus on their current work.

HOME TUTORING

Home and hospital tutoring services are provided to students who are determined by their physician to be medically unable to attend school and requires a *Physician's Affirmation of Need for Temporary Home or Hospital Education for Medically Necessary Reasons* form be on file at the school. This form may be obtained in the guidance office or downloaded at: https://www.doe.mass.edu/prs/sa-nr/603cmr28.03-3c-form/

COURSE GUIDELINES

Marshfield High School offers a curriculum in which students can choose subjects according to their individual needs, interests and abilities. While some Marshfield High School graduates may choose not to go immediately on to college, the curriculum is designed to support a graduating senior's college and career readiness.

In order to meet the needs of students, courses are offered at various levels of instruction. While courses may share the same core curriculum and texts, the pace, assessment and supplementary materials will differ in response to student skill levels and content mastery. Curriculum is designed to challenge all students regardless of level. Teacher recommendations and/or course prerequisites are the primary factors involved in determining level placement. The school reserves the right to withdraw any course due to insufficient enrollment.

LEVELS OF INSTRUCTION

When selecting courses, students are encouraged to plan a course of studies *for four years* that allows for required courses as well as elective courses that highlight or enhance a particular skill or interest. Students who intend to continue their education after graduation should pay close attention to college admissions requirements when planning a four-year sequence and refer to the Mass. State Eligibility Requirements outlined on page 11. Course level descriptions and expectations are detailed below. Students are advised to seek input and take advantage of the advice from teachers, counselors, administrators and parents/guardians when planning their program of studies.

ADVANCED PLACEMENT: The requirements and curriculum at this level are determined and approved individually by the College Board. All AP courses are designed to challenge students who are academically capable, diligent, highly motivated and have the desire to move beyond the standards of a high school Honors curriculum to those of a college level survey course. These courses involve considerable content depth and accelerated pace, as well as extensive independent work. The College Board estimates that AP courses demand an average of 8-10 hours of homework per week, per AP subject area. For additional information please see "*A Message to Prospective Advanced Placement Students"* at the bottom of this page.

HONORS: Honors courses are recommended for students who demonstrate a high level of academic achievement, motivation and aptitude and seek a competitive academic experience. These courses involve considerable enrichment and acceleration of content material. Instruction assumes that students are able to grasp concepts on initial presentation and emphasize higher order thinking in analysis, synthesis and evaluation. Students are expected to show initiative with respect to organization of time, long-term assignments, and seeking extra help. A considerable amount of outside reading and study is required.

LEVEL 1 (ACCELERATED COLLEGE PREPARATORY): These courses are designed for those students who desire a challenging academic experience. Courses are demanding and the pace is rigorous. Instruction involves enrichment and expectations for above average achievement. Student work requires thoughtful application and analysis of content and in the development and integration of themes and concepts. Outside reading, writing and study precede and follow classroom discussions.

LEVEL 2 (STANDARD COLLEGE PREPARATORY): These courses are designed to develop a thorough understanding of the fundamentals of a subject, the skills needed to comprehend relevant material and the application of concepts. Directed instructional support is provided by the teacher with the goal of building independent study skills. Outside reading, writing and study precede and follow classroom discussions. Level 2 coursework qualifies students for two and four-year post-secondary programs.

A MESSAGE TO PROSPECTIVE ADVANCED PLACEMENT STUDENTS AND FAMILIES

Marshfield High School encourages and supports students to explore courses at the AP level. Advanced Placement, a recognized program of the College Board, provides advanced study to able and highly motivated students at a first year college level. Many colleges and universities award college credit or exempt students from first year courses, based on scores earned on the AP exams given annually. Because enrollment in an AP course is considered evidence of commitment to serious study, students may benefit in the college admissions process.

Students considering taking one or more AP classes should speak with their current teacher, their counselor and their parents, as well as reviewing each course description before making this commitment. Students who enroll in an AP course are expected to remain in the course for the entire year and are required to take the AP exam in each course in May. The exam fee is determined by the College Board and is $95.00 per exam for the 2024-2025 academic year. Students that drop an AP course after November 15th will be required to pay a $40 fee required by the College Board. Financial assistance is available to students who are eligible for free or reduced lunch.

Profile of an AP Student:

- Student is an independent learner who readily understands concepts presented in each lesson and requires limited assistance with outside assignments.
- Student thoroughly completes all assignments in a conscientious manner, demonstrating attention to detail and accuracy.
- Student is able to consistently engage in learning activities and classroom dialogue.
- Student is enthusiastic about the learning process as well as the subject matter.
- Student demonstrate critical thinking and reasoning skills.
- Students are skillful in time management between academics and outside activities.
- Students are able to make connections between abstract concepts and concrete applications.
- Student must welcome the responsibility for managing a demanding workload.

THE COURSE SELECTION PROCESS

Courses outlined in the *Program of Studies* reflect the intent of Marshfield High School to provide educational opportunities that encourage students to maximize their intellectual potential. A great deal of time and effort is devoted to assisting students in the selection of those courses which best fit the student's academic needs and interests. To be effective, the selection process is designed to ensure that students, parents, teachers, and school counselors each contribute to curriculum decision-making by thoughtfully reviewing course options.

Each year, the master schedule is built and faculty are assigned based on the information provided by parents and students during the course selection process. Therefore, requests for changes after this time will only be honored in cases where a scheduling conflict exists, the student's level recommendation has changed, a prerequisite grade has or has not been met, or insufficient enrollment prevents the running of a

course**.** For this reason, courses should be chosen carefully, with thought, planning and input from faculty, guidance and parents/guardians.

Below is an outline of the course selection process that takes place each spring:

1. Following the close of Term 2, teachers in the five core academic areas make level recommendationS for students for next year. These recommendations are based on the student's progress and performance to date and whether the student is meeting, not meeting, or exceeding the grade prerequisite to move on at the current level.
2. Department Heads and teachers in all content areas discuss elective opportunities with students, a new Program of Studies is posted and students select their electives online.
3. The student's counselor meets with each student to review the program holistically, to ensure the student's program is appropriate for their continued academic success and post-secondary goals.
4. Parents should also review the student's overall program selection*. It is the student/parent responsibility to be aware of the prerequisite that must be attained for a desired course or level, and to monitor the student's progress toward meeting that requirement.* Ultimately, a student's placement in a course or level is determined by ***whether or not they have met the prerequisite grade for that course, at the end of the school year.***

LEVEL RECOMMENDATION WAIVER REQUESTS

Teachers carefully consider their level recommendations for each student. It is important to maintain clear communication between student, parent, and teacher, particularly when a teacher's recommendation differs from the level that the student feels is more appropriate. In order to facilitate understanding when this disparity occurs, the student and parent are encouraged to talk with the teacher and, if necessary, the appropriate department head.

Level Change Requests:

In the spring, teachers work closely with students and counselors to make appropriate recommendations for courses and levels for the following year. Counselors meet with students individually to review teacher recommendations and to ensure that student's programs are appropriate for their continued academic success and future goals. Teachers review course recommendations again in June and may change recommendations based upon a student's final average or the student's failure to meet the required prerequisite. As changing courses and course levels can be both disruptive to a student's schedule and academically problematic, **any drops or changes must be made before grades close for quarter one.** Level change requests must be approved by the teacher, the department head, the parents, and the principal, before being implemented. *Proposed changes will only be considered if space/resources allow*.

Once the year has begun, in the event a student is not meeting with success in a course/level for which they did meet the prerequisite or were recommended, despite utilizing the available resources for assistance, a level change may be warranted. In these cases, a "Level Change Request Form" must be signed by the parent, teacher and department head, agreeing that a change in level is in the student's best interest. In these cases, the earned average in the higher level will transfer to the new class, and ***5 points*** will be added to account for the level change.

GRADING

Students are evaluated with a report card four times during the year. Mid-term progress reports are available to parents of students at mid-term via Aspen. Senior transcripts to college reflect only final year grades for years 9-11 and quarter, semester and final grades for senior year.

Each letter grade represents a range of numerical grades as follows:

A+ 96.5 - 100	B+ 86.5 - 89.49	C+ 76.5 - 79.49	D+ 66.5 - 69.49
A 92.5 - 96.49	B 82.5 - 86.49	C 72.5 - 76.49	D 62.5 - 66.49
A- 89.5 - 92.49	B- 79.5 - 82.49	C- 69.5 - 72.49	D- 59.5 - 62.49

F 0.0 - 59.49 (no credit)
W Indicates withdrawal from a course, no grade
INC Indicates the course has not been completed

(*For the purpose of Honor Roll and extracurricular eligibility, an "incomplete" has the same status as an "F" until the work is made up within two weeks of the term end*)

HONOR ROLL

High Honors - All grades of A with one B- allowed
Honors - All grades of B- or better
The above includes all graded subjects with the exception of Physical Education.

EXTRA-CURRICULAR/ATHLETIC ACADEMIC ELIGIBILITY

A student must be passing ***five 4-credit subjects or the equivalent with a grade of C- or better***, ***and Physical Education***, in the marking period immediately preceding his/her participation, to be eligible for extra-curricular or athletic activities. Incompletes are considered failures for eligibility purposes until the work is completed and a grade is given. Fall eligibility is based on a student's final year grades in the previous year.

GRADE POINT AVERAGE

The cumulative academic Grade Point Average (GPA) is one of several measures used by colleges to assess a student's course of studies and relative academic strength.
Marshfield High School subscribes to a two-tier GPA calculation system:

- The "**MHS GPA"** is an overall weighted grade point average that includes *all leveled courses* in **both** core content and elective content areas. This calculation provides students with a GPA that represents *all* of their work at MHS over four years, allowing them to benefit from their strengths and successes *outside* the core academic areas as well as within them.

- The "**Core GPA"** is a weighted grade point average calculated using **only** the five core content courses: English, Math, Science, Social Studies and World Language. If a student is taking multiple courses within a core discipline, each will be counted toward their GPA.Because colleges generally re-calculate students' GPAs using only these core courses, providing students with this calculation gives them a more accurate idea of their true GPA as colleges will view them.

GPA is calculated once a year and reported on the final report card for grades nine and ten. For grades eleven and twelve, an additional GPA calculation is run at mid-year which is used for college purposes and also determines the senior class valedictorian and salutatorian.

Grades earned in enrichment or summer classes may appear on the transcript but are not included in a student's GPA computation.

WEIGHTED SCALE FOR GPA CALCULATION

Below is the chart reflecting the number of points a student earns for a grade in a four credit course at each of the corresponding levels of difficulty:

Letter Grade	AP	Honors	Level 1	Level 2
A	5.0	4.8	4.5	4.0
A-	4.7	4.5	4.2	3.7
B+	4.3	4.1	3.8	3.3
B	4.0	3.8	3.5	3.0
B-	3.7	3.5	3.2	2.7
C+	3.3	3.1	2.8	2.3
C	3.0	2.8	2.5	2.0
C-	2.7	2.5	2.2	1.7
D+	2.3	2.1	1.8	1.3
D	2.0	1.8	1.5	1.0
D-	1.7	1.5	1.2	0.7

CLASS RANK

MHS reports student's rank relative to other MHS seniors in terms of which **decile** their cumulative grade point average falls within the total graduating class. A numerical class rank will only be used to determine the class valedictorian and salutatorian at mid-year of senior year.

NCAA DIVISION I AND II ELIGIBILITY REQUIREMENTS

Specific eligibility requirements must be met by any student athlete planning on participating at the Division I or II level in college. **NCAA Division I and II** requires 16 core courses with a minimum GPA of 2.3 in those courses. Any student anticipating Div I or Div II participation in college **must** register by senior year with the NCAA Clearinghouse at www.ncaaclearinghouse.net. A full description of the Core Course requirements and eligibility criteria can be found on the website.

MASSACHUSETTS STATE COLLEGE AND UNIVERSITY MINIMUM ADMISSIONS STANDARDS

IMPORTANT: Students who may be considering a Mass State College or University after graduation, MUST meet the requirements listed below!!

The Massachusetts Board of Higher Education has defined ***minimum requirements*** for students being considered for admission to any of the four-year state colleges and universities. These standards emphasize a strong academic high school background so that students are college-ready upon matriculation. The eligibility requirements represent minimum standards for admission and meeting these standards does not guarantee admission. The standards do not apply to the State's Community Colleges which maintain open admissions policies.

Core Course requirements include: English- 4 years, Mathematics- 4 years (Algebra 1 & 2, Geometry and 1 other), Science- 3 years (2 lab sciences), Social Science- 2 years (1 U.S. History), Foreign Language- 2 years (in a single language), and Electives- 2 years (from the above subjects, arts, humanities or computer science).

Minimum GPA requirement of 3.0: For those candidates who do not meet the minimum GPA, a sliding scale consisting of GPA and SAT scores may be applied. However, *no applicant with a recalculated GPA below 2.0 may be admitted to a four-year state college or university*. Students should consult with guidance or go to www.mass.edu for additional information.

MARSHFIELD CONTINUING EDUCATION PROGRAMS

Evening and Summer Schools

The Marshfield High School Continuing Education Programs are intended to be an adjunct to the regular school day, not to supplant it. These courses enable students to complete work to earn academic credit and work in small groups with experienced, capable teachers.

Continuing Education Regulations:

1. Academic Credit:
    a. Credit may be earned only if the student has previously completed but not gained credit for that subject during a regular school year.
    b. If a student attends summer school in order to meet prerequisite requirements for a course, the student must pass a departmental qualifying exam prior to being enrolled in the next course sequence.
    c. Level of Credit: Courses taken for make-up are all Level 2 classes and will appear on the student's transcript but will not be computed in the GPA. The grade from the original class will remain.
2. Academic Requirements:
    a. A student must have earned at least a 50% average in a course during the school year in order to be eligible for summer and evening school.
3. Attendance Requirements:
    a. A student must have met the attendance policy requirements established for the regular school year (i.e. class absences may not exceed 10; 5 for half year classes).

The High School Principal may amend these regulations at her discretion.

CAREER AND TECHNICAL EDUCATION DEPARTMENT

Career and Technical Education (CTE) applies problem-solving principles to real-world scenarios. Students who enroll in our courses will learn how to use a variety of tools and skills, to understand the materials of industry, and to think like 21st-century problem solvers. Related science and math principles are stressed throughout all courses while students develop skills using the processes necessary in the construction, manufacturing, and communication fields.

Through our many and varied CTE offerings, we strive to produce high-quality, informed, self-directed, and technically sophisticated students who are proficient in the 21st century skills required in today's global economy.

Our courses meet various students' interests and needs and are designed to enhance critical thinking and problem-solving skills, utilizing the design process as a common thread. Skills mastered in CTE courses will help students succeed in college and in the career world but students interested in pursuing careers in the

fields of business, communications, carpentry, engineering, and technology will find CTE courses to be particularly beneficial.

Marshfield Public Schools offers Career and Technical Education (CTE) programs to students in grades nine through twelve. Students can enroll and explore all Chapter 74-approved and Non-Chapter 74 programs offered by Marshfield Public Schools. Below are the selection criteria to enroll in the Chapter 74 Marketing Program at Marshfield High School. For our full admissions policy, please visit our department webpage at: https://www.mpsd.org/o/mhs/page/technology-education

Selection Criteria:

Enrollment:

Entrance to the marketing vocational program is given to any students that wish to participate during the course selection process. Course selection occurs during the late winter/early spring of each year. Priority in course selection for the first year of the program will be given to ninth and tenth-grade students, followed by grade eleven. Grade twelve students are accepted for the first year of the program on a space-available basis after underclass students have been accommodated. Grade nine students must be enrolled in Geometry or Algebra I when entering the marketing vocational program.

Over enrollment:

Any upperclassmen students who wish to participate that exceed the enrollment limits in the marketing vocational program will be reviewed by a panel. The Head of Guidance, Department Chair of CTE, and the student's Guidance Counselor will meet to review those students who selected the course.

BUSINESS & COMMUNICATIONS TECHNOLOGY

GRADE 9 (& UP)	GRADE 10, 11 & 12	GRADE 11 & 12	GRADE 12
779 Principles of Marketing 778 Principles of Entrepreneurship	777 Advanced Marketing 728 Visual Marketing & Graphic Design 791 Small Business Management 766 Video & TV Production I	737 Business Management & Graphic Production 781 Financial Management 780 Fundamentals of Investing 767 Video & TV Production II	782 College Accounting 792 Strategic Leadership & Management

779 Principles of Marketing - Unleveled

2 Credits/Semester

Grades 9-12

Prerequisite: None

Principles of Marketing is a project-based course that introduces students to fundamental marketing concepts. Topics include identifying target customers, branding and product development, pricing strategies, advertising, internet marketing, promotions, and enhanced presentation skills. These concepts provide the foundational content for students interested in pursuing a business career or those who want to understand basic marketing principles. This course is also a prerequisite for students to take Advanced Marketing. In this course, students will learn the different techniques and marketing skills needed to succeed through hands-on learning.

Course Outline

Pricing	The Promotional Mix	Market Segmentation
Product Management	The Marketing Mix	

778 Principles of Entrepreneurship - Unleveled
2 Credits/Semester
Grades 9-12
Prerequisite: None

Principles of Entrepreneurship is a project-based course that introduces key entrepreneurial concepts and the role of entrepreneurs in business. Topics include how to start a business, manage a business, develop business plans, develop product ideas, and enhance presentation skills. Additionally, students will explore different business ownership forms and entrepreneurship careers. This course is also a prerequisite for students looking to enter the business program at MHS. In this course, students will learn basic business principles, essential skills, and knowledge to pitch ideas and embark on their entrepreneurial journey, laying the groundwork for future success in the business world.

Course Outline

Forms of Ownership	Develop a Business Plan	Franchising
Market Research	Business Management	Marketing a Business

COURSE OFFERINGS GRADES 10, 11 & 12

777 Advanced Marketing - Level 1
4 Credits/Full Year
Grades 10-12
Prerequisite: B- Introduction to Business & Marketing 776 or Principles of Marketing 779

Advanced Marketing builds upon the foundations taught in Introduction to Business & Marketing and is an advanced course for students interested in taking their marketing knowledge to the next level. Advanced Marketing is ideal for students who are interested in starting or managing a business with a strong emphasis on selling, advertising, market research, merchandising, and management. Students will need to follow oral and written instructions, work well in groups, be comfortable presenting to the class, and demonstrate good work ethics to be successful in the course. Major emphasis is placed on business ethics; channel and retail management;, sports & entertainment marketing, and hospitality. This class is for serious business students and participation in the DECA Program is strongly recommended.

Course Outline

Social Media Marketing	Sponsorships & Endorsements
Visual Merchandising	Pricing & Promotion
Distribution & Supply Chain Management	Hospitality
Sports Marketing	Professional Selling
DECA Preparation	

728 Visual Marketing and Graphic Design - Unleveled
4 Credits/Full Year
Grades 10-12
Prerequisite: None

This course is designed to introduce students to the mechanics of digital design through a marketing lens. Students will explore and understand the fundamentals of the Adobe software suite through the creation of advertisements and other marketing media. Students will also have an opportunity to transfer these skills into business practices as they learn the components of a small business at the exploratory level. The principles and modern methods of typography selection, image editing, layout and design, color calibration, and image resolution processing and manipulation will be covered. Further emphasis will focus on the digital design user interface, as well as emerging applied electronic graphic design technologies.

Course Outline

Introduction to digital graphics environments
Safety and best practices in the digital environment
Methods of embroidery
Methods of layout and design
Screen printing and heat transfer processes
Scale and measurement
Color calibration, filter, and resolution manipulation
Small business management soft skills
Digital typography

791 Small Business Management - Level 1
8 Credits
Grades 10-12
Prerequisite: Successful completion of Intro to Business & Marketing 776 or Principles of Marketing 778 or Principles of Entrepreneurship 779

This eight credit course (meets every day) offers students a hands-on experience in the application of retail management and marketing with the school store. This is a project-based class utilizing students' expertise in management, finance, or marketing to run a profitable business providing funding for the school's growing DECA program. Students are required to participate in the DECA program and this course does require time outside of the classroom with inventory selection and working in the store before and/or after school. Students will plan and participate in business meetings, demonstrate management activities, conduct business negotiations, purchase merchandise, relate retail operations to marketing strategies, and many other skills as outlined in the Massachusetts Vocational Technical Frameworks for Marketing Education.

Course Outline

Advanced market research
Retail merchandising
Accounting for profits
Inventory control
Retail store safety and security
Customer service strategies
DECA preparation
Business promotion

766 Video & TV Production I - Unleveled
4 Credits/Full Year
Grades 10-12
Prerequisite: None

Video & TV Production I is designed to introduce the student to the basic concepts of TV and video production. Students will explore the following topics: camera operations, pictorial composition, nonlinear computer editing, and script writing. Other topics will include lighting techniques, audio, special effects, producing, and directing. Students will use the design process to complete assigned projects throughout the year and will be required to serve as crew members for various programs produced outside normal school hours.

Course Outline

Studio camera operation
Studio setup
Control room techniques
Audio techniques
Scripting techniques
Studio lighting
Studio talent
Switcher operation
Nonlinear editing
Crews for TV shoots

737 Business Management in Graphic Production - Level 1
8 Credits/Full Year
Grades 11-12
Prerequisite: Successful completion of Visual Marketing & Graphic Design 728

Business Management in Graphic Production is an eight-credit course designed to equip students with awareness, familiarity, and proficiency in taking on a hands-on role in managing and operating the M.H.S. QUIP (Quality Instant Printing) Center. The course emphasizes business management, the design process, explores major printing methods, and delves into industry standards and technology use of Adobe and other design software. This unique opportunity allows students to produce printed materials for the high school and beyond, offering real-world experience in graphic production and business management within an educational setting.

Course Outline

Re-introduction to design software
Embroidery
Pre-production and production work
Layout and computer design
Records, billing, and bookkeeping
Xerographic copy equipment
Safety practices in business operations environment
Heat transfer process
Binding, finishing, and packaging
Career opportunities

781 Financial Management - Level 1
4 Credits/Full Year
Grades 11-12
Prerequisite: Successful completion of Intro to Business & Marketing 776

Financial Management is designed for the student interested in a deeper look at finances from both a personal and economic perspective. This course gives students a consistent framework for thinking through financial choices in order to improve their financial well-being. Financial Management will cover financial responsibilities, planning for the future, budgets, income and careers, spending and saving, credit, stocks, and investments.

Course Outline

Behavioral finance
Earnings and your career
Opportunity costs and trade-offs
Basics of investing
Credit and credit cards
Budgeting
Saving and checking accounts
Risk and return
Major Expenses: rent, automobiles, housing, food
Debt including student loans

780 Fundamentals of Investing - Level 1
2 Credits/Semester
Grades 11-12
Prerequisite: None

The Fundamentals of Investing course is designed to introduce students to the world of money management. Students will explore financial securities such as stocks, bonds, mutual funds, and more. Students will learn about compounding interest, the "Rule of 72", examine 401(k)'s, real estate, and behavioral finance. A significant emphasis is placed on hands-on learning, with students actively participating in the evaluation of companies, trading stocks, and making investment recommendations for simulated clients. By the end of the course, students will be well-prepared to apply these insights to their financial futures, navigating the investment world with confidence. Fundamentals of Investing is essential for students looking to build a solid foundation in financial management and investment strategies that will affect their financial future.

Course Outline

Investing/investment basics
Stock/stock investing
Mutual funds & ETFs
Alternative investing- options, futures, & shorting
Asset allocation
Financial planning
Intro to the stock market
Bond/Bond investing
Rule of 72
Careers in finance

767 Video & TV Production II - Unleveled
4 Credits/Full Year
Grades 11-12
Prerequisite: Successful completion of Video & TV Production I 766

A continuation of Video & TV Production I, this course involves the production of Before the Bells, our school news television show that is broadcast throughout MHS during flex block. Students are also responsible for creating the senior video, shown at the end of the school year. Skills learned in Telecommunications I will be applied and developed. Students will use the design process to complete large-scale video productions. Eight hours outside the classroom each term is a requirement for students enrolled in this advanced course.

Course Outline

Advanced studio camera operation
Advanced studio preparation
Advanced switcher operation
Advanced graphic & title preparation
Advanced studio lighting
Advanced control room technique
Advanced nonlinear editing
Advanced scripting techniques

GRADE 12 OFFERINGS

782 College Accounting - Level 1
4 Credits/Full Year
Grade 12
Prerequisite: Successful completion of Intro to Business & Marketing 776, or Principles of Marketing 778 or Principles of Entrepreneurship 779

College Accounting is an accelerated course designed for the potential college student who plans on majoring in accounting or finance. The course begins with the basic structure of accounting and the accounting equation. The study progresses from the complete cycle for a sole proprietorship, to the accounting cycle for partners and corporations. In addition, it covers special journals, payroll accounting, depreciation, and accounting control systems. This course uses an online book and an online workbook.

Course Outline

The Accounting Equation
Changes that Affect Owner's Equity
Debit and Credit Parts
Recording in the General Journal
Posting to the General Ledger
Cash Control Systems
Using a Worksheet
Financial Statements
Adjusting and Closing Entries
Special Journals
Payroll Accounting
Taxes & Reports

792 Strategic Leadership & Management - Level 1
4 or 8 Credits
Grade 12
Prerequisite: Successful completion of Small Business Management 791, Business Management in Graphic Production 737, or Video & TV Production II 767

The Strategic Leadership and Management course is designed for the student who has followed the business and communications track at MHS and excelled in the Small Business Management, Business Management in Graphic Production, and Video & TV Production II courses. It provides an emphasis on strategic planning and requires a strong leadership role in the development of young business and communication students. Students will be able to make management decisions that determine long-term planning. They will work on strategy formulation, implementation, and evaluation of their decisions. The goal of this course is to take a broader look to see the big picture and to develop strategies to achieve overall success. Students are expected to participate in the DECA program outside of school as well as working in the school store before or after school. This course follows the Massachusetts Vocational Technical Frameworks for Marketing education.

Course Outline

Strategic planning and goal setting
Mission and vision casting
Positioning strategy and competitive advantage
Strategic implementation
Corporate culture and leadership
Ethics and social responsibility
Evaluation and Control
Current trends and new challenges

CARPENTRY, MARINE FABRICATION & WOOD ENGINEERING

GRADE 9	GRADES 10-12	GRADES 11-12	GRADE 12
718 Exploring Woodworking 719 Exploring Engineering	729 Wood Engineering 756 On-Site Bldg. Construction	739 Marine Fabrication 762 Advanced Wood Engineering	757 Off-Site Bldg. Construction

718 Exploring Woodworking - Unleveled
2 Credits/Semester
Grade 9-10
Prerequisite: None

This course introduces the student to the safe and proper use of tools and machinery common in the woodworking/construction industry. Students will apply basic skills of measurement, layout, cutting, joinery,

and design. Emphasis is placed on learning the correct sequence of operations as students utilize both custom and manufactured designs to build a variety of projects using wood as the primary focus.

719 Exploring Engineering - Unleveled
2 Credits/Semester
Grade 9-10
Prerequisite: None

Students will work individually and in teams to design technologies, explore materials, and gain a better understanding of the engineering design process. Through a series of hands-on projects, students will learn about the different fields of engineering, common applications for simple machines, as well as basic physics and math concepts. This course will also challenge students to keep an engineering journal, complete brief writing assignments, and give presentations to their classmates.

Note: This course is a prerequisite for many of the advanced wood and engineering classes.

729 Wood Engineering - Unleveled
4 Credits/Full Year
Grades 10-12
Prerequisite: None

Wood Engineering will introduce students to general woodworking practices. Students will expand their knowledge and experience through various projects, lessons, and vocabulary. Students will be expected to learn about and safely use hand tools, power tools, and woodworking machinery. The projects are designed to give students as much experience as possible by using many different machines and tools. Upon successful completion of this course, students will have woodworking skills that will be useful in any aspect of the construction industry.

<u>Course Outline</u>
Project planning
Safe & proper use of tools and machines
Gluing up stock
Assembly of parts
Basic embellishment
Hardware installation
Turning
Stock selection
Stock preparation
Scraping, planing and sanding
Woodworking joints
Finish sanding
Choosing and applying finishes

756 On-site Building Construction - Unleveled
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Exploring Woodworking 718 or Exploring Engineering 719 or Wood Engineering 729

This course is designed to introduce students to the safe and proper methods and tools involved in the construction trades. Students will design and build basic structures while exploring the parts that make them up. Students will also complete small outdoor furniture projects such as sheds, benches, picnic tables, Adirondack chairs, and many other carpentry projects. In addition, the On-Site Construction course creates opportunities for students to build projects for members of the community.

Course Outline

Overview of power tool and operation
Proper use of machinery
Proper fastener selection
Conventional framing practices
Work site safety
Hand tool operation
Building codes review
Discussion of lumber

762 Advanced Wood Engineering - **Level 1**
4 Credits/Full Year
Grades 11-12
Prerequisite: B- in Wood Engineering 729

This course is designed to give students a second year to deepen and broaden their woodworking, manufacturing, and creative skills. Students will continue to learn how to be safe in a work area, learn how to use and manipulate hand tools and machinery, and further learn methods of woodworking. Additionally, students will have a broader understanding of the construction processes as well as more in-depth problem-solving skills.

Course Outline

Project planning
Safe & proper use of tools and machines
Sanding, scraping & planning
Turning
Joints choosing & applying finish
Properties of wood
Sketch modeling
Cutting to finish dimensions
Joining
Inlay
Carving
Furniture Design
Gluing up stock
Staining woodworking

739 Marine Fabrication - Unleveled
4 Credits
Grades 11-12
Prerequisite: Successful completion of Successful completion of Exploring Woodworking 718, or Exploring Engineering 719, or Wood Engineering 729

This course teaches the skill and art of boat building. Students will learn how to make real, life-sized, high-quality seacrafts: canoes, kayaks, skiffs, dories, sailboats, motor boats, and paddle boards. The boats are constructed using the traditional riveted plank on frame, glue-lapped plywood, stitch and glue ultra-light building techniques. Students will learn to use hand tools, power tools, and machinery while learning valuable, transferable life skills. No experience is necessary. In May, students will test their boats in the waters of Green Harbor.

Course Outline

Reading a plan
Hand tools
Boat joinery
Building molds
Acquiring a fine boat finish
Wooden boat building methods
Power tool operation
Boat fastening methods
Use & care for fiberglass products
Caring for a fine boat
Basic building and shop safety
Use and care of epoxy products
Technique for fairing a boat
Proper sanding techniques

757 Off-Site Building Construction - Unleveled
8 Credits
Grade 12
Prerequisite: Successful completion of Exploring Woodworking 718, Wood Engineering 729 or On-Site Bldg. Const 756

Due to the fact that this course takes students off-site for independently contracted building projects, enrollment requires the recommendation of the instructor and department head (limited to 7 students).

The Building Construction Technology program is designed to prepare students for entrance into the building trades upon graduating from high school, or for further training in construction-related fields at a technical college. It provides students with "hands-on" training in a wide range of actual construction experiences, including framing, siding, and roofing of houses, porches, and additions in the Marshfield community. Students will work with their instructor on projects for individuals or groups within the town. Instruction in the use and maintenance of necessary tools and equipment is also part of the course. This course meets 2 blocks, every other day.

Course Outline

Overview of power tool and operation
Proper nail selection
Conventional framing practices
Window installation
Flashing & roof insulation
Sheetrock installation
Work site safety
Hand tool operation
Discussion of lumber
Exterior trim
Shingling techniques
Proper use of staging
Building codes review
Sheathing practices
718321

ENGINEERING & DESIGN

GRADE 9	GRADE 10	GRADES 11 & 12
718 Exploring Woodworking 719 Exploring Engineering	718 Exploring Woodworking 719 Exploring Engineering	718 Exploring Woodworking 719 Exploring Engineering 727 Engineering Design & Innovation

718 Exploring Woodworking - Unleveled
4 Credits/Full Year
Grade 9-12
Prerequisite: None

This course introduces the student to the safe and proper use of tools and machinery common in the woodworking/construction industry. Students will apply basic skills of measurement, layout, cutting, joinery, and design. Emphasis is placed on learning the correct sequence of operations as students utilize both custom and manufactured designs to build a variety of projects using wood as the primary focus.

719 Exploring Engineering - Unleveled
4 Credits/Full Year
Grade 9-12
Prerequisite: None

Students will work individually and in teams to design technologies, explore materials, and gain a better understanding of the engineering design process. Through a series of hands-on projects, students will learn about the different fields of engineering, common applications for simple machines, as well as basic physics

and math concepts. This course will also challenge students to keep an engineering journal, complete brief writing assignments, and give presentations to their classmates.

Note: Courses 718 & 719 prepare students for more advanced technology education courses and are excellent for developing problem-solving, collaboration, and maker skills.

727 Engineering Design & Innovation - Level 1
4 Credits
Grades 10-12
Prerequisite: Successful completion of Exploring Engineering 719 or 2D & 3D Modeling 748

This course is appropriate for students who are interested in design and engineering. The course is aimed at exposing students to the design process, engineering standards, research and analysis, and teamwork. Engineering design gives students the opportunity to develop their skills and understanding of course concepts through activity-based, project-based, and problem-based learning used in combination with a team approach. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course.

COMPREHENSIVE HEALTH DEPARTMENT

CULINARY ARTS OFFERINGS:

960 Principles of Nutrition and Culinary Arts - Unleveled
4 Credits/Full Year
Grades 9-12
Prerequisite: None

This course will introduce students to the science of nutrition and a variety of cooking methods. Students will have the opportunity for practical application of their knowledge through food preparation labs, evaluating prepared foods, and developing plans for maintaining their optimal nutritional health

Course Outline
Safety & Sanitation Measurements: math in kitchen

Tools for a healthy diet
Basic nutrients for health-functions and sources
Variety of cooking techniques
Functions of ingredients
Deciphering nutrition labels

961 Bakery & Café Management - Unleveled
4 Credits/Full Year
Grades 10-12
Prerequisite: B or above in Principles of Nutrition and Culinary Arts 960 or Instructor approval

This course is designed for students with experience in culinary arts that can work independently. Students will create menu projects and supervise the Café.

Course Outline
Essentials of Professional Baking
Breakfast Cookery
Cookies, Cupcakes & Cakes
Presentation & Packaging of Baked Goods
Using Standardized Recipes
Pies, Pastry & Quick breads
Cake Decorating Techniques
Savory Cooking Techniques

962 Global Cuisine - Unleveled
2 Credits/Semester
Grades 10-12
Prerequisite: Successful completion of Principles of Nutrition and Culinary Arts 960

In Global Cuisine, students will explore traditional foods and flavors from around the world. Students will practice using different cooking methods and ingredients from a variety of cultures. Emphasis will be on local, regional and national cuisines.

Course Outline
History of various cultures/countries
How weather & climate of a region impacts food production
Understand how geography influences a region's cuisine
Use cooking techniques and ingredients to make traditional cuisines

963 Teen Cuisine - Unleveled
2 Credits/Semester
Grades 11-12
Prerequisite: None

This semester course is for juniors and seniors that have not taken Principles of Nutrition 960 but want to get ready for real-life cooking beyond High School. Whether you're preparing meals in a dorm, apartment, or at home, this course provides practical knowledge and hands-on experience in creating simple, cost-effective dishes. Topics include basic skills such as: food safety, proper knife skills, recipe reading, proper equipment use, microwave cooking, preparing meals on a budget and an introduction to baking techniques. Students will spend the majority of time practicing skills. Perfect for those who want to build confidence in the kitchen and embrace cooking as a vital life skill: this course is open to students who have not previously taken Nutrition or Bakery.

Course Outline
Food Safety & Basics: boiling water, cracking an egg, storing food & thawing food

Mise en place (preparing your ingredients)
Reading/following recipes
Basic skills (knives, equipment, dishes, pots, pans, measuring, loading dishwasher)
Maximizing the microwave for simple cooking
Meal planning on a budget
Simple/few ingredient meals (breakfast, lunch & dinner)
Introduction to baking basics: muffins, cookies, simple breads & desserts

HEALTH OFFERINGS:

973 Grade 9 Health - Unleveled
1 Credit/Semester
Prerequisite: None

Students will receive instruction and practice responsible, informed decision-making involving substance abuse, relationships, and disease prevention.

This is a required course for graduation.

Course Outline
Self-Care & goal setting
Decision making: social media & drug/alcohol use
healthy relationships: boundaries & consent
Sexual harassment: laws & assertiveness
Mental Health: positive coping skills
Reproductive health: Reproductive system, abstinence & sexually transmitted infections, assertiveness skills

974 Grade 11 Health - Unleveled
1 Credit/Quarter
Prerequisite: None

Students will receive instruction and practice responsible, informed decision-making. Students will complete a genogram to determine the role of heredity and lifestyle choices.

This is a required course for graduation.

Course Outline
CPR and AED certification training
Preventable Diseases & Family genogram
Self-Care
First Aid
Nutrition for disease prevention

PHYSICAL EDUCATION OFFERINGS:
Physical Education is a four-year graduation requirement

983 Grade 9 Physical Education - Unleveled
1 Credit
Prerequisite: None

Students will practice skills necessary for a lifetime of activity. Activities in this course will include a focus on five components of fitness. Activities such as aerobic exercise, team sports, recreational sports, individual

sports, dual sports and modified sports will be used to create an interest in developing and maintaining a healthy lifestyle.

Course Outline

Racquet Sports	Fitness & Yoga	Net Games
Target Games & Activities	Team Sports	
Cooperative Games	Individual Sports	

STUDENTS IN GRADES 10, 11 AND 12 PHYSICAL EDUCATION OFFERINGS:

984 Competitive Games - Unleveled
1 Credit/Semester
Grades 10-12
Prerequisite: None

This course focuses on the mastery of skills and strategies related to large team sports and activities.
Course Outline

Flag Football	Soccer	Basketball	Volleyball
NitroBall	BroomBall	Ultimate Frisbee	Handball

985 Recreational Sports and Activities - Unleveled
1 Credit/Semester
Grades 10-12
Prerequisite: None

This course focuses on the mastery skills and strategies related to individual/small group sports and activities.
Course Outline

Racquet Sports	Fitness & Yoga	Net Games
Target Games & Activities	Team Sports	
Cooperative Games	Individual Sports	

986 Yoga - Unleveled
1 Credit/Semester
Grades 10-12
Prerequisite: None

This course is designed to introduce students safely to the basic postures, breathing techniques and relaxation methods of yoga. Students will experience the benefits of muscular strength, endurance, flexibility, balance, relaxation and stress reduction. Students will gain a greater understanding of the relationship between mind and body.
Course Outline

Badminton	Pickleball	Tennis	Golf
Archery	Nitroball	Disc Games	

987 Personal Fitness - Unleveled
1 Credit/Semester

Grades 10-12
Prerequisite: None

This course is designed for students who have an interest in creating and participating in an individualized fitness workout. Classes will meet in the fitness center and students will design a fitness routine that best meets their personal training needs.

Course Outline
Create and assess personal fitness plan
Demonstrate use of all equipment
Demonstrate proper posture and position

COMPUTER SCIENCE DEPARTMENT

No prior knowledge is needed to unlock your potential to learn more about how computer science relates to the world everyday from smartphones and apps, to multimedia and careers. There are so many courses to explore and experience, that you will soon realize a whole new world of opportunity awaits. We offer multiple certification courses that enable students to earn a certificate that may be used to qualify for a job and possibly for college credit. Our AP courses also offer the benefit of the possibility of waiving an introductory computer course in college. The opportunities are plenty and we would love for you to take a journey through computer science with your peers and make some real world connections through our courses.

LEVELS	AP	HONORS	LEVEL 1	UNLEVELED
GRADE 9	604 AP Computer Science Principles		601 Microsoft Office Certification 1 601A Microsoft Word Certification 601B Microsoft Excel Certification 601C Microsoft PowerPoint Certification 632 IT Certification & Tech Team	600 App & Web Development 605 Cybersecurity 611 Game Design & Coding 617 Tech Trends: Past & Future 618 Video Game Design 619 Exploring Artificial Intelligence 636 Digital Media Production I
GRADE 10	604 AP Computer Science Principles	602 Microsoft Office Certification 2 Honors 638 Adv. Topics in Comp Sci Honors (Full Year) 638S Adv. Topics in Comp Sci Honors (Semester)	601 Microsoft Office Certification 1 601A Microsoft Word Certification 601B Microsoft Excel Certification 601C Microsoft PowerPoint Certification 622 Object Oriented Programming 632 IT Certification & Tech Team	600 App & Web Development 605 Cybersecurity 611 Game Design & Coding 617 Tech Trends: Past & Future 618 Video Game Design 619 Exploring Artificial Intelligence 636 Digital Media Production I 637 Digital Media Production II
GRADE 11	604 AP Computer Science Principles	602 Microsoft Office Certification 2 Honors	601 Microsoft Office Certification 1 601A Microsoft Word Certification	600 App & Web Development 605 Cybersecurity 611 Game Design & Coding

	635 AP Computer Science A	603 Microsoft Office Certification 3 Honors 638 Adv. Topics in Comp Sci Honors (Full Year) 638S Adv. Topics in Comp Sci Honors (Semester)	601B Microsoft Excel Certification 601C Microsoft PowerPoint Certification 622 Object Oriented Programming 632 IT Certification & Tech Team	617 Tech Trends: Past & Future 618 Video Game Design 619 Exploring Artificial Intelligence 636 Digital Media Production I 637 Digital Media Production II
GRADE 12	604 AP Computer Science Principles 635 AP Computer Science A	602 Microsoft Office Certification 2 Honors 603 Microsoft Office Certification 3 Honors 638 Adv. Topics in Comp Sci Honors (Full Year) 638S Adv. Topics in Comp Sci Honors (Semester)	601 Microsoft Office Certification 1 601A Microsoft Word Certification 601B Microsoft Excel Certification 601C Microsoft PowerPoint Certification 622 Object Oriented Programming 632 IT Certification & Tech Team	600 App & Web Development 605 Cybersecurity 611 Game Design & Coding 617 Tech Trends: Past & Future 618 Video Game Design 619 Exploring Artificial Intelligence 636 Digital Media Production I 637 Digital Media Production II

600 App and Web Development - Unleveled
2 Credits / Semester
Grades 9-12
Prerequisite: None

Ever wondered how websites and apps are created? This course will teach you how to design and develop them from scratch! Learn the languages of the web—HTML, CSS, and JavaScript—and discover how to create responsive websites that look amazing on any device. Then dive into mobile development, where you'll build apps that work seamlessly on smartphones and tablets.

Through hands-on projects, you'll bring your ideas to life while exploring user interface design, functionality, and problem-solving. By the end of the course, you'll have the skills to create your own websites and apps, and the confidence to share your creations with the world.

No experience? No problem! Whether you're a future tech entrepreneur or just curious about coding, this course is your gateway to shaping the digital future. Let's build something awesome together!
Source: OpenAI's ChatGPT, December 2024 version, https://chatgpt.com/

601 Microsoft Office Certification 1 - Level 1
4 Credits/Full Year
Grades 9-12
Prerequisite: None

Microsoft Office is the software that students will benefit from learning for any career field that they choose including business, science, math, social sciences and many others. With a focus on learning Word, Excel, and PowerPoint, students will be empowered with the ability to use these applications as they relate to their school projects, daily life and their future. Students will also explore topics such as Social Media, Music and Entertainment Streaming, Digital Fitness, Google Apps, Academic and Technology Integration, Climate Change, and other relevant topics that impact their world. Students will be prepared to take the MS Office

2019 Associate Exams in Word and PowerPoint earning them Microsoft Certifications, a worldwide recognized endorsement of mastery skills. All certification exams are paid for by the Computer Science Department.

601A Microsoft Word Certification - Level 1
2 Credits / Semester
Grades 9-12
Prerequisite: None

Want to create polished, professional documents that stand out? In this course, you'll become a Microsoft Word specialist, learning how to craft everything from essays and reports to resumes. Master essential tools like formatting, templates, tables, and mail merges, and discover tips and tricks to boost your productivity and creativity.

You'll also prepare for the official Microsoft Word Associate Certification exam, earning a credential that demonstrates your skills to teachers, colleges, and future employers. Through hands-on projects, you'll build confidence in creating documents that look sharp and communicate effectively.

No experience? No problem! This course is perfect for students who want to level up their tech skills, get organized, and make their work stand out. Join us to become a Word wizard and earn a certification that sets you apart! *Source: OpenAI's ChatGPT, December 2024 version, https://chatgpt.com/*

601B Microsoft Excel Certification - Level 1
2 Credits / Semester
Grades 9-12
Prerequisite: None

Ready to become a spreadsheet superstar? In this course, you'll master Microsoft Excel, one of the most powerful tools for managing and analyzing data. Learn how to organize information, create professional charts and graphs, use formulas to solve problems, and even automate tasks with functions like pivot tables and macros.

Through interactive lessons and practical projects, you'll gain skills that are essential for school, college, and the workplace. Plus, you'll prepare to earn the official Microsoft Excel Associate Certification—a credential that stands out on college applications and resumes.

No prior experience? No worries! This course is perfect for anyone eager to boost their productivity, solve real-world problems, and stand out as an Excel expert. Join us and take the first step toward mastering data like a pro! *Source: OpenAI's ChatGPT, December 2024 version, https://chatgpt.com/*

601C Microsoft PowerPoint Certification - Level 1
2 Credits / Semester
Grades 9-12
Prerequisite: None

Want to impress your audience, ace your presentations, and earn a professional certification? This course is your ticket to becoming a PowerPoint pro! Learn how to design visually stunning slides, incorporate dynamic animations, and deliver content that stands out. From mastering layouts and templates to creating charts, infographics, and multimedia presentations, you'll develop skills that are essential for success in school, college, and beyond.

Through hands-on practice and guided instruction, you'll prepare for the official Microsoft PowerPoint Associate Certification exam, a credential that showcases your expertise to teachers, colleges, and future employers.

No prior experience? No problem! Join this course to boost your creativity, build confidence, and earn a certification that puts you ahead of the game. Let's make your ideas shine! *Source: OpenAI's ChatGPT, December 2024 version, https://chatgpt.com/*

602 Microsoft Office Certification 2 Honors
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Gen Z 1 612 or Microsoft Office Certification 1 601

Explore the conditions and issues surrounding information sharing through technology and examine the power of influence social media applications have. Students will take a deeper look at the elements that dictate what information is shared, the validity of shared information, government regulations, and the innovations of the technology stakeholders and their responsibilities to society. Using Excel, and an advanced level of Word students will research, collect and analyze data while also using Publisher and PowerPoint to display and present findings. Students will also prepare to take the MSOffice 2019 Expert Exam in Word and the Associate Exam in Excel earning them Microsoft Certifications, a worldwide recognized endorsement of mastery skills. All certification exams are paid for by the Computer Science Department.

603 Microsoft Office Certification 3 Honors
4 Credits/Full Year
Grades 11-12
Prerequisites: Successful completion of Gen Z 2 621 or Microsoft Office Certification 2 602

Learn what social algorithms are and how social networks prioritize which content and type of information a user sees in their feed. Examine how algorithms influence decision making, personal beliefs, purchases and social interactions. Using the advanced levels of Excel and Access 2019 students will create a database to organize the data collected while also creating forms and reports based on the information gathered on algorithms and how it is used with social networks (Facebook, Instagram, Twitter, etc). Students will also prepare to take the MSOffice 2019 Expert Exams in Excel and Access 2019 earning them Microsoft Certifications, a worldwide recognized endorsement of mastery skills. All certification exams are paid for by the Computer Science Department.

604 AP Computer Science Principles
4 Credits/Full Year
Grades 9-12
Prerequisite: None

Students don't need an advanced understanding of coding; AP Computer Science Principles is an introductory-level course meant for all students. AP CSP can help students understand how computing and technology shape the world around them - from smartphones and video games to music, medicine, and much more. In AP CSP, students will work on their own and as part of a team to creatively address real-world issues using the tools and processes that artists, writers, computer scientists, and engineers use to bring ideas to life. A school year studying computer science will help students learn and grow by applying

their ideas to create real solutions. The course will follow the College Board's course content and will prepare students for the Advanced Placement Computer Science Principles exam.

605 Cybersecurity - Unleveled
2 Credits / Semester
Grades 9-12
Prerequisite: None

Step into the exciting and high-stakes world of cybersecurity, where you'll learn how to protect sensitive information, defend systems from hackers, and outsmart cybercriminals. Discover how the Internet really works and explore the tools and techniques used by ethical hackers to secure networks, websites, and personal data.

From creating uncrackable passwords to unraveling cyber mysteries, you'll gain hands-on experience with the latest technologies. Along the way, you'll explore real-world cases of cyberattacks, learn about digital forensics, and understand the importance of safeguarding privacy in our connected world. Whether you dream of a career in tech or just want to be the person who knows what to do when things go wrong online, this course is your launchpad.

No prior experience? No problem! Come as you are and leave with skills that will make you the go-to expert in a world that needs defenders like you. Join us in Cybersecurity—because the future depends on people who can keep it safe. *Source: OpenAI's ChatGPT, December 2024 version, https://chatgpt.com/*

611 Game Design & Coding - Unleveled
4 Credits/Full Year
Grades 9-12
Prerequisite: None

Using Minecraft, Roblox, GameMaker and Unity, students will design and build games of a variety of genres. Students will create games individually or as a team and challenge their peers to a game jam! Students will experience the difference between drag-and-drop coding versus text-based while learning programming concepts and techniques. A variety of robots and Arduino boards will be used to understand the basics of how circuits work. This course is recommended for students who are open-minded, enjoy the challenge of problem solving and want to build on their computer science skills. The successful completion of this course leads to Object Oriented Programming which takes programming to the next level.

617 Tech Trends: Past & Future - Unleveled
2 Credits/Semester
Grades 9-12
Prerequisite: None

Ever wondered how inventions like the telephone or the internet revolutionized the world? Or what the next big breakthrough might be? This course takes you on a journey through the history of groundbreaking technologies and into the future of innovation. From the Industrial Revolution to the rise of artificial intelligence, you'll explore how past trends have shaped modern life and what today's advancements mean for tomorrow.

You'll investigate topics like robotics, renewable energy, space exploration, and wearable tech while connecting them to the big ideas that changed history. Through hands-on projects and debates, you'll learn

how to analyze current trends, predict future impacts, and consider the ethical challenges of technological progress.

This course is perfect for curious minds ready to explore the past, dream about the future, and understand how technology transforms our world. No experience is needed—just a passion for discovery and innovation! *Source: OpenAI's ChatGPT, December 2024 version, https://chatgpt.com/*

618 Video Game Design - Unleveled
2 Credits / Semester
Grades 9-12
Prerequisite: None

Do you dream of designing the next big video game? This course is your chance to turn those dreams into reality! Learn the fundamentals of game design, from creating characters and building immersive worlds to programming mechanics and designing levels. Explore the art of storytelling, gameplay balance, and user experience to craft games that keep players hooked.

Using industry-standard tools, you'll work on hands-on projects to design and build your own playable games. Along the way, you'll discover how game developers solve problems, work in teams, and bring creative ideas to life.

Whether you're a gamer with big ideas, an aspiring programmer, or a future designer, this course will give you the skills and confidence to start your journey in the gaming industry. No experience is required—just bring your imagination and passion for games! *Source: OpenAI's ChatGPT, December 2024 version, https://chatgpt.com/*

619 Exploring Artificial Intelligence - Unleveled
2 Credits / Semester
Grades 9-12
Prerequisite: None

What if you could teach a machine to think, create, and solve problems? In this course, you'll dive into the fascinating world of Artificial Intelligence (AI), where science meets imagination. Discover how AI powers everyday tools like voice assistants, facial recognition, and self-driving cars—and learn how it's shaping the future in fields like healthcare, gaming, and environmental conservation.

You'll explore the fundamentals of AI, including machine learning, natural language processing, and robotics, through hands-on projects and real-world examples. Along the way, you'll tackle big questions about ethics, bias, and the impact of AI on society, preparing you to think critically about its role in our lives.

Whether you dream of creating the next big innovation or simply want to understand the technology behind the buzz, this course is your gateway to the future. No prior experience is needed—just a curiosity to learn and a passion for problem-solving! *Source: OpenAI's ChatGPT, December 2024 version, https://chatgpt.com/*

622 Object Oriented Programming - Level 1
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Game Design 611 or AP Computer Science Principles 604

This course is geared for students who were successful in Game Design & Coding or AP Computer Science Principles. Students will write, debug and execute programs that build on fundamental coding concepts and will build on the basics of object oriented programming. Some projects include developing web pages, creating mobile apps and building games using JavaScript, HTML, CSS, Python and Java. The successful completion of this course leads to AP Computer Science which uses the Java programming language.

632 IT Certification & Tech Team - Level 1
4 Credits/Full Year
Grades 9-12
Prerequisite: None

Become the person that everyone goes to for computer help! Be part of the MHS Tech Team and repair technology around the building while you are training. Participate in hands-on activities such as building computers, troubleshooting hardware, software and networking issues. Explore current topics including cyber security, computer networks, hardware and other key computer concepts. This course follows the CompTIA Tech+ Certification Exam objectives and upon completion of the course, students will take the certification exam that is paid for by the Computer Science Department (value of $138).

635 AP Computer Science A (Java)
4 Credits/Full Year
Grades 11-12
Prerequisite: Minimum of a B in Object Oriented Programming 622

This course is designed for students who want to continue an in depth study of programming as well as prepare them for the Advanced Placement Computer Science "A" exam in Java. This course is intended as a third programming course for the highly motivated students who have strong math ability and have completed *Game Design & Coding or AP Computer Science Principles* as well as *Object Oriented Programming*. The course will provide an expansion on the theories and techniques of object-oriented programming and the development of graphical user interfaces, applets and applications using the Java API. There will be a major emphasis on the notions of objects, classes and methods, as well as class interaction, encapsulation and polymorphism. Also, the three required AP Java Labs will be covered: Magpie (Chatbot), Elevens
(Card Game) and Picture (Editing).

636 Digital Media Production I - Unleveled
4 Credits/Full Year
Grades 9-12
Prerequisites: None

Are you ready to bring your creative ideas to life? In this course, you'll dive into the exciting world of digital media production, where you'll learn to design, film, edit, and produce content that grabs attention and tells a story. From creating eye-catching videos and animations to crafting professional websites with custom graphics, this course equips you with the skills to thrive in today's digital age.

Using industry-standard tools and software, you'll work on hands-on projects that let you experiment with video editing, sound design, special effects, and more. Along the way, you'll discover how to share your work, build your personal brand, and create content that inspires and informs your audience.

Whether you dream of becoming a filmmaker, influencer, designer, or just want to master the art of digital storytelling, this course is your backstage pass to creative success. No experience needed—just bring your imagination and a desire to make your ideas shine! *Source: OpenAI's ChatGPT, December 2024 version, https://chatgpt.com/*

637 Digital Media Production II - Level 1
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Digital Media I 636

This course offers students the opportunity to develop more advanced skills in the multiple facets of digital media that were learned in Digital Media Production I. The course is structured as a project-based learning environment where students can work on long term projects individually or as part of a team. The ability to work independently while maintaining focus and continuous effort are essential to succeeding in this course.

638 Advanced Topics in Computer Science Honors
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of in AP Comp Sci A 635 or B+ in any two Comp Sci courses

This course has been created for students who are serious about advancing their knowledge in the field of computer science. Students have the opportunity to customize their education by studying a topic of their own choice. Each student will be required to submit a proposal to the teacher that will include the topic(s) of study, rationale for the topic(s), and a goal statement(s). Students will be responsible for their research by creating goals, documentation, and a summative term project that will be presented at the end of each term. The teacher will review each student's research and will guide them throughout the year via discussions and reflections on notes and assessments.

638S Advanced Topics in Computer Science Honors
2 Credits / Semester
Grades 10-12
Prerequisite: Successful completion of AP Comp Science A 635 or B+ in any two Comp Sci courses

This semester course has been created for students who are serious about advancing their knowledge in the field of computer science. Students have the opportunity to customize their education by studying a topic of their own choice. Each student will be required to submit a proposal to the teacher that will include the topic(s) of study, rationale for the topic(s), and a goal statement(s). Students will be responsible for their research by creating goals, documentation, and a summative term project that will be presented at the end of each term. The teacher will review each student's research and will guide them throughout the year via discussions and reflections on notes and assessments.

ENGLISH DEPARTMENT

The Marshfield High School English Department offers a sequential program of courses designed to prepare students for study at the college level. The English Department endeavors to fulfill the mission and student learning expectations of Marshfield High School by fostering growth in each student. To achieve this goal, the English Department offers courses that are designed to continually develop and refine a student's reading, writing, listening, speaking, and thinking. Along with these intellectual and communication skills, our courses are intended to broaden a student's perspective and enhance independent thought as he or she develops the humanistic values traditionally associated with the study of literature. Students interested in furthering their experience in English Language Arts beyond what is required are encouraged to choose from our Theater Arts electives.

Summer reading assignments are required for AP, Honors, and College Prep courses. These assignments are posted on our school website as well as individually given to students at the end of the school year.

GRADE	AP	HONORS	ACCELERATED COLLEGE PREP LEVEL 1	COLLEGE PREP LEVEL 2
GRADE 9		110 English I Honors	111 English I	112 English I 113 English Reading Composition
GRADE 10		120 English II Honors	121 English II	122 English II
GRADE 11	135 AP Language and Composition		131 English III	132 English III
GRADE 12	145 AP Literature & Composition		**English IV Level 1 Options:**	**English IV Level 2 Options:**
			148 English IV: Mystery, Suspense &	149 English IV: Mystery & Suspense
			152 English IV: The Meaning of Life	153 English IV: The Meaning of Life
			154 English IV: Film Criticism through a Literary Lens	155 English IV: Film Criticism through a Literary Lens
			161 English IV: Utopia and Dystopia	162 English IV: Utopia and Dystopia
Electives: 164 Public Speaking, 165 Creative Writing, 156 Intro to Theater, 157 Theater I, 158 Theater II, and 160 Advanced Theater Projects				

WRITING LAB:

Writing Lab underscores the English Department's commitment to writing. It is here where students can receive one-on-one writing instruction with an English teacher. The Writing Conference is open all four blocks, every day and is staffed by two English teachers every block. English teachers are available to assist

students with any problems they may be experiencing in their English classes, such as difficulty with their writing or classwork, adjusting to a new level, with MCAS or SAT preparation, or with any other area in the English curriculum. In the Writing Lab, teachers work collaboratively with students to edit and revise their work using both Google Docs and more traditional methods of revision.

GRADE 9 COURSE OFFERINGS

English I

Course Outline

Summer reading evaluations
Introduction to the "Hero's Journey" archetype
Introduction to the analysis of short fiction
Introduction to the coming of age novel
Introduction to Shakespearean drama
Introduction to research writing
Guided and independent analysis of a novel
Frequent, independent reading and writing

110 English I - Honors
4 Credits/Full Year
Prerequisite: A in Grade 8 ELA and teacher recommendation

This program is for the student who is academically talented in language arts. The level zero English student is inherently drawn to the study of literature, is a voracious reader who loves to write both in and out of class, strives for accuracy and fluency in all modes of discourse, and embraces the rigorous demands of both the discipline and the course. This program focuses on developing basic skills for a mature interpretation of literature, critical thinking, and analytical expository discourse. The ultimate goal is to make the student an independent learner. Students who find success in the 110 course are academically driven, are capable independent readers, are curious, are critical thinkers, and demonstrate a strong work ethic.

111 English I - Level 1
4 Credits/Full Year
Prerequisite: B in Grade 8 ELA or teacher recommendation

In this college preparatory course, students examine coming of age literature, focusing on the critical thinking skills required in writing longer compositions and in analyzing a variety of literary genres. The course also includes instruction on vocabulary, English grammar, oral presentation, and research.

112 English I - Level 2
4 Credits/Full Year
Prerequisite: Teacher recommendation

A study of coming of age literature drives this standard college preparatory course, emphasizing foundational skills required in writing longer compositions and in analyzing a variety of literary genres. The course includes instruction in vocabulary, English grammar, oral presentation, and research.

113 English I Reading Composition - Level 2
4 Credits/Full Year
Prerequisite: Teacher recommendation

This course provides students with guided instruction that focuses on developing reading fluency while enhancing comprehension and building vocabulary as students move through the standard English I curriculum.

Eighth Grade ELA teachers may recommend students for this mainstream, co-taught, reading concentrated English I Level 2 course. Co-taught by a dual-licensed English & Reading teacher and a licensed SPED teacher, this course provides students with strategies for reading, writing, and critical thinking while preparing for success in mainstream English II Level 2 in the sophomore year.

GRADE 10 COURSE OFFERINGS

English II

Course Outline

Summer reading evaluations
hero English literary periods
Advanced analysis of a novel
Frequent, extensive writing for many audiences & purposes
Shakespearean tragedy and Aristotle's tragic
Application of poetic and literary terminology
Research paper writing

120 English II - Honors

4 Credits/Full Year

Prerequisite: B- in English 110, A in English 111, and teacher recommendation

This advanced program challenges students to develop analytical and expository communication skills, both independent and collaborative, through studies of the British literary tradition. Students apply their understanding in creative production and media work. The honors level student should become a sensitive, responsible reader able to interpret and appreciate a text critically in preparation for future AP English courses. A major research paper and a multimedia presentation are required for this course.

121 English II - Level 1

4 Credits/Full Year

Prerequisite: C in English 111, A- of better in English 112, and teacher recommendation

Through a survey of English literature, this accelerated college preparatory course examines the intersection of literature and culture. Emphasis is placed on the mastery of basic rhetoric in all forms, in the development of research skills, and in the careful analysis of fiction and nonfiction. A major research paper is required for this course.

122 English II - Level 2

4 Credits/Full Year

Prerequisite: Teacher recommendation

Through a survey of English literature, this standard college preparatory course continues the development of language, writing, speech, and vocabulary essential for effective performance at the college level. A variety of readings, both fiction and nonfiction, examine the intersection of literature and culture. Students are required to conduct research for this course.

GRADE 11 COURSE OFFERINGS

English III

Course Outline

Summer reading evaluations
Examination of writer's craft and structure
Research paper
Writing for different audiences & purposes

Technical research and expository writing

Understanding & appreciating the history of American Literature

131 English III - Level 1
4 Credits/Full Year
Prerequisite: C in English 121, A- of better in English 122, and teacher recommendation

This accelerated college-preparatory program offers a survey of American Literature and the evolution of the American Dream. Language skills are reinforced as necessary. The application of skills in composition, literary analysis, and research is continued at an advanced level and an accelerated pace.

132 English III - Level 2
4 Credits/Full Year
Prerequisite: Teacher recommendation

Developing analytical and critical abilities is the primary objective of the standard college preparatory course. Through the study of major American literary movements and the evolution of the American Dream, students are encouraged to move from concrete to abstract reasoning. Frequent writing emphasizes exposition, analysis, and research. Language skills are reinforced as necessary.

135 AP English Language and Composition
4 Credits/Full Year
Prerequisite: B- in English II 120 or A or better in English II 121, and teacher recommendation

Students in this College Board Advanced Placement course will read and carefully analyze a broad and challenging range of prose selections, deepening their awareness of rhetoric and how language works. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. *Students are required to take the Advanced Placement Exam in English Language and Composition*; satisfactory performance may lead to advanced placement, college credit, or both. Seniors may take AP Language and Composition by gaining signed approval from the English department head.

GRADE 12 COURSE OFFERINGS

145 AP English Literature & Composition
4 Credits/Full Year
Prerequisite: B- in AP Language 135 or an A or better in English 131 or teacher recommendation

This course follows the College Board National Advanced Placement Program in English Literature and Composition. Students will be immersed in a broad range of novels, plays and poems from several time periods and places and will extensively analyze these texts. Students will "learn to think critically, construct solid arguments, and see many sides of an issue—skills that prepare [you] for college and beyond" (collegeboard.org). *S*atisfactory performance ONmay lead to college credit.

Course Outline - Level AP
AP Summer reading and assignments
Personal narrative/college application essay process
AP exam prep
Examination of voice, style and perspective in a diverse range of literature

148 English IV: Mystery, Suspense & True Crime Concentration - Level 1
4 Credits/Full Year
Prerequisite: C in English III 131 or A- of better in English 132, or teacher recommendation

149 English IV: Mystery, Suspense & True Crime Concentration - Level 2
4 Credits/Full Year
Prerequisite: None

The course is designed to prepare students for writing research papers, the continued development of reading and analytical skills, and other ELA skills needed for college and career readiness. In this genre-study course, students will closely examine the traditions and elements of true crime, mystery, and suspense in literature and film. Students will read a range of texts, including novels, short stories, and nonfiction. The course will culminate in a student-created capstone film project.

Course Outline
Summer reading evaluations
Personal narrative or college application essays
Archetypes and conventions of mystery
Study of the true crime genre
Research paper
Conventions of suspense
Mystery and suspense book club
Mystery and suspense in film
Film project
Frequent, formal literary analysis

152 English IV: The Meaning of Life Concentration - Level 1
4 Credits/Full Year
Prerequisite: C in English III 131 or A- of better in English III 132, or teacher recommendation

153 English IV: The Meaning of Life Concentration - Level 2
4 Credits/Full Year
Prerequisite: None

Be yourself. Everyone else is taken." - Oscar Wilde
Yes, but *how*? How do we become our "true selves?" How do we find our voice, our purpose, our people, our own selves in the complicated world you are all a *year* away from entering? In this humanities-style course, students will focus on two crucial pursuits in the life of a graduating senior: *the search for meaning* and *the search for "self."* This course is designed to prepare students for writing research papers, the continued development of reading and analytical skills, and other ELA skills needed for college and career readiness. Students will read and discuss a variety of books and poetry, film and philosophy, music and art, to explore their place in the big and challenging world YOU are about to enter…

Course Outline
Summer reading evaluations
Personal narrative or college application essays
Scrapbook) Formal literary analysis
MLA style research paper
Frequent short, analytical writing
Project-based assessment (Multimedia
Public speaking

161 English IV: Utopia and Dystopia - Level 1
4 Credits/Full Year
Prerequisite: C in English III 131 or A- of better in English 132, or teacher recommendation

162 English IV: Utopia and Dystopia - Level 2
4 Credits/Full Year

Prerequisite: None

This course will examine the difference between ideas of absolute societal perfection and absolute societal imperfection as expressed in literary and cultural texts and modern media. Topics of study through such texts will include the ways we govern, the ways we create order, the ways we progress, and the ways we treat others. Over the course of the semester, students will be confronted with a number of questions. What are the elements of a utopia or dystopia? If one is complete perfection and the other complete imperfection - both by definition unattainable - then why are the concepts even worth talking about, and why have they persisted throughout history and across cultures? And maybe most interestingly, is there much of a real difference between the two?

Course Outline

Summer reading evaluations
Personal narrative or college application essays
Formal literary analysis
Public speaking
MLA style research paper
Frequent short, analytic writing
Project based assessments

154 English IV: Film Criticism through a Literary Lens Concentration - Level 1
4 Credits/Full Year
Prerequisite: C in English III 131 or an A- of better in English III 132, or teacher recommendation

155 English IV: Film Criticism through a Literary Lens Concentration - Level 2
4 Credits/Full Year
Prerequisite: None

The course will provide students with a broad overview of the analytical approach to film by examining filmmaking techniques, genres, directorial styles, and narrative structures. In addition, class readings and discussions will help students become well versed in film terminology and be able to identify film's impact on culture. This is a writing-heavy course, with multiple analytical essays and journals.

Potential NCAA Division 1 athletes should be aware that the NCAA does not recognize any film-related course for high school ELA credit.

Course Outline

Summer reading evaluations
Personal narrative or college application essays
Formal literary analysis
Research paper
Frequent writing opportunities
Film reviews & film project

ENGLISH ELECTIVE OFFERINGS:

164 Public Speaking - Level 1
2 Credits/Semester
Grades: 9-12
Prerequisite: None

This course will enhance students' ability and comfortability in public speaking. It will cover a variety of topics and modes of speaking in which students will be tasked to create and perform several speeches throughout the course of the half-year. Students will learn and demonstrate various performance strategies and incorporate techniques to become effective and confident speakers.

Course Outline

Organizing and delivering a speech on a variety of topics/real-world throughout the semester
Interview preparation
Storybook reading/adapting language to an audience
Research-based discussion and debates

165 Creative Writing - Level 1

2 Credits/Semester
Grades: 9-12
Prerequisite: None

This is a dynamic, project-based course encouraging personal reflection and peer collaboration to produce creative works for *authentic audiences throughout Marshfield Schools and beyond.* This semester-long course affords students the opportunity to write about themselves and for each other in nationwide short-story and poetry competitions; in screenplays and short films they'll screen for their peers; in children's books they'll write for young readers in Marshfield's 5 elementary schools; in reflective compositions that might one day turn into their college essays…or even get published.

Course Outline

The Short Story
The Short Film
Reflective Composition/Personal narrative responses
The Poet's Voice
The Memoir
The Children's Book

HISTORY & SOCIAL STUDIES DEPARTMENT

The History and Social Studies curriculum is designed to meet individual needs through diverse course offerings in history and the social sciences, as well as elective programs available at the survey and in-depth level. These offerings encourage the development of an inquiring mind, an ability to consider multiple perspectives of historical events, a competence in considering alternative solutions to various challenges facing the world, and building the tools needed to be a productive citizen. Students at the honors and Advanced Placement levels will be required to participate in a summer reading program. All Advanced Placement students are required to take the College Board AP exam.

GRADE	AP	HONORS	ACCELERATED COLLEGE PRE LEVEL 1	COLLEGE PREP LEVEL 2
GRADE 9		510 World History Honors	511 World History	512 World History
GRADE 10		520 US History I (Pre-AP)	521 US History I	522 US History I
GRADE 11	535 AP US History II		531 US History II	532 US History II
GRADE 12	545 AP Gov. & Politics 555 AP European History		541 Government & Economics 576 Global Events & Int Relations	542 Government & Economics
ELECTIVE COURSES				
GRADES 11	565 AP Psychology		561 Intro to Psychology 571 Humanities & Philosophy	562 Intro to Psychology
GRADE 12	565 AP Psychology		561 Intro to Psychology 571 Humanities & Philosophy 576 Global Events & Int Relations 579 Topics in Psychology & Sociology 572A Street Law	562 Intro to Psychology

GRADE 9 COURSE OFFERINGS:

World History:

This course studies the histories and cultures of Western and non-Western areas of the world up to, and including, current events. Areas of study include: Europe, Central and South America, Africa, the Middle East, India, Southeast Asia, Japan, and China. Focus includes connecting the various parts of the world and how they develop and relate to one another. This course is in alignment with the Massachusetts Department of Elementary and Secondary Education History and Social Studies Framework.

Course Outline

World Religions
Middle Ages Empires
Absolutism, Enlightenment, Industrialization
Imperialism
World War I through World War II
Cold War and Decolonization
Global Connections - post-1990's

510 World History Honors
4 Credits/Full Year
Grade 9
Prerequisite: A in Grade 8 Social Studies or A English and teacher recommendation
The depth of investigation will be that of an honors course and will prepare students for entry into the Advanced Placement track. Students should possess academic talent (reading, writing, speaking and studying), discipline, enthusiasm, curiosity, and independence at the highest levels of their class.

511 World History - Level 1
4 Credits/Full Year
Grade 9
Prerequisite: Teacher recommendation

The instruction in this course will emphasize progressive skill development in the areas of vocabulary expansion, reading, research, writing, note-taking, geography, and utilization of critical thinking skills, as well as content important to a general understanding of world history. Students will learn to ask complex historical questions and engage in independent research, analyze different historical viewpoints, discussing biases and the reliability of sources. This is a standard college preparatory program designed to adequately prepare students for United States History I.

512 World History - Level 2
4 Credits/Full Year
Grade 9
Prerequisite: Teacher recommendation

This course concentrates on progressive skill development while following the same curriculum and content as the 511 course. The instruction emphasizes skill development in reading, writing, and listening as well as content important to a general understanding of world history. Emphasis is placed on note-taking and basic organizational skills necessary to the process of critical thinking. This is a standard college preparatory program designed to adequately prepare students for U.S. History I.

GRADE 10 COURSE OFFERINGS

UNITED STATES HISTORY I

This is the first half of a two year survey course in American History. After a brief review of early American history, this course will cover material from the American Revolution through the The Gilded Age and Imperialism. This course will allow students to develop a broad set of critical thinking skills. Students will analyze primary sources and college level supplementary reading materials. The course will emphasize cause and effect relationships in history as students learn how to interpret historical events. Discussion questions will relate historically to current events to demonstrate that historical events are not isolated incidents. This course is in alignment with the Massachusetts Department of Elementary and Secondary Education History and Social Studies Framework.

Course Outline

American Revolution
Constitution and Government Foundations
New Republic
Westward Expansion and Market Revolution
Gilded Age and Imperialism
Reconstruction
Civil War
Growth of Sectionalism

520 United States History I Pre-AP
4 Credits/Full Year
Grade 10
Prerequisite: B in World History 510 or an A in World History 511 and teacher recommendation

The purpose of this class is to provide the student with an intensive study of US History from Exploration to Reconstruction as required by the College Board's Advanced Placement curriculum. The interpretation of historical events through the study of primary and secondary sources will be emphasized. Preparation for the Advanced Placement examination in U.S. History at the end of the following year will be a course component. Students should possess academic talent (reading, writing, speaking and studying), discipline, enthusiasm, curiosity, and independence at the highest levels of their class.

Course Outline

Pre-Columbian American
Colonial period the Constitution and New Republic
Confederation and the Constitution
Age of Jackson
Market Revolution
Exploration
Era of the American Revolution
Westward Expansion and Growth of Sectionalism
Civil War and Reconstruction
Guided Age and Imperialization

521 United States History I
4 Credits/Full Year
Grade 10
Prerequisite: C in World History, 511 or A in World History 512 and teacher recommendation

This course emphasizes progressive skill development in the areas of vocabulary expansion, reading, research, writing, note-taking, geography, and utilization of critical thinking skills. Students learn to ask complex historical questions and engage in independent research, analyze different historical viewpoints, discussing biases and the reliability of sources. This is a standard college preparatory program designed to adequately prepare students for United States History II.

522 United States History I
4 Credits/Full Year
Grade 10

Prerequisite: Successful completion of World History 512 and teacher recommendation

This course follows the same curriculum and content as the 521 course. The instruction emphasizes progressive skill development in vocabulary expansion, reading, research, writing, note-taking, geography, and exposure to critical thinking skills. This is a standard college preparatory program designed to adequately prepare students for United States History II.

GRADE 11 OFFERINGS

UNITED STATES HISTORY II

This is the second half of a two year survey course in American History that covers the years 1876 through 2000. The student's ability to study history critically is developed. The student is presented with historical problems and through their text and supplementary reading, the student will propose solutions and develop arguments based on historical fact. The course emphasizes cause and effect relationships, interpretation of historical events, and various viewpoints. Supplementary materials are on the college level with primary sources emphasized. Discussion questions relate the historical past to current events, demonstrating historical events are not isolated happenings. This course is in alignment with the Massachusetts Department of Elementary and Secondary Education History and Social Studies Framework.

Course Outline

WW I
Roaring Twenties
The Great Depression
Defending Democracy (abroad):
Responses to Fascism & Communism
United States and globalization
Impact of WWII Post War Culture
Defending Democracy at Home: the Cold War & Civil Rights Movement
United States and Globalization

535 AP US History II

4 Credits/Full Year
Grade 11
Prerequisite: B in U.S. History 520 or an A in US History 521 and teacher recommendation

The purpose of the Advanced Placement U.S History II class is to provide the student with an intensive study of U.S. History from 1876 to the present as required by the College Board's Advanced Placement curriculum. Major significance will be placed upon the Progressive era, Immigration, WWI, the New Deal, WWII, the Cold War, and Modern America. Emphasis on critical thinking, research and higher order thinking. Students should possess academic talent (reading, writing, speaking and studying), discipline, enthusiasm, curiosity, and independence at the highest levels of their class. *The AP United States History exam is a requirement of this course*

Course Outline

The Gilded Age and Imperialism
The Progressive Era
World War I / The 1920's
The Great Depression /The New Deal
World War II
9/11 and the 21st Century
The Cold War
The Triumph of Conservatism
An Affluent Society
The Sixties
Globalization and Its Discontents

531 United States History II - Level 1
4 Credits/Full Year
Grade 11
Prerequisite: C in U.S. History 521 or an A in US History 522 and teacher recommendation

The instruction in this course will emphasize progressive skill development in the areas of vocabulary expansion, reading, research, writing, note-taking, geography, and utilization of critical thinking skills, as well as content important to a general understanding of US History. Students will learn to ask complex historical questions and engage in independent research, analyze different historical viewpoints, discuss biases and the reliability of sources. This is a standard college preparatory program.

532 United States History II - Level 2
4 Credits/Full Year
Grade 11
Prerequisite: Passing Grade in U.S. History I and teacher recommendation

This course will follow the same curriculum and content as the 531 course. The instruction in this course will emphasize progressive skill development in the areas of vocabulary expansion, reading, research, writing, note-taking, geography, and exposure to critical thinking skills, as well as content important to a general understanding of US History. This is a standard college preparatory program.

Course Outline

Roaring Twenties
Great Depression
United States and Globalization
Defending Democracy at Home: the Cold War & Civil Rights
Defending Democracy (Abroad): Responses to Fascism & Communism

GRADE 12 COURSE OFFERINGS

555 AP European History
4 Credits/Full Year
Grade 12
Prerequisite: B in AP US History 535 or A in US History II 531 and teacher recommendation

Advanced Placement European History is a College Level course which covers the intellectual, religious, economic, social and political history of Europe from the Renaissance up to the present day. In addition to acquiring a thorough knowledge of the history content covered, students will develop reading, writing and analytical skills. Students should possess academic talent (reading, writing, speaking and studying), discipline, enthusiasm, curiosity, and independence at the highest levels of their class. *The AP European History exam is a requirement of this course.*

Course Outline

The Renaissance
Wars of Religion
Exploration and colonization
Enlightenment and the French Revolution
The Industrial Revolution
World War I
The Protestant and Catholic Reformations
The Rise of Powerful Monarchies
English Constitutional development in the 17th Century
Napoleon and reaction
Nationalism and the rise of National States
Russia and the Community Revolution

The Rise of dictators and World War II Cultural Challenges in the West through Present Day

545 AP Government and Politics
4 Credits/Full Year
Grade 12
Prerequisite: B in AP US History 535 or an A in US History II 531 and teacher recommendation

The Advanced Placement U.S. Government and Politics course involves an in-depth study of democratic ideas, balances of power, and tension between the practical and ideal in national policy-making. Students will analyze and discuss the importance of various constitutional principles, rights and procedures, institutions, and political processes that impact us as citizens. Students should possess academic talent (reading, writing, speaking and studying), discipline, enthusiasm, curiosity, and independence at the highest levels of their class. *The AP Government and Politics exam is a requirement of this course.*

Course Outline
Constitutional Underpinnings of U.S. Government
Judiciary & Civil Rights & Civil Liberties
Political Parties, Interest Groups and Media
Policy: Domestic, Economic & Foreign
Government Institutions: Congress, Presidency, Bureaucracy
Political Beliefs and Behaviors

Government and Economics

The Government semester will develop an understanding of the US government's structure and functions. The organization of the national government, domestic and foreign policies and critical issues, will comprise the areas of concentration. Research reports on government issues are course requirements. The Economics semester is devoted to acquiring a familiarity with the basic principles of economics and personal finance. This course covers capitalism and the significance of Economics to the political structure. Introductory elements of financial literacy will be covered. This course is in alignment with the Massachusetts Department of Elementary and Secondary Education History and Social Studies Framework.

Course Outline
Origins/Types of Government
Review of the U.S. Constitution
Legislative Branch
Executive Branch
Judicial Branch /Supreme Court Cases
Economic Systems
Introduction to Basic Economic Concepts
Personal Finance
Investment Opportunities (Stocks, Mutual Fund…)

541 Government and Economics - Level 1
4 Credits/Full Year
Grade 12
Prerequisite: Successful completion of US History II 531 or AP US History 535, and teacher recommendation

The instruction in this course will emphasize progressive skill development in the areas of vocabulary expansion, reading, research, writing, note-taking, geography, and utilization of critical thinking skills, as well as content important to a general understanding of the government. Students will learn to ask complex historical questions and engage in independent research, analyze different viewpoints, discuss biases and evaluate the reliability of sources. This is a standard college preparatory program.

542 Government and Economics - Level 2
4 Credits/Full Year
Grade 12
Prerequisite: Successful completion of US History II 532 or 531 and teacher recommendation

This course will follow the same curriculum and content as the 541 course. The instruction in this course will emphasize progressive skill development in the areas of vocabulary expansion, reading, research, writing, note-taking, geography, and exposure to critical thinking skills, as well as content important to a general understanding of the government. This is a standard college preparatory program.

576 Global Events and International Relations - Level 1
4 Credits/Full Year
Grade 12
Prerequisite: Successful completion of AP US History II 535, or B in US History 531, or A in US History 532

The goal is to provide students with the information needed to assess past and present developments in international relations and to study the contemporary world through extensive readings and outside projects aimed at developing an understanding of the institutions, the mechanisms and the social, political and economic conditions influencing the conduct of international relations today. Special attention will be paid to the United States' role as a world power and to promoting awareness and open-mindedness to the world community in the 21st century.Supplemental materials and guest speakers are utilized in order to maximize the academic experience of students. The content is student-driven as current world affairs are unpredictable.

Course Outline

Israeli/Palestinian Conflict
China, Japan, Korea, and East Asia
NATO and International Treaties
Genocide/Human rights
Global Refugee Crisis/Immigration
Central and South America
Nuclear weapons
Extremism/Terrorism
U.S. role in the world
Rise of Africa
Climate change
Foreign aid
Poverty/Global Economic Development
International trade
Middle East and North Africa
Russia and Eastern Europe
United Nations
Comparative government

SOCIAL STUDIES ELECTIVE OFFERINGS

565 AP Psychology
4 Credits/Full Year
Grades 11-12
Prerequisite: B in US History 520 or AP US History 535 or an A in US History I 521 and US History II 531.

The Advanced Placement Psychology course is a more in-depth introduction to the systematic study of behavior and the mental processes of humans and animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subjects within psychology. Students will also learn about the methods psychologists use in their science and practice. Successful completion of this course will prepare the student for the AP Psychology Exam. Students should possess academic talent

(reading, writing, speaking and studying), discipline, enthusiasm, curiosity, and independence at the highest levels of their class. *The AP Psychology Exam is a requirement of this course.*

Course Outline

Methods, approaches and history
Biological basis of behavior: The Brain
Sensation and Perception
States of consciousness
Learning
Motivation, Emotion and Stress
Memory and Memory Construction
Developmental Psychology
Personality - theories and approaches
Cognitive Psychology
Abnormal Psychology
Social Psychology
Thinking, Language and Intelligence

561 Introductory Psychology - Level 1

4 Credits/Full Year
Grades 11-12
Prerequisites: Successful completion of AP US History 535 or B- in US History 1 521 or US History II 531

This full year course is designed as an introduction to the systematic study of behavior and the mental processes of humans. The units are designed to expose the student to psychological terminology and concepts in the vast area of psychology.

Course Outline

Introduction
Biology of the Brain
Sensation and Perception
Memory and Consciousness
Human Development
Learning
Psychological Disorders
Personality
Social Psychology

562 Introductory Psychology - Level 2
4 Credits/Full Year
Grades 11-12
Prerequisite: None

This full year course is designed as an introduction to the systematic study of behavior and the mental processes of humans. The units are designed to expose the student to psychological terminology and concepts in the vast area of psychology.

Course Outline

Introduction
Biology of the Brain
Sensation and Perception
Memory and Consciousness
Human Development
Learning
Psychological Disorders
Personality
Social Psychology

571 Humanities & Philosophy - Level 1
4 Credits
Grades 11-12

Prerequisite: None

This is a seminar style course designed for students who wish to attend a four year liberal arts college. This course will use various arts and literature to explore the different facets found in the study of philosophy and humanities including liberty, justice, beauty, reality, the "good life", evil, absolute right and wrong, friendship, and altruism. The course builds skills in reading, writing, creating, discussing, listening, and critical thinking. Reflecting actively is central to this course. Materials used in this course include, but are not limited to movie clips, book chapters, artwork (paintings / images), music, poems, and videos.

Course Outline

The Value and Importance of the Humanities
Roots of Philosophy
Basics of Political Philosophy
Basics of Aesthetics
Ethical Theory
Nature and Nurture
Existentialism

572A Street Law - Level 1
4 Credits/Full Year
Grade 12
Prerequisite: None

This college prep level course will provide students with a basic understanding of the justice spectrum from studies in human behavior through criminal and civil law. Vocabulary building, case studies, video and classroom simulations are used. This is a discussion based class where participation and attendance are critical factors in the student's grades.

Course Outline

Introduction to law
Categories of crime
Gangs and Organized Crime
Controlled Substances and Alcohol
The prison system
Rights of the accused
Arrest- search and seizure
Interrogation, Arraignment, the Trial, Plea Bargaining
Defenses

579 Topics in Psychology & Sociology - Level 1
4 Credits/Full Year
Grade 12
Prerequisite: Successful completion of AP Psychology 565, Psychology Level I 561 or Level II 562

This full year course is designed to go deeper into Psychology and give students an introduction to the field of Sociology. Students will learn how the fields interact and are used to analyze human behavior, mental processes, and social interactions.

Course Outline

Psychology:
Motivation, Emotion and Stress - SEL
Thought and Language
Intelligence Culture:
Methods of Therapy

Sociology:
Intro: Foundations, History, perspectives, and research
Society and Socialization: types of society,
how does interaction with society develop who we are?
Stratification in Society: Race, gender, age

Current issues in Modern Psychology Social institutions: Education, health, religion, media

MATHEMATICS DEPARTMENT

The Mathematics Department currently offers a wide variety of courses to students from different academic backgrounds, with different mathematical abilities and diverse career goals as their objective. Subject matter is taught with an emphasis on why mathematical processes are performed as they are, along with the practical application of these concepts. Achievement in mathematics is based on students' clear understanding of concepts and their use in solving problems. The *Common Core* standards are embedded in all of our mathematics curricula as the mathematics department is continually working to improve practice and instruction. The core course offerings have been aligned by year in the Program of Studies, followed by the electives that are available. Doubling up on Algebra 2 (231) and Geometry (221) during sophomore year is possible for those students who meet the prerequisite in Algebra 1 (211) and demonstrate a genuine desire to excel in the mathematics arena. It is possible to enroll in two math courses in any given year as well, providing that the prerequisites for each course have been met. All students will need a calculator (TI-84+CE is recommended).

The following sequence of course options is intended to help students in their course selection based on their abilities, interests, and long-range goals. If you have any questions with regard to which course best suits your needs, please consult your current math teacher, the Math Department Head, or your guidance counselor.

Please note that you earn +5 percentage points towards your current term grade when transitioning to a lower level math course of the same content.

	AP	HONORS	COLLEGE PREP LEVEL 1	COLLEGE PREP LEVEL 2
GRADE 9		220 Geometry Hon	221 Geometry 211 Algebra 1	212 Algebra 1
GRADE 10		230 Algebra 2 Hon	221 Geometry 231 Algebra 2	222 Geometry
GRADE 11	265 AP Statistics	240 Pre-Calculus Hon	241 Pre-Calculus 231 Algebra 2	232 Algebra 2 242 Pre-Calculus
GRADE 12	265 AP Statistics 255 AP Calculus AB		241 Pre-Calculus 251 Calculus 261 Statistics	242 Pre-Calculus 272 Discrete Math 233 Algebra 3

211 Algebra 1 - Level 1
4 Credits/Full Year
Prerequisite: B+ in 8th grade Common Core or C-/D in Grade 8 Compacted Math

212 Algebra 1 - Level 2
4 Credits/Full Year
Prerequisite: Credit in 8th grade Common Core

This course builds upon and extends the mathematics that students learn in the middle grades. Algebra I is the foundation of the high school mathematics program. To that end, mastering the skills and concepts presented in this course is critical to students' success in subsequent mathematics courses. All topics essential to the Common Core Algebra 1 curriculum are covered which include, equations, inequalities in one variable, polynomials, graphs, relations, functions, quadratic equations, statistics, probability, radicals, exponentials, and real numbers. Students are encouraged to have a graphing calculator (TI-84+CE) for all four years of study.

220 Geometry Honors
4 Credits/Full Year
Prerequisite: B+ in Grade 8 Compacted Math

221 Geometry - Level 1
4 Credits/Full Year
Prerequisite: C in Grade 8 Compacted Math

222 Geometry - Level 2
4 Credits/Full Year
Prerequisite: Credit in Algebra 1 212

Geometry covers all the important Plane Geometry topics as well as the terminology involved. Topics learned in this course include the language of geometry (points, lines, planes and angles), reasoning and proofs, parallel and perpendicular lines, congruent triangles and their applications, quadrilaterals, similarity, right triangles, trigonometric ratios, conic sections, circles, polygons and area, surface area and volume, coordinate geometry, probability & statistics and transformations. Throughout this course, you will also learn how to recognize and apply Geometry in real world situations. Students should be able to apply the algebra skills necessary to successfully complete the geometry assignments. Students are encouraged to have a graphing calculator (TI-84+CE) for all four years of study.

230 Algebra 2 Honors
4 Credits/Full Year
Prerequisite: B+ in 8th Grade Compacted & Honors Geometry 220

231 Algebra 2 - Level 1
4 Credits/Full Year
*Prerequisite: C in Algebra 1 211 and Geometry 22*1

232 Algebra 2- Level 2
4 Credits/Full Year
Prerequisite: Passed Geometry 222 and Algebra 1 211 or 212

Algebra 2 is a course that expands on Algebra I topics and covers algebraic topics necessary for Pre-Calculus. Students will continue to develop their skills and strategies while moving on to progressive concepts. This course includes solving equations, rational expressions, polynomials, radicals, quadratics, vectors, complex

numbers, exponential & logarithmic functions, systems of equations, inequalities, linear programming, trigonometric ratios & functions, probability & statistics, sequences & series, and matrices. A graphing calculator (TI-84+CE) is required for this course and is used throughout the curriculum.

233 Algebra 3 - Level 2
4 Credits/Full Year
Prerequisite: Passing Grade in Algebra 2 232 or D in Algebra 2 231 with teacher recommendation. (Grade 12 only unless recommendation provided by the department head.)

Algebra 3 is a course designed for students who have successfully completed Algebra 2 and are working towards continuing their math knowledge into topics necessary to prepare them for Pre-Calculus or college-level Mathematics. Students will expand upon their knowledge of functions and their graphs by analyzing Polynomial, Rational and Radical Functions, Conic Sections and Non-Linear Systems, Exponential and Logarithmic Functions, Trigonometric Functions, Analytical Trigonometry as well as Combinations and Probability. Students will also be able to make connections between the functions studied and their real-world applications. A graphing calculator (TI-84+CE) is recommended for this course and is used throughout the curriculum.

240 Pre-Calculus Honors
4 Credits/Full Year
Prerequisite: B- in Honors Algebra 2 230

241 Pre-Calculus - Level 1
4 Credits/Full Year
Prerequisite: C in Algebra 2 230 or 231

242 Pre-Calculus - Level 2
4 Credits/Full Year
Prerequisite: B- in Algebra 2 232 or a C- in Algebra 2 231

Pre-Calculus is designed to prepare students to successfully enter Calculus. Using algebraic, numeric, graphic, and verbal methods, traditional topics of advanced algebra, conic sections, and trigonometry are taught. Emphasis is placed on understanding, skills mastery, problem solving, and having an independent thought process. Students need to persevere, think critically, and use mathematics to model and solve problems using: exponents, factoring, rational expressions, radicals, special right triangles, and linear equations. A graphing calculator (TI-84+CE) is required for this course and is used throughout the curriculum.

251 Calculus - Level 1
4 Credits/Full Year
Prerequisite: C in Pre-Calculus 241 or 240 and B- in Algebra 2 231 or 230

Note: Summer work is required for this course. Please consult the teacher for details.

In this course, students will study a graphical, analytical, and algebraic approach to Calculus. Students will gain a strong understanding of the concepts of Calculus, as well as develop a solid foundation that will help them succeed in future mathematics courses. Emphasis will be placed not on memorization, but on the comprehension of how and why calculus works. Topics include limits and rates of change, derivatives and applications of derivatives, maximum and minimum problems, related rates, the Fundamental Theorem of

Calculus, the definite integral and applications of integration. The depth, pace, and number of concepts covered is different from the AP course. Students are required to complete a summer packet reviewing Algebra 2 and Pre-Calculus concepts that will be assessed during the first week of school. A graphing calculator (TI-84+CE) is required for this course and is used throughout the curriculum. Dual Enrollment through Quincy College is also an option for students to earn 4 college credits.

Course Outline

Limits of Functions & Continuity
Rates of Change & Definition of the Derivative
Rules of Differentiation
Applications of the Derivative
Higher Order Derivatives
Intervals of Increase & Decrease
Relative and Absolute Extreme Values
Fundamental Theorem of Calculus
Curve Sketching (relating f, f', & f'')
Area and the Definite Integral
Intervals of Concavity
The Indefinite Integral

255 AP Calculus AB

4 Credits/Full Year

Prerequisite: B- in Honors Pre-Calculus 240 AND Honors Algebra 2 230

Note: Summer work is required for this course. Please consult the teacher for details.

This course is designed to meet the Advanced Placement curriculum. In this course, students will study a graphical, analytical, and algebraic approach to Calculus. Students will gain a strong understanding of the concepts of Calculus, as well as develop a solid foundation that will help them succeed in future mathematics courses. Emphasis will be placed not on memorization, but on the comprehension of how and why Calculus works. Topics include limits and rates of change, derivatives and applications of derivatives, maximum and minimum problems, related rates, the Fundamental Theorem of Calculus, the definite integral and applications of integration. The scheduling of the course allows for several weeks of review before the exam during which time the students take previous exams, as well as, work on numerous free response questions. Students are required to complete a summer packet reviewing Algebra 2 and Pre-Calculus concepts that will be assessed during the first week of school. Students are required to take the Advanced Placement exam in Calculus AB in May. A graphing calculator (TI-84+CE) is required for this course and is used throughout the curriculum.

Course Outline

Limits of functions
Continuity
Rates of Change & Def. of the Derivative
Rules of Differentiation
Applications of the Derivative
Linearization
Higher order derivatives
Intervals of increase/decrease
Relative and Absolute Extreme Values
Intervals of Concavity
L'Hopital's Rule
Curve Sketching (relating f, f' and f'')
Area and the Definite Integral
The Fundamental Theorem of Calculus
The Indefinite Integral
Slope fields
Differential Equations
Volume and the Definite Integral

261 Statistics - Level 1

4 Credits/Full Year

Prerequisite: B- in Algebra 2 231 or C in Algebra 2 230

Note: Summer work is required for this course. Please consult the teacher for details.

The purpose of a Statistics course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad themes: exploring data,

sampling and experimentation, anticipating patterns, statistical inference. The emphasis of the course will be on improving the students' ability to effectively communicate using the vocabulary and methods of statistics. The concepts behind various topics will be emphasized rather than the mechanics. Students will make extensive use of their TI-84+CE calculator and use it as an aid in assessing models, performing simulations, and exploring data. Activities will play an important role in the students' learning. Assessment will rely heavily on written investigative assignments and projects along with traditional tests and quizzes. Collection of real data will help students discover many concepts on their own. Interpretation and communication of their findings visually, verbally and in a written format will be the goal throughout the year.

Course Outline

Graphical Display	Principles of Counting	Confidence Intervals
Bivariate Data	Probability & Relative Frequency	Explore Relationships & Make Inferences
Summarizing & Comparing Distribution	Normal and Sampling Distributions	Collect, Organize, & Display Relevant Data
Planning & Conducting a Survey	Test of Significance	
Formulate questions that can be addressed with data		

265 AP Statistics
4 Credits/Full Year
Prerequisite: A- in Algebra 2 231 or B- in Algebra 2 230, B- in English 121/120
Note: Summer work is required for this course. Please consult the teacher for details.

This course is designed to meet the Advanced Placement Curriculum. This course moves at a much faster pace and depth than the Level 1 Statistics. The course is mapped to finish weeks before the exam allowing for ample opportunities for review and practice with previous exams and open response questions. The purpose of the AP Statistics course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad themes: exploring data, sampling and experimentation, anticipating patterns, statistical inference. The emphasis of the course will be on improving the students' ability to effectively communicate using the vocabulary and methods of statistics. The concepts behind various topics will be emphasized rather than the mechanics. Students will make extensive use of their TI-84+CE calculator and use it as an aid in assessing models, performing simulations, and exploring data. Activities will play an important role in the students' learning. Assessment will rely heavily on written investigative assignments and projects along with traditional tests and quizzes. Collection of real data will help students discover many concepts on their own. Interpretation and communication of their findings visually, verbally and in a written format will be the goal throughout the year. Students are required to take the AP Statistics exam in May.

Course Outline

Graphical Display	Principles of Counting	Confidence Intervals
Bivariate Data	Probability & Relative Frequency	Explore Relationships & Make Inferences
Summarizing & Comparing Distribution	Normal and Sampling Distributions	Collect, Organize, & Display Relevant Data
Planning & Conducting a Survey	Test of Significance	
Formulate questions that can be addressed with data		

272 Discrete Mathematics - Level 2
4 Credits/Full Year

Prerequisite: Passing grade in Geometry 222 and Algebra 1 212 (Grade 12 only unless recommendation provided by the department head.)

Discrete Mathematics consists of concepts and techniques for studying finite processes and discrete phenomena. Applications come from a variety of settings, including project management, communication networks, lotteries, voting, fair division, finance, population growth and social relations. Central themes in all contexts are existence (does a solution exist?), algorithmic problem solving (can one efficiently construct a solution?), and optimization (which is the best solution?).

Course Outline

Represent real life situations using the concepts of graph theory
Collect, organize, and display relevant data
Apply counting principles to real world problems
Explore math models that use directed graphs & probability theory
Select and use appropriate statistical methods to analyze data
Explore election theory and social choice

1005718

MUSIC DEPARTMENT

GRADE 9 & UP	GRADES 10, 11 & 12
1005 Guitar Workshop	1005 Guitar Workshop
1006 Piano Workshop	1006 Piano Workshop
1007 Intro to Guitar	1007 Intro to Guitar
1008 Beginner Piano	1008 Beginner Piano
1009 Music Production Recording	1009 Music Production Recording
1012 Advanced Guitar	1012 Advanced Guitar
1010 Symphonic Band Honors	1010 Symphonic Band Honors
1011 Symphonic Band	1011 Symphonic Band
1020 Marshalairs Honors	1020 Marshalairs Honors
1021 Concert Choir	1021 Concert Choir
1040 Chamber Orchestra Honors	1040 Chamber Orchestra Honors
1041 Concert Orchestra	1041 Concert Orchestra
1051 Music Theory	1051 Music Theory
	1055 AP Music Theory

The Marshfield High School Music Department seeks to offer every student musically rewarding and educational experiences through a set of course offerings which suit a range of abilities and interests. To that end, we offer entry-level band, chorus, and string ensembles (no audition required), and advanced band, chorus, and string ensembles (entrance by audition). Students should see their music teacher or a member of the music staff for audition requirements. The MHS Music Department also offers non-performance based music theory, music production, guitar, and piano classes. Jazz Band (by audition) is an extracurricular activity.

1005 Guitar Workshop - Unleveled
2 Credits/Semester
Grades 9-12
Prerequisite: none

Workshop is a semester course designed to teach the guitar basics. Students interested in a full year guitar course should sign up for Intro to Guitar. Beginning with the very basics of guitar, students will learn to play through group instruction and individual practice time. Students may bring their own guitar for class or be provided one by the school. Guitar Workshop is a great opportunity for you to start learning to play the guitar!

Course Outline
Guitar Fundamentals
Guitar Care/Maintenance
Basic Rhythms
Basic Notation
Strumming

1006 Piano Workshop - Unleveled
2 Credits/Semester
Grades 9-12
Prerequisite: None

Piano Workshop is a semester course designed to teach the piano basics. Students interested in a full year piano course should sign up for Beginner Piano. Piano Workshop is open to all students with no prerequisite. No previous piano or music experience is required. Students will spend time learning piano through group instruction and individual practice time. Piano Workshop is held in our Music Technology Lab. This lab has 16 individual workstations (each with a piano, computer, and headphones) which enables students to work as a group and independently at their own pace. Students will be able to make recordings of the songs we practice during the semester. Piano Workshop is a great opportunity for you to start learning to play the piano!

Course Outline

Piano Fundamentals	Musical Instrument Digital Interface (MIDI)
Basic Rhythms	Basic Notation

1007 Intro to Guitar - Unleveled
4 Credits/Full Year
Grades 9-12
Prerequisite: None

Have you always wanted to learn how to play guitar but didn't know where to start? This is the course for you! Intro to Guitar is a full year course designed to teach you the fundamentals of playing the guitar. This course is open to all students and no previous guitar or music experience is required. Students will learn to play guitar through group instruction and individual practice time. Students will be able to learn music of their choice as well as create their own music. Students may bring their own guitar for class or be provided one by the school. Intro to Guitar is a great opportunity for you to have a full year of building their guitar skills!

Course Outline

Guitar Fundamentals	Strumming/Finger Picking Patterns
Basic Notation	Composition
Basic Rhythms	Guitar Care/Maintenance
Tablature	

1008 Beginner Piano Class - Unleveled
4 Credits/Full Year
Grades 9-12
Prerequisite: None

Have you always wanted to learn how to play piano but didn't know where to start? This is the course for you! Beginner Piano class is designed to teach the fundamental skills to play the piano. Beginner Piano is open to all students and no previous piano or music experience is required. Students will spend time learning piano through group instruction and individual practice time. Students will be able to learn music of their choice as well as create their own music. Beginner Piano class is held in our Music Technology Lab. This lab has 16 individual workstations (each with a piano, computer, and headphones) which enables students to work as a group and independently at their own pace. Students will be able to make recordings and create sheet music for the music they compose. Beginner Piano class is a great opportunity for you to have a full year of building your piano skills!

Course Outline

Piano Fundamentals
Basic Notation
Basic Rhythms
Musical Instrument Digital Interface (MIDI)
Computer Skills
Composition
Music Technology

1009 Music Production/Recording - Unleveled
4 Credits/Full Year
Grades 9-12
Prerequisite: None

This full-year course is for the student interested in making music recordings of many types and styles. No prior music experience is required.. Students will use various technological tools to create songs and recordings. Among the topics to be explored are Virtual Instruments and Loops, MIDI, Digital Audio Workstations (DAWs), Electronic Sound Design, Microphones and Recording, Mixing, and Mastering.

Course Outline

Basics of Songwriting
DAWs and MIDI
Recording Fundamentals
Performing, recording and production techniques
Mixing and Mastering

1012 Advanced Guitar
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of intro to guitar 1007 or teacher recommendation

Do you know how to play guitar but want to enhance your guitar skills? This is the course for you! **Advanced Guitar** is a full year course designed to teach you advanced techniques for playing the guitar. This course is open to all students with a prerequisite of **Intro to Guitar** or student demonstration of skills learned in **Intro to Guitar**. Students will learn to expand their guitar skills through group instruction and individual practice time. Students will be able to learn music of their choice and create their own music. Students will learn to read music notation, guitar tablature, play multiple parts as a class and in small groups, and use music theory to better understand advanced guitar techniques. Students may bring their own guitar for class or use our school guitars. **Advanced Guitar** is a great opportunity for you to have a full year of enhancing your guitar skills!

Course Outline Level: UL

Advanced Guitar techniques
Notation/Reading
Rhythms
Tablature
Sight Reading
Advanced Strumming/Finger Patterns
Composition
Guitar Care/Maintenance
Solo/Duet/Trio/Quartet Ensemble
Chord Structure/Patterns Nymph

1010 Symphonic Band Honors
4 Credits/Full Year
Grades 9-12
Prerequisite: Audition or teacher recommendation for returning students

The purpose of this course is to give musically advanced students the opportunity to study and perform a wide variety of advanced wind ensemble music. Music reading and some music theory are also studied. Emphasis is placed on the study and performance of literature representative of a wide range of styles, composers, historical periods, forms and nationalities. Performances are considered a part of this course and are required of all members. **Participation in Pep Band and town parades is required of all class members.**

Course Outline

Music reading skills	Individual technique
Performance skills	Historical perspective
Fundamental music theory	Ensemble technique

1011 Symphonic Band - Level 1
4 Credits/Full Year
Grades 9-12
Prerequisite: Reasonable proficiency on a band instrument

The purpose of this course is to give students the opportunity to study and perform a wide variety of music. Music reading and some music theory are also studied. Emphasis is placed on the study and performance of selected band literature representative of a wide range of styles, composers, forms, periods and nationalities. Performances are considered a part of this course and are required of all members. **Participation in Pep Band and town parades is required of all class members.**

Course Outline

Music reading skills	Individual technique
Performance skills	Historical perspective
Fundamental music theory	Ensemble technique
Listening skills	

1020 Marshalairs Honors
4 Credits
Grades 9-12
Prerequisite: Audition or teacher recommendation for returning students

Marshalairs is the only auditioned choral ensemble at Marshfield High School and is open to all students grades 9-12. Auditions are held annually at the end of February/beginning of March and students are required to re-audition every year. In this course, students will study choral selections from various genres of music, from classical to pop, primarily focusing on acapella (unaccompanied) music. Individual singing and part testing is a regular part of the rehearsal. Lessons are centered on reading music and proper vocal production in small and large ensemble settings. Attendance at all concerts is mandatory, and participation in music festivals is encouraged. Singers enrolled in this course also have a wide variety of performance opportunities throughout the year, including community performances, singing the National Anthem at a Boston Celtics game, solo night, holiday performance at Beth Israel Hospital, and the opportunity to participate in music department trips to Boston, New York City, and Disneyland, California.

Course Outline

Vocal Technique
Listening/Analyzing
Small and Large Group Performances
Music Fundamentals
Sight-Reading
Performance Skills
Historical Perspective
Ensemble Technique

1021 Concert Choir - Level 1
4 Credits/Full Year
Grades 9-12
Prerequisite: None

Concert Choir is a mixed chorus for singers grades 9-12. No previous music experience is required. This chorus is designed for all students, from beginner to the advanced singer. We will sing a variety of songs from classical to popular music. Attendance at evening concerts is mandatory. Students also will have the option to participate in auditioned music festivals. Singers enrolled in this course also have the opportunity to participate in additional optional performances/field trips throughout the year. Highlights include singing the National Anthem at a Boston Celtics game, day trip to see Broadway musical in New York City, 4-5 day trip to New York City, and 5 day trip to perform at Disneyland in California.

Course Outline
Vocal Technique
Listening/Analyzing
Small and Large Group Performances
Music Fundamentals
Sight-Reading
Performance Skills
Historical Perspective
Ensemble Technique

1040 Chamber Orchestra Honors
4 Credits/Full Year
Grades 9-12
Prerequisite: Audition or teacher recommendation for returning students

The purpose of this course is to give proficient string students the opportunity to study and perform a wide variety of more advanced orchestral music. Music reading and some music theory are also studied. Emphasis is placed on the study and performance of literature representative of a wide range of styles, composers, historical periods, forms, and nationalities. Performances are considered a part of the course and are required of all members.

Course Outline
Music reading skills
Individual technique
Historical perspective
Fundamental music theory
Ensemble technique
Listening skills

1041 Concert Orchestra - Level 1
4 Credits/Full Year
Grades 9-12
Prerequisite: Reasonable proficiency on string instrument

The purpose of this course is to give students the opportunity to study and perform a wide variety of music. Music reading and some music theory are also studied. Emphasis is placed on the study and performance of

selected string and/or orchestra literature representative of a wide range of styles, composers, forms, periods and nationalities. Performances are considered a part of this course and are required of all members.

Course Outline

Music reading skills
Individual technique
Historical perspective
Performance skills
Fundamental music theory
Ensemble technique
Listening skills

1051 Music Theory - Level 1
4 Credits/Full Year
Grades 9-12
Prerequisite: None

Interested in learning how to write music works? This is the course for you! Music Theory/Piano Lab is open to any student grades 9-12. No previous music experience is required. It is designed for all students, from beginner to advanced. Music Theory/Piano Lab is a course for students interested in learning more about the basic elements of music writing. Students will be able to learn music of their choice and create their own music using online (cloud) music software. Some basic piano instruction is included. Our Music Technology Lab has 16 individual workstations (each with a piano, computer, and headphones) which enables students to work independently at their own pace. Music Theory/Piano Lab curriculum focuses on teaching concepts through familiar music to help students further understand the music they listen to everyday.

Course Outline

Notation
Harmony
Ear-training
Listening and Analyzing
Composition
Music Technology
Piano Fundamentals
Computer Skills

1055 AP Music Theory
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Music Theory I 1051 or pass proficiency exam

By definition, an Advanced Placement Music Theory course must be comparable in content and expected level of accomplishment to a first year course in college. The course is designed to encompass an in-depth study of the fundamental elements of music and promote fluency with basic music materials. This course integrates the study of melody, harmony, texture, rhythm, and form. Time is devoted to the analysis of notated examples; to the development and acquisition of aural (listening) skills, sight singing, and keyboard harmony; and two part writing and harmonization. The student who successfully completes this course should be able to recognize and describe basic materials and processes of music as performed or presented in score. Students should understand the "why" of music as well as the "what". Equally important, AP Music Theory students develop a unique melding of intellect, discipline, and creativity which is integral to the development of musicianship. Each student will have their own “music technology work station”, fully equipped with music software and piano keyboard. This course is taught in the music lab, enabling students

to explore music technology and music software in an individualized interactive classroom setting. Students are required to take the AP Music Theory Exam in May.

Course Outline

Review of Music Theory I Course	Ear-Training
7th Chords/Secondary Dominants	Sight-singing
Voice Leading in 4-parts	Musical form and analysis
Secondary Dominants	Listening/analyzing
Counterpoint	Composition
Melodic Structure	Texture
Music Technology	Computer Skills

SCIENCE DEPARTMENT

Today our world has changed and is more complex where nearly every aspect of our lives is affected by scientific and technological reasoning. The influence of science on our lives is evident when we make healthcare decisions, analyze current events and make changes to the environment in which we live.

There are two major objectives in the study of any science course. One is to become acquainted with the significant facts, concepts and theories upon which that area of science is based. The second is to learn what science is and to recognize the methods of discovery which provide knowledge about the natural world. Experience-centered lessons employing an inquiry based laboratory approach, provide the foundation of all science courses. The curriculum profile below shows the recommended progression through the courses of study which best serve the needs of all student's interests and abilities. Please note that ALL AP Science courses have summer work.

	AP	HONORS	COLLEGE PREP LEVEL 1	COLLEGE PREP LEVEL 2
GRADE 9		410 Biology Hon	411 Biology	412 Biology 413 Biology 1A
GRADE 10		420 Chemistry Hon	421 Chemistry	422 Chemistry 414 Biology 1B 462 Marine Science 442 Anatomy & Physiology 452 Environmental Science 473 Astronomy
GRADE 11	415 AP Biology 425 AP Chemistry 455 AP Environmental Science	430 Physics Honors 440 Anatomy and Physiology Honors	431 Physics 441 Anatomy and Physiology 451 Environmental Science 461 Marine Science	432 Physics 442 Anatomy and Physiology 452 Environmental Science 462 Marine Science 472 Forensic Science 473 Astronomy
GRADE 12	415 AP Biology 425 AP Chemistry 455 AP Environmental Science 435 AP Physics	430 Physics Honors 440 Anatomy and Physiology Honors	431 Physics 441 Anatomy and Physiology 451 Environmental Science 461 Marine Science	432 Physics 442 Anatomy and Physiology 452 Environmental Science 462 Marine Science 472 Forensic Science 473 Astronomy

Please be sure to choose those courses and levels of difficulty which are consistent with your abilities, interests and long range ambitions. It is possible to elect two science courses in one year providing the prerequisites for each course have been met.

BIOLOGY COURSE OFFERINGS:

410 Biology Honors
4 Credits/Full Year
Prerequisite: A- in 8th grade Science B- in Compacted Math or teacher recommendation

Honors Biology is an introductory course in biology. This course is for students with strong academic skills. The course is fast-paced, rigorous, and requires consistent effort and work to achieve at the highest level. It is appropriate for students who will go on to college and probably major in science or an allied field. Topics covered in this course will include; From molecule to organism (biochemistry and cells to organism), Heredity: inheritance and variation of traits, Biological evolution: Unity and Diversity and Ecosystems: Interactions, Energy, and Dynamics. Students will be expected to give oral presentations and complete comprehensive lab reports.

411 Biology - Level 1
4 Credits/Full Year
Prerequisite: B- in 8th grade Science, C- in Compacted Math or B- in Common Core Math

Students who are recommended for this course build on a strong foundation of content and skills. This comprehensive introductory biology course covers from molecule to organism (biochemistry and cells to organism), Heredity: inheritance and variation of traits, Biological evolution: Unity and Diversity and Ecosystems: Interactions, Energy, and Dynamics. Students will develop more organizational and lab based skills needed to balance both short and long term assignments. This course will provide good preparation for further study in science, both in high school and at the college level.

412 Biology - Level 2
4 Credits/Full Year
Prerequisite: None

This comprehensive course in biological science will introduce the student to the world of living things and will develop an appreciation of the methods of science through a laboratory program that is coordinated with the text material. A variety of topics will be covered in this course, including: From molecule to organism (biochemistry and cells to organism), Heredity: inheritance and variation of traits, Biological evolution: Unity and Diversity and Ecosystems: Interactions, Energy, and Dynamics. Students will gain more understanding of the content and lab skills as they move through this program.

413 Biology 1A - Level 2
4 Credits/Full Year
Prerequisite: By teacher recommendation only

This is part one of a two-year comprehensive course in biological science that is designed to maximize the opportunity to meet state testing requirements in science for graduation. A variety of topics will be covered in this course, including: Scientific Method and From molecule to organism (biochemistry and cells to

organism) and some DNA. Students in this class will develop organization and study skills. The course uses a systems approach to provide a basic understanding of all major areas of modern biology.

414 Biology 1B - Level 2
4 Credits/Full Year
Prerequisite: Successful completion of 413 Biology 1A and teacher recommendation

This is year two of a comprehensive curriculum in the biological sciences. The first quarter of the course will incorporate an extensive review of the concepts presented in 413 Biology: scientific method, Heredity: inheritance and variation of traits, Biological evolution: Unity and Diversity and Ecosystems: Interactions, Energy, and Dynamics and Body systems will complete the curriculum.

415 AP Biology
4 Credits/Full Year
Prerequisite: B- in Biology 410, or A- in Biology 411 & B- in Chemistry 420 or A- in Chem 421, Concurrently taking or have passed Algebra 2, or with Department Head approval.

Advanced Placement Biology is designed for extremely competent science students planning to pursue a career in a biologically related field or to earn college level science credit while in high school. Twelve mandatory labs plus other supplemental lab experiences play an integral part in the success of the student. Course topics include cellular chemistry and functions, DNA, genetics, evolution, and ecology Students will be expected to collaborate in groups, give oral presentations based on independent research and complete comprehensive lab reports. Students enrolled in this course are required to take the AP exam in May. Students are required to complete a summer assignment in preparation for this course.

CHEMISTRY COURSE OFFERINGS:

420 Chemistry Honors
4 Credits/Full Year
*Prerequisite: B- or better in Compacted Math or A- in Common Core Math in grade 8. If in Algebra 1 at MHS (211) must have an A- in Biology 410 or A- in Biology 411 or with Dept. Head approval *students not in Algebra 2 (231, 232) may need to seek added math support.*

This course is for students with strong academic skills. The course is fast-paced, rigorous, and requires consistent effort and work to achieve the highest level. This course involves an extensive laboratory program that is closely integrated with Massachusetts state standards. A variety of topics will be covered in this course, including: Structure of matter, Reactions and Interactions, States of matter, solutions and equilibrium, Acids and bases and Energy. This fast-paced, in-depth course is presented at the honors level of difficulty. Students are expected to work semi-independently in fulfilling the requirements of this course.

421 Chemistry - Level 1
4 Credits/Full Year
*Prerequisite: A- in Algebra 212, B- in Algebra 1 211 or C- in Geometry 220 and C- in Biology 411 or B- in Biology 412, or with Department Head approva*l

Students who are recommended for this course will build on a strong foundation of content and skills. This is a comprehensive and academically challenging Chemistry course which covers topics in sufficient depth to prepare a student for a competitive Science program at the accelerated college prep level. This course

involves an extensive laboratory program that integrated with Massachusetts state standards. A variety of topics will be covered in this course, including: Structure of matter, Reactions and Interactions, States of matter, solutions and equilibrium, Acids and bases and Energy. It is expected that students gradually develop more independence and take more initiative in their own learning as the year progresses.

422 Chemistry - Level 2
4 Credits/Full Year
Prerequisite: C- in Algebra 1 and C- in Biology 412 AND concurrently enrolled in Geometry.

Chemistry 422 is designed for those students who will go on to college but may not major in science or an affiliated field. A variety of topics will be covered in this course, including: Structure of matter, Reactions and Interactions, States of matter, solutions and equilibrium, Acids and bases and Energy. Students will gain more understanding of the content and lab skills as they move through this program

425 AP Chemistry
4 Credits/Full Year
Prerequisite: B- in Chemistry 420 or A- in Chemistry 421 and B- in Algebra 2, 230 or A- in 231

This is a second year course in chemistry designed for students who wish to continue their study of the subject at a more advanced level. Students who are recommended for this level will build upon a strong foundation of content and skills. In this course, emphasis is placed on the student's ability to solve complex, multifaceted problems using various resources. Small group work and team cooperation will be inherent in most assignments. Additionally, a significant laboratory program will allow students to collect and analyze experimental data as it applies to current topics of study. Laboratory skills, including the computer analysis of data, will be expanded beyond the level of the first year course in chemistry. Students enrolled in this class are required to take the AP exam in May.

PHYSICS COURSE OFFERINGS:

430 Physics Honors
Grades 11-12
4 Credits/Full Year
Prerequisite: B- in Algebra 2 230 or A- in Algebra 2 231 and C in Geometry, 220/221 AND concurrently enrolled in Pre-Calculus, 240/241

Honors Physics is for students who have strong academic skills. This course is fast-paced, rigorous, and requires consistent effort and work to achieve the highest level. The topics covered in the course are Motion and Stability: Forces and interactions, Energy, waves, and Matter and its interactions (radioactive decay. Students are expected to synthesize and analyze content with teacher-directed support. Students are expected to balance both short-term and long-term assignments. This course is taught to prepare students for the Advanced Placement level course and should be chosen by those top-level college bound students who intend to major in physical science, engineering, or mathematics in college. Honors Physics emphasizes the development of an understanding of the physical relationships and theories concerning the natural world. This is accomplished through independent student laboratory work and problem solving which involves logical reasoning based on quantitative experimental evidence.

431 Physics - Level 1
Grades 11-12

4 Credits/Full Year
Prerequisite: B- in Algebra 1 211, successful completion of Geometry 220 or C- in Geometry 221 and concurrently enrolled in Algebra 2 231

Students who are recommended for this course will build on a strong foundation of content and skills. The topics covered in the course are Motion and Stability: Forces and interactions, Energy, waves, and Matter and its interactions (radioactive decay). This course will provide a strong subject background in physics and should help students develop a good knowledge base and work/study habits for future study in college. Outside class work is designed to reinforce content and skills learned in class. This course is appropriate for those students with a generally strong background in mathematics, and a sincere interest in the physical sciences. It is expected that students gradually develop more independence and take more initiative in their own learning as the year progresses.

432 Physics - Level 2
Grades 11-12
4 Credits/Full Year
Prerequisite: C- in Algebra 1 212 and C- in Geometry 222 and concurrently enrolled in Algebra 2 232

In this introductory course in general physics, a conceptually oriented approach involving lectures with demonstrations, experiments, student laboratory activities, and visual media will be used in presenting the following major topics : Motion and Stability: Forces and interactions, Energy, waves, and Matter and its interactions (radioactive decay). Students should be comfortable with mathematics as it is used as a tool for problem solving. This course would be appropriate for any junior or senior who desires a broad, but general knowledge of classical physics.

435 AP Physics C: Mechanics
Grades 12
4 Credits/Full Year
Prerequisites: B- in Physics 430 or A- in Physics 431 and concurrently enrolled in Calculus, 251

This course will provide students the opportunity to continue the study of physics. Students who are recommended for courses at this level will build upon a strong foundation of content and skills. This course will develop students' skills through rigorous exposure to physics using both an experimentally oriented approach and mathematically intensive problem solving. AP Physics C emphasizes the development of an understanding of the physical relationships and theories concerning the natural world. This is accomplished through independent student laboratory work and problem solving which involves logical reasoning based on quantitative experimental evidence. Students need to balance short-term and long-term projects outside of the classroom to demonstrate their understanding of concepts presented. Students are required to take the AP Physics C:Mechanics Exam in May.

SCIENCE ELECTIVE OFFERINGS:

440 Anatomy & Physiology Honors
4 Credits/Full Year
Grades 11-12
Prerequisite: B- in Biology 410 or A- in 411 and B- in Chemistry 420 or A- in 421

This is an advanced course in the study of Human Biology intended for students interested in allied health science, medicine, psychology and research in the biology of man. This course is for students with strong academic skills. The course is fast-paced, rigorous, and requires consistent effort and work to achieve the highest level. This course will include the molecular, cellular, histological & systemic aspects of the human body. Since the functional aspects of the body can be reduced to the molecular level, biochemistry will be a major underlying theme. Students selecting this course are expected to have a strong background in chemistry and biology and be highly self-motivated. Each section includes clinical considerations and practical application of the knowledge through lecture, augmented by timely related articles and visual media. Laboratory activities and dissections of selected specimens are designed to allow students to explore the major systems and their structures.

441 Anatomy and Physiology - Level 1
4 Credits/Full Year
Grades 11-12
Prerequisite: Successful completion of Biology 410 or C- in Biology 411 or B- in Biology 412 and successful completion of Chemistry 420, C- in Chemistry 421 or B- in Chemistry 422

Students who are recommended for courses at this level will build on a strong foundation of content and skills. This is a college preparatory course designed for those students considering the Allied Health Sciences such as nursing, laboratory science, sports medicine and physical therapy etc. The course provides a comprehensive and in-depth understanding of human biology. Topics covered include cellular physiology, embryology, and comparative anatomy and physiology. Each section includes clinical considerations and practical application of the knowledge through lecture, augmented by timely related articles and visual media. Laboratory activities and dissections of selected specimens are designed to allow students to explore the major systems and their structures. Students will develop the organization needed to balance both short-term and long-term assignments throughout these courses.

442 Anatomy and Physiology - Level 2
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Biology 411 or 412

This course is a comprehensive study of the structure and function in the Human Body, the topics covered include cellular physiology, embryology, and comparative anatomy and physiology. Lecture, laboratory activities with dissections, as well as various visual media resources are used to present and reinforce facts and concepts. Students are expected to synthesize and analyze content with active teacher-directed support.

451 Environmental Science - Level 1
4 Credits/Full Year
Grades 11-12
Prerequisite: Successful completion of Biology 410 or C- in Biology 411 and successful completion of Chemistry 420 or a C- Chemistry 421

Students who are recommended for courses at this level will build on a strong foundation of content and skills. Students will explore specific concepts of what natural ecosystems are and how they function. The major Biomes of the world will be examined with respect to climate, plant and animal populations and their interrelationships. Topics will include general topics in ecology, watershed issues, population pressures, global warming, habitat destruction and alteration, invasive species, land use issues and species

extinction. Students should expect frequent laboratory presentations and some outdoor field work. Analyzing stills are very important in this course. Students will need to balance both short-term and long-term assignments throughout this course.

452 Environmental Science - Level 2
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Biology 412

This course examines specific concepts of what natural ecosystems are and how they function. The major Biomes of the world will be examined with respect to climate, plant and animal populations and their interrelationships. Topics will include general topics in ecology, watershed issues, population pressures, global warming, habitat destruction and alteration, invasive species, land use issues and species extinction. Students should expect frequent laboratory presentations. Students are expected to synthesize and analyze content with active teacher-directed support.

455 AP Environmental Science
4 Credits/Full Year
Grades 11-12
Prerequisite: *C- Biology 410, or B- in Biology 411; C- Chemistry 420 or B- 421 and passed or concurrently enrolled in Algebra 2*

Students who are recommended for courses at this level will build upon a strong foundation of content and skills. The goal of this course is to provide students with scientific principles, concepts and methodologies required to understand the interrelationships of the natural world. Students will develop skills to utilize technology to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. This course relates to both biology and chemistry, and to social sciences which promote clarity in how ecological realities relate and interact with society. This course promotes the development of citizens who could make informed, knowledgeable decisions concerning environmental issues. Topics include natural history, energy efficiency, alternative energy, ecosystems, wildlife conservation, diversity, population growth, water issues, climate change and wilderness. Laboratory and some outdoor field work will be required. Presentations and research papers will be assigned. Students enrolled in this class are required to take the AP exam in May.

461 Marine Science- Level 1
4 Credits/Full Year
Grades 11-12
Prerequisite: Successful completion of Biology 410, C-in Biology 411 or B- in Biology 412

This course in Marine Biology is designed for the accelerated college prep student with a strong background in science. The course of study will focus on a variety of topics including physical and chemical oceanography, marine biology, ecology, and man's use of the oceans and coastal zone. The topics will be covered with more emphasis on the chemical, biological and physical aspect of the marine environment. One of the primary goals of the course is to provide an appreciation and awareness of local marine ecosystems through investigative laboratory exercises and dissections.

462 Marine Science - Level 2

4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Biology 412

Since nearly three-fourths of the earth is covered with ocean, and the Town of Marshfield is part of the coastal zone, it is important that we understand the nature of the marine environment. This course will focus attention on a variety of topics including aspects of biological, geological, physical and chemical oceanography. The result is a comprehensive survey of the entire marine environment. Representative laboratory exercises strive to familiarize students with local flora and fauna, through investigative laboratory exercises and dissections. It is intended for the standard college prep student with serious career ambitions in the marine sciences, as well as those who have a sincere desire to learn more about the seas and ocean life.

472 Forensic Science - Level 2
4 Credits/Full Year
Grades 11-12
Prerequisite: Successful completion of Biology 412

Forensic Science focuses on problem solving, allowing students to demonstrate understanding and apply skills learned in previous science classes by examining the evidence left behind at a hypothetical crime scene. By using a variety of tests and instrumentations, which will involve qualitative observations based on both physical and chemical properties of the body of evidence, students will make findings and "solve" hypothetical crimes. Topics which may be included in crime scene investigations are blood type analysis, organic and inorganic evidence analysis, microscopic investigations, hair analysis, DNA gel electrophoresis (DNA fingerprinting), forensic psychology, drug chemistry and toxicology, fiber comparisons, fingerprints, soil comparisons, and the law that governs the collection and use of evidence.

473 Astronomy - Level 2
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Biology 412

In Astronomy, students will learn how the motion of the earth and moon affect your everyday life, about the planets in our solar system, and how we have gathered information about them. The class will discuss the history of astronomy, from ancient times to today. The course will include information about tools that astronomers use to figure out what stars are made out of, how far away they are, and about their entire life cycle. Lastly, the class will look at the nature and structure of the universe, as well as how astronomers think it began. There is material from Algebra I and some Trigonometry incorporated into this course, but all math concepts will be refreshed through content.

THEATER ARTS DEPARTMENT

GRADE 9 & UP	GRADES 10, 11, 12	GRADE 11 & 12
156 Introduction to Theater	**157 Theater I** **158 Theater II**	**160 Advanced Theater Projects Honors**

The English Department provides a survey approach to all three elements of theater: acting, directing/producing and technical theater. Students may move sequentially through a potential four year program which will examine the literature, art and history of the discipline offering opportunities of performance and practical experience. Theater arts also offers a number of interdisciplinary opportunities with other academic departments as students may better comprehend the many facets of theater.

156 Introduction to Theater - Unleveled
4 Credits/Full Year
Grades 9-12
Prerequisite: None

Introduction to Theater is a survey course which explores the three disciplines of theater arts: Acting, Directing and Technical Theater. Students will develop acting skills through solo performance, ensemble work and script analysis of both classic and modern plays. Students will examine scripts from the director's point of view through projects, models, and presentations to better understand the artistic vision necessary to create a production. Students will follow the design process of a production through construction in the six major technical theater fields: Set costumes, Properties, Lights, Sound, and Makeup. They will develop their own designs and execute them for each discipline.

Course Outline

Acting I: Movement, pantomime
Directing I: Role of director, producer, production team & space
Technical Theater I: Set, lighting and sound Technical
Acting II: The characterization process
Directing II: Working with the script
Theater II: Props, costumes and makeup

157 Theater I - Level 1
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Introduction to Theater 156 or teacher recommendation

The purpose of the course is to give students a more in-depth look into the art and history of theater. This course concentrates on the development of imagination, observation, focus of attention, and the effective use of materials drawn from life experience. Students will explore nonverbal communication through movement & body language; explore posture and breathing exercises, as well as how to use the diaphragm, projection, and articulation; analyze the history, characters, and style of Commedia dell'arte; demonstrate the responsibilities and the necessary skills of a stage manager; explore basic drafting and rendering techniques used in design; explore the ideas of "objective," "obstacle," "stakes," and "tactics." as they apply

to performance; and explore the structural elements of a play: character, exposition, climax, resolution, while raising the stakes in their own original compositions. Each unit will culminate in a performance or project which allows the student to demonstrate their understanding of each topic. In the fourth quarter, they will be producing their final project which will incorporate multiple areas that students have studied over the course of the year. They'll take what they've learned and create a 5-minute play with a monologue that they'll perform. They'll also describe the overall design of the show and create a ground plan and rendering for their design.

Course Outline

Stage Movement Voice	Improvisation & Scenic Design	
Script Analysis for the Actor & Technician	Stage Management	Commedia Dell'Arte & Playwriting

158 Theater II - Level 1
4 Credits/Full Year
Grades 10-12
Prerequisite: Successful completion of Introduction to Theater 156 (Theater I 157 recommended but not required)

This course further examines modern techniques used in contemporary theater both on the stage and behind the scenes. The students will explore what goes into choosing and performing an appropriate audition monologue for an audition, learn how technology is used in the six disciplines of technical theater, explore physical movement and expand an actor's physical range by a variety of acting strategies such as Laban, Meisner Technique, and Viewpoints, and study the of musical theater.

Course Outline

Auditioning and Performing Monologues	Blocking and Devising Staging through Movement
Advanced Scenic Design Techniques	Lighting, Sound, Costume and Makeup Design
Advanced Character Development	Musical Theater

160 Advanced Theater Projects Honors
4 Credits/Full Year
Grades 11-12
Prerequisite: Successful completion of Theater II 158, & Instructor Approval

Advanced Theater Projects is the ultimate in project-based learning. In this honors level course, students learn to work collaboratively while setting goals and working towards a successful finished project. The course includes exercises and strategies to help assure student success in the production. The students will work together, using their individual strengths to create, plan, rehearse, tech, and produce two class projects: one 15-minute and one 30-minute to be performed for the public. They will also be expected to regularly contribute to the Drama Club productions in order to hone skills for their own project.

Course Outline
Independent study
Project-based learning

VISUAL ARTS DEPARTMENT

Art lets us express ourselves, explore our place in the world and conveys powerful messages. The art department strives to teach you how to observe, appreciate and interpret all you see around you. All art courses focus on hands-on learning and incorporating your own interests and ideas as much as possible.

Students of all artistic abilities are welcome to sign up for art classes. If you are a beginning artist or looking to try something new please join us! First year art students are required to take our foundation classes: Drawing & Painting Studio I and Sculpture Studio I where you work with a variety of materials and are introduced to the elements and principles of art and design. This will also meet the prerequisite for Digital Photography and Alternative Methods.

Any students interested in pursuing visual arts after high school are encouraged to sign up for art classes as early as possible. Future careers may include working in the field of fine arts, graphic arts, architecture, design, advertising, animation, video/film and photography. We can help you build a portfolio to get you where you want to be.

All art courses are sequential and build upon skills and materials learned the previous year. The goal is to make students comfortable with increasingly more difficult projects over their years in the art department.

GRADE 9 & UP	GRADES 10, 11, 12	GRADE 11, 12	GRADE 12
826 Drawing & Painting Studio I 836 Sculpture Studio 1	826 Drawing & Painting Studio I 836 Sculpture Studio I 827 Drawing & Painting Studio II 837 Sculpture Studio II 840 Exploring Digital Photography 841 Careers in Photography 834 Comics & Illustration	826 Drawing & Painting Studio I 827 Drawing & Painting Studio II 828 Drawing & Painting Studio III 836 Sculpture Studio I 837 Sculpture Studio II 838 Sculpture Studio III 840 Exploring Digital Photography 841 Careers in Photography 834 Comics & Illustration	826 Drawing & Painting Studio I 827 Drawing & Painting Studio II 828 Drawing & Painting Studio III 829 Drawing & Painting IV Studio 825 AP Drawing 836 Sculpture Studio I 837 Sculpture Studio II 838 Sculpture Studio III 839 Sculpture Studio IV 835 AP 3-D Art & Design 840 Exploring Digital Photography 841 Careers in Photography 833 AP 2-D Art & Design 834 Comics & Illustration

VISUAL ART COURSE OFFERINGS:

826 Drawing & Painting Studio I - Unleveled
2 Credits/Semester
Grades: 9-12
Prerequisite: None

In this course you will explore drawing and painting through hands-on projects; pastel landscapes, pencil portraits, Impressionist paintings, and more. Art making is a great way to destress from your busy academic schedule and be creative. You need no prior art experience, just a willingness to learn and have fun.

836 Sculpture Studio I - Unleveled
2 Credits/Semester
Grades 9-12
Prerequisite: None

Sculpture 1 is a hands-on project based course. You will learn to work with new materials like clay, wire, cardboard, and plaster. You will make both sculptural and functional works, how does your very own hand-crafted coffee mug sound? No prior sculpture experience is needed, just be creative and maybe get a little messy.

840 Exploring Digital Photography - Unleveled
2 Credits/Semester
Grades: 10-12
Prerequisite: None

This course focuses on the creative and technical aspect of digital photography. Students will explore the creative potential of photography while learning basic camera function.Through a series of hands-on assignments students will learn composition and lighting skills. Students have full access to the Adobe Suite editing tools and software. Find out the limitations of an iPhone and improve image quality especially in low light situations. Students will complete a creative portfolio by the end of the semester
Note: Digital SLR Camera is available to borrow.

827 Drawing & Painting Studio II - Level 1
4 Credits/Full Year
Grades: 10-12
Prerequisite: Successful completion of Drawing & Painting Studio I 826

Want to further your skills in Drawing and Painting? This course builds on the materials, skills, and techniques of Drawing and Painting 1. You will work with new materials like charcoal, watercolor, printmaking, and mixed media to create artworks that begin to tell your story. This is a great course if you want to begin building a portfolio of work or just enjoy creating art for fun.

837 Sculpture Studio II - Level 1
4 Credits/Full Year
Grades: 10-12
Prerequisite: Successful completion of Studio I 836

Couldn't get enough of Sculpture 1? This course will build on the materials and techniques of Sculpture 1 and introduce you to even more great sculptural methods. Learn how to use the wheel, sculpt with clay, carve plaster, create an assemblage piece, and more. This is a great course to begin building a portfolio or just have fun creating art and getting messy.

841 Careers in Photography - Unleveled
2 Credits/Semester
Grades: 10-12
Prerequisite: None

This course introduces students to the exciting world of digital photography as a career. Students will explore various fields, including portrait photography, sports photography, food and product photography and photojournalism. They will learn technical skills such as camera operation, lighting techniques, Adobe Suite editing techniques and software, and composition skills which will culminate in a portfolio of finished pieces. **Note: Digital SLR Camera is available to borrow.**

834 Comics & Illustration - Unleveled
2 Credits/Semester
Grades: 10-12
Prerequisite: None

Unleash your creativity in this dynamic Comics and Illustration course! Learn the art of storytelling through visual narratives creating projects such as album art, mini comics, zines, illustrated stories and more. Whether you dream of being a graphic novelist or just love to draw, this class will help you craft compelling visuals that communicate your ideas and imagination.

828 Drawing & Painting Studio III - Level 1
4 Credits/Full Year
Grades: 11-12
Prerequisite: Successful completion of Drawing & Painting Studio II 827

A full year art class that builds on skills and materials learned in Drawing and Painting 2. Are you possibly thinking of art school, or majoring in some kind of design or architecture? This class will help you prepare many portfolio pieces, yet is also appropriate for the student just looking to have a creative class during the day. New materials such as acrylic paint, ink wash, and advanced mixed media will be explored. Join us to explore your own artistic style and learn some new techniques!

838 Sculpture Studio III - Level 1
4 Credits/Full Year
Grades: 11-12
Prerequisite: Successful completion of Sculpture Studio II 837

This course will build upon skills students learned last year. Both earthenware and stoneware clay will be used in addition to wire, plaster, and recycled materials. Students will explore both historical and contemporary sculptural and functional 3-D artworks as they continue to refine their knowledge of craftsmanship and visual communication skills. Students will start to expand and improve upon their personal styles.

829 Drawing & Painting Studio IV - Level 1
4 Credits/Full Year
Grade: 12
Prerequisite: Successful completion of Drawing & Painting Studio III 828

Students in this course will work with advanced drawing, painting, printmaking and mixed media techniques. Students will experiment with new concepts while exploring their own artistic style. Many assignments will be open ended, encouraging creativity and artistic problem solving. This class is for the student applying to

art school *or* anyone looking to have a creative hands-on block in their day. There will be critiques and written reflections during class, but many days will be hands-on workshop style classes.

839 Sculpture Studio IV - Level 1
4 Credits/Full Year/Full Year
Grade: 12
Prerequisite: Successful completion of Sculpture Studio III 838

Sculpture Studio IV is a full year course designed to challenge students' abilities through advanced problem-solving projects. Students are expected to be self-motivated learners as they expand their individual understanding and enjoyment of 3-D art. Students will build on their visual communication skills to create artworks appropriate for inclusion in a college portfolio. Students will participate in the photography and presentation of their work. Students will expand and improve upon their personal styles. Homework and/or out of class work time may be required. Students will be expected to maintain a sketchbook to plan for projects before beginning and to complete written reflections upon completion. In class group and peer critiques will be used.

AP STUDIO ART OFFERINGS:

825 AP Drawing
4 Credits/Full Year
Grades 12
Prerequisite: Successful completion of Drawing & Painting Studio 1 826

In this class students will explore advanced drawing, painting, printmaking and 2-D mixed media techniques equivalent to an introductory college art course. AP students will create their own "sustained investigation" of art materials and/or subjects that are meaningful to them on top of class assignments. There are writing assignments relating to student works, such as describing your processes, concepts and materials. Homework is assigned and a sketchbook will be made in class for weekly usage. Students will submit an AP art portfolio that consists of 15 examples of their Sustained Investigation work and 5 Selected Works. Depending on a student's artwork they will choose to submit an AP Drawing portfolio that focuses on drawing skills and mark-making OR an AP 2-D Design portfolio that focuses on composition and principles of design. **Note: You must submit a portfolio for the AP exam when taking this class.**

833 AP 2-D Art & Design *(Photography)*
4 Credits/Full Year
Grades 12
Prerequisite: Successful completion of Digital Photography & Alternative Methods 846

The AP Photography course is designed for a senior that wants to create a portfolio of work with a camera to express their own artist style. The AP Photography class reviews the manual camera and how to use its setting effectively. The projects and assignments will help develop the skills to recognize and develop aesthetic imagery with any camera. The class will dive deeper into the Adobe suite software, crossing from photoshop to Lightroom. Depending on the portfolio, students can combine Adobe Illustrator, Indesign and Premier to edit their work. Students will have an opportunity to use film cameras that are loaded with medium format black and white film that can be processed in the classroom. Students will be submitting an

AP 2-D Design portfolio for this class. **Note: You must submit a portfolio for the AP exam when taking this class.**

835 AP 3-D Art & Design *(Sculpture)*
4 Credits/Full Year
Grades 12
Prerequisite: Successful completion of Sculpture Studio 1 836

AP 3-D is a full year course in 3-D design equivalent to a first year college course. You will explore, experiment, and create a vast array of 3-D artworks. Students who elect this course will prepare a digital portfolio of 3-D works to be submitted to AP Board for possible college credit. Your portfolio will include 15 process images such as sketchbook research or progress photos in addition to 5 completed and conceptual artworks. Students will explore the relationship between form and function, understand their own personal aesthetics and develop a concentration of artworks tied together with subject or material. Students should be self-motivated learners with excellent time management skills and not afraid to try new things or get a little messy. **Note: You must submit a portfolio for the AP exam when taking this class.**

WORLD LANGUAGE DEPARTMENT

Language teachers want to teach as much language as possible to as many students as possible. French and Spanish courses aim at helping the student acquire speaking, listening, reading and writing skills in these modern languages. Cultural sensitivity is a fifth skill, thus the history, art and customs of those peoples make up an important part of classroom study. Language students are grouped according to their capabilities and, when possible, may be moved during the course of the year if their progress is faster or slower than their original class placement. The MHS graduation expectation is 2 years in the same language, however many 300four-year colleges prefer 3+ years of study in the same language.

LEVELS:	AP	HONORS	ACCELERATED COLLEGE PREP LEVEL 1	COLLEGE PREP LEVEL 2
FRENCH	365 AP French V	300 French II Honors 310 French III Honors 330 French IV Honors	313 French II 321 French III 331 French IV 341 French V	312 French I 314 French II 322 French III
SPANISH	355 AP Spanish	320 Spanish II Honors 340 Spanish III Honors 350 Spanish IV Honors	326 Spanish II 336 Spanish III 346 Spanish IV 356 Spanish V	315 Pathways to Spanish 317 Spanish I 327 Spanish II 337 Spanish III 347 Spanish IV

TYPICAL SEQUENCE OF COURSES BY GRADE:					
Grade 9	312 French I	313, 314 French II	320, 326, 327 Spanish II	317 Spanish I	315 Pathways
Grade 10	313, 314 French II	321, 322 French III	Spanish III 336, 337	326, 327 Spanish II	317 Spanish I
Grade 11	321, 322 French III	330, 331 French IV	350, 346, 347 Spanish IV	336, 337 Spanish III	327 Spanish II
Grade 12	330, 331 French IV	341, 365 French V	355, 356 Spanish V	346, 347 Spanish IV	336, 337 Spanish III
* Students must attain an A along with their teacher's recommendation to begin honors courses and a B to continue.					

FRENCH OFFERINGS

312 French I - Level 2
4 Credits/Full Year
Prerequisite: None

In this novice course students will learn to speak and understand simple sentences, read short passages and write short passages in French. The course will focus on developing strong speaking and listening comprehension skills. Cultural content will emphasize the daily life and customs of French-speakers, especially teens.

Course Outline French 1 - Level

Greetings	Family and pets	Clothing and accessories
Likes and dislikes	School subjects	Household chores
Leisure activities	Calendar and weather	House and furniture
Numbers	School supplies and colors	Places in a city
Classroom objects	Sports and activities	Means of transportation
Physical descriptions	Breakfast foods and café	Travel

Course Outline French II Levels - Honors, Level 1 & Level 2

Describing friends and family	Country life	Computer terms
Morning routine	Fruits, vegetables and cooking	Improving one's health
After-school activities	Camping	Nature and animals
Daily routine	Food shopping	
Celebrations	School places and events	
Party Preparations	Parts of the body; injuries & illnesses	

313 French II - Level 1
4 Credits/Full Year
Prerequisite: Successful completion of French 1 311 and teacher recommendation

In this Novice-High course, a continuation of French I, 311, the student will strengthen his/her skills in speaking and understanding spoken French. Vocabulary and language structure will be further developed through simple written compositions, short readings and oral presentations in French and participation in the target language during class discussions.

314 French II - Level 2
4 Credits/Full Year
Prerequisite: Successful completion of 312 and teacher recommendation

In this course, a continuation of French I, 312, attention is given to further development of basic skills (speaking, listening, reading, and writing). Vocabulary and language structures will be developed through short readings and dialogues, compositions, class presentations and class discussions

Course Outline French III - Honors, Level 1 & Level 2

Back to school activities	Professions and services	Legends, fairy tales, and fables
Exploring the media	Society and government	Exploring nature and the outdoors
After-school activities	Telephone and formal writing	Expressing life events and emotions
Environmental issues and solutions	Exploration of the art world	

310 French III Honors
4 Credits/Full Year
Prerequisite: B in French II 300

In this accelerated intermediate course, a continuation of French II, 300, the student will be expected to use his/her knowledge of language structure and vocabulary to participate in class discussions. This course

emphasizes a strong development of conversational, reading and writing skills. Students in the honors level will be expected to ***always*** communicate in the target language during instructional time. Additional (beyond L1 assignments) reading, writing, speaking and listening activities will also be required.

321 French III - Level 1
4 Credits/Full Year
Prerequisite: C in French II 313

In this intermediate course, a continuation of French II, 313, the student will be expected to use his/her knowledge of language structure and vocabulary to participate in class discussions. This course emphasizes a strong development of conversational, reading and writing skills. Further expansion of base vocabulary will be expected.

322 French III - Level 2
4 Credits/Full Year
Prerequisite: C in French II 314

A continuation of French II, 314, this intermediate course progresses at a moderate pace. Along with the ongoing review of previous language learning, the goal will be to expand the student's ability to understand and use spoken French. Guided writing exercises will stress organization of ideas and opinions as well as language structure accuracy.

Course Outline French IV - Honors, Level 1 & Level 2

Personal relationships
Personality
Feelings
In town (Activities, Places, People)
Science
Influence of media
Family
Food
Stages in life
Progress and Research Technology
Leisure Time
Arts and Theater
Shopping and clothes
Sports

330 French IV Honors
4 Credits/Full Year
Prerequisite: B in French III 300 and teacher recommendation

This honors level class is intended for students who have shown above average ability in French. This course will provide a wide variety of challenging experiences in speaking, listening, reading and writing. More complex language expressions will be presented and practiced. Topics include: France today (youth, sports, government, and economy), 19th and 20th century society and literature, and contemporary writings. Magazines, short stories and cultural readers are used and students are expected to work on individual and group projects in both written and spoken forms.

331 French IV - Level 1
4 Credits/Full Year
Prerequisite: C in French III, 321 or B in French III, 322

This course is a continuation of French III, 321 or 322. It is intended to meet the needs of the students who have completed a study of basic French language structure and civilization, and who have a firm, if limited, ability to speak, read and write in French. This course aims at advanced level learning topics and skills during the second half of the course. Various areas are studied such as: France today (youth, education, sports,

and music), geography, the national economy and selected moments in history, literature, art, and music of France during the 19th century.

341 French V - Level 1
4 Credits/Full Year
Prerequisite: C in French IV, 331 or 330

This course is a continuation of French IV, intended for those students who wish to do advanced studies in French, though not at the Honors level. Students will focus on current French social questions, a survey of twentieth century artistic trends, and selected literary and historical movements, though less than in the Honors course. The course aims at the continued development of advanced skills for reading and listening comprehension, and intermediate-high skills for oral and written expression. Individual and group oral and written presentations are expected.

Course Outline - Level 1

Artist as career choice	French education system: university level and non-college
French social classes and economic issues	Historical and social topics: the early and mid-twentieth century
French cinema	Literary analysis: selections from early and mid-twentieth century
French career paths and job ads	Survey of modern French artists and styles: 1890-1960
The French-speaking world today	Comparisons and contrasts: France and the U.S.

365 AP French V
4 Credits/Full Year
Prerequisite: B in French IV, 330 and teacher recommendation

The AP French V Language and Culture course emphasizes communication (understanding and being understood by others) by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP French Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions*). All students are required to take the AP French Language Examination*. Some summer work may be required.

SPANISH OFFERINGS

315 Pathways to Spanish - Level 2
4 Credits/Full Year
Prerequisite: Teacher recommendation only

In this novice course, students will learn to speak and understand simple sentences, read short passages and write short passages in Spanish. The course will focus on developing strong speaking and listening comprehension skills. Cultural content will emphasize the daily life and customs of Spanish speakers, especially teens. Spanish Pathways is intended for the Level 2 student with no past experience in Spanish or by teacher recommendation.

Course Outline Level - 2

Greetings, introductions,	Likes and dislikes,	Talking about school
Origin, nationality	Sports and activities	Foods
Numbers, dates, time, weather	Describing yourself and others	

317 Spanish I - Level 2

4 Credits/Full Year

Prerequisite: None

In this novice course, students will learn to speak and understand simple sentences, read short passages and write short passages in Spanish. The course will focus on developing strong speaking and listening comprehension skills.

Cultural content will emphasize the daily life and customs of Spanish speakers, especially teens.

Course Outline Level - 2

Greetings, introductions,	Likes and dislikes,	Talking about school
Origin, nationality	Sports and activities	Foods, free time, daily activities
Numbers, dates, time, weather	Describing yourself and others	Making plans
		Expressing actions
Introducing and describing family,	Asking for information	Expressing desires and preferences
Friends	Naming and describing	

Course Outline Spanish III - Honors, Level 1 & Level 2

My friends and I	Being healthy	Our future
Movies	Family	Food
New places	Shopping	
	Old cultures & modern cities	

320 Spanish II Honors

4 Credits/Full Year

Prerequisite: Successful completion of grade 8 Spanish and teacher recommendation

**Students will be placed in the honors level based on their term 1 performance in Spanish II by their high school instructor.*

Accelerated Novice-High course, the student will strengthen his/her skills in speaking and understanding spoken Spanish; vocabulary and language structures will be further developed through multiple written compositions, short readings and oral presentations in Spanish during class discussions. Students in the honors level will be expected to ***always*** communicate in the target language during instructional time. Additional (beyond L1 assignments) reading, writing, speaking and listening activities will also be required.

326 Spanish II - Level 1

4 Credits/Full Year

Prerequisite: Successful completion of grade 8 Spanish and teacher recommendation

In this Novice-High course, the student will strengthen his/her skills in speaking and understanding spoken Spanish; vocabulary and language structures will be further developed through simple written compositions, short readings and oral presentations in Spanish during class discussions.

327 Spanish II - Level 2

4 Credits/Full Year
Prerequisite: Successful completion of grade 8 Spanish or Spanish I 317 and teacher recommendation

In this course attention is given to the further development of basic skills (speaking, listening, reading and writing). Vocabulary and language structures will be developed through short readings and dialogs, compositions, class presentations and class discussions.

Course Outline Spanish III - Honors, Level 1 & Level 2

Daily Life and routines
Personal Description
Outdoor Life & Leisure Activities
Volunteer Activities
Media
The Future of our Planet
Professions
Travel

340 Spanish III Honors
4 Credits/Full Year
Prerequisite: B in Spanish II 320 and teacher recommendation

In this accelerated intermediate course, a continuation of Spanish II, 320, the student will be expected to use his/her knowledge of language structure and vocabulary to participate in class discussions. This course emphasizes a strong development of conversational, reading and writing skills. Students in the honors level will be expected to ***always*** communicate in the target language during instructional time. Additional (beyond L1 assignments) reading, writing, speaking and listening activities will also be required

336 Spanish III - Level 1
4 Credits/Full Year
Prerequisite: C in Spanish II 326 and teacher recommendation

In this intermediate course, a continuation of Spanish II, 326, the student will be expected to use his/her knowledge of language structure and vocabulary to participate in class discussions. This course emphasizes a strong development of conversational, reading and writing skills. Further expansion of base vocabulary will be expected.

337 Spanish III- Level 2
4 Credits/Full Year
Prerequisite: Successful completion in Spanish II 327 or 326 and teacher recommendation

A continuation of Spanish II, 327, this intermediate course progresses at a moderate pace. Along with the ongoing review of previous language learning, the goal will be to expand the student's ability to understand and use spoken Spanish. Guided writing exercises will stress organization of ideas and opinions as well as language structure accuracy.

Course Outline Spanish IV - Honors, Level 1 & Level 2

Comparing people and things
Familiar issues (foods, shopping, clothes, chores)
Cultural topics: life, social issues, the arts, literature
Medical situations
Travel (vacations, hotels, directions)

350 Spanish IV Honors
4 Credits/Full Year
Prerequisite: B in Spanish III 340 and teacher recommendation

This Advanced Placement level course, a continuation of Spanish III, 336, is intended for students who have shown above average talent and interest in Spanish. The course will provide a wide variety of challenging experiences targeting all skills: reading, listening, speaking, and writing. More complex language expressions will be presented and practiced. Students will be expected to work on oral and written presentations in significant depth, both individually and in groups. A core text containing short works in literature, South American life social issues, current events, the arts and literature will be utilized.

346 Spanish IV - **Level 1**
4 Credits/Full Year
Prerequisite: C in Spanish III 336 and teacher recommendation

This course is a continuation of Spanish III level I. It is designed to meet the needs of students who have successfully completed a study of basic Spanish civilization and language structure. This course will aim to strengthen intermediate language skills during the first semester and develop more advanced level skills during the second semester. Students will be expected to create both oral and written presentations, individually and in groups. A core text containing short works in literature, cultural readings and language structure will be a primary resource. Topics to be covered will focus on Latin and South American countries, their culture and social issues, but more limited in depth than in the Honors course.

347 Spanish IV - **Level 2**
4 Credits/Full Year
Prerequisite: Successful completion in Spanish III 337 and teacher recommendation

This course is a continuation of Spanish III level II. It is designed to meet the needs of students who have successfully completed a study of basic Hispanic Culture and language structure. This course will aim to strengthen intermediate language skills. Students will be expected to create both oral and written presentations, individually and in groups. A core text containing short works in literature, cultural readings and language structure will be a primary resource. Topics to be covered will focus on Latin and South American countries, their culture and social issues, but more limited in depth than in the level 1 course.

355 AP Spanish V
4 Credits/Full Year
Prerequisite: B or better in Spanish IV Pre-AP 350 and teacher recommendation

The AP Spanish V Language and Culture course emphasizes communication by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP

Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). *All students are required to take the AP Spanish Language Examination*. Some summer work may be required.

356 Spanish V - Level 1

4 Credits/Full Year
Prerequisite: C in Spanish IV Honors 350 or Spanish IV 346

This course is a continuation of Spanish IV intended for those students who wish to do advanced studies in Spanish, though not at the Honors level. It aims at the continued development of advanced skills for reading and intermediate - high skills for listening comprehension as well as oral and written presentations. The course explores Spanish language and culture through documentary film. Topics included will focus on the environment, sports, globalization, poverty/hopes/dreams, immigration, and human rights. Selections of literary readings, historical and social background readings, and contemporary works will be used. Materials appropriate for continued work on accurate language structure will be included to support discussion and expression related to these advanced topics.

Course Outline Level 1

Environmental issues & Ecotourism
Immigration
Cultural & Political Issues
Subjunctive mood: expressing opinion or feelings
Future vs. Conditional tenses
Latin American Literature - Poetry and short stories
Geography and regionalism
Vocabulary related to chapter theme & Film
A contemporary song related to chapter theme
An overview of past tenses in Spanish
The Imperative tense
Dictatorship in Argentina
Music and Art
Migrant workers & Child Labor in Latin America

SPECIAL EDUCATION SERVICES

Scheduling of these courses/programs must happen through the Special Education TEAM process as part of a student's Individualized Educational Plan (IEP). To review a specific course description, please refer to the Special Education Program Course Description Booklet located in the Special Education Office.

STRATEGIES 9/10 AND 11/12

The focus of the Strategies course is to develop post-secondary college/career readiness through the use of transitional academics (i.e., instructional learning strategy training, organizational planning, and coordination of the transition process). The long-term goals of these activities are to ensure that special individual needs are met to maximize the student's success and independence in post-secondary educational, employment and independent living experiences. An essential component of the Transition curriculum is self-awareness and self-advocacy skills relevant to a student's post-secondary goals.

Students develop:

- The necessary skills of self-advocacy
- Use of technology for research as well as for their educational process organization
- Test-taking/study skills useful for the PSAT/SAT/ACT as well as post-secondary testing
- Knowledge from extensive interests/ability inventories
- Matching the outcome of these inventories to possible career choices
- Career and college options that are researched in depth in preparation for post-secondary educational settings
- A personal portfolio of transition activities for use in their pursuit of a post-secondary educational setting
- Knowledge of individual challenges and accommodations necessary for success in post-secondary education and employment.

ADAPTIVE LEARNING PROGRAM (ALP)

The Adaptive Learning Program provides academic instruction for students who:

- Are not making effective progress in the mainstream
- Need small group instruction
- Have been diagnosed with a behavioral, social/emotional or specific learning disability

Goals of the ALP are:

- To bring about academic, behavioral and attitudinal changes through a positive classroom learning environment.
- To aid each student in making better decisions and choices
- To provide each student with the opportunity for personal growth and positive achievement, enabling the student to eventually return to the mainstream or modified special education classes.
- To encourage active participation in the program which will assist each student in becoming a self-regulated, critical and creative thinker.

The Adaptive Learning Program Classroom includes small group instruction in the core academic classes, utilizing a positive behavior modification system and integral involvement with the school adjustment counselors. Courses in all major academic areas are offered.

AUTISM SPECTRUM DISORDER CLASSROOM (ASD CLASS)

This program is designed for students with a diagnosis of autism or other neurological disorders that result in social and behavioral challenges. The goals of the program are to ensure that all students are able to access the general curriculum as well as to learn functional life skills and participate in activities and classes in a socially and age appropriate manner.

LANGUAGE BASED LEARNING PROGRAM (LBLP)

The Language Based Learning Program (LBLP) provides multimodal instruction across content areas within a small group setting. Highly qualified special and general education teachers deliver specialized, direct and explicit instruction to facilitate the development of skills across the curriculum.

The LBLP is dedicated to fostering the independence and transition of students enrolled in the program. Students are provided intense transition planning that prepares them for learning within the general education setting and for life beyond high school.

The goal of the LBLP is to provide the instructional, technological and therapeutic support necessary to meet the needs of students who struggle with language based disabilities. Students are encouraged to participate in elective, vocational, athletic and recreational opportunities within Marshfield High School.

The Language Based Learning Program is designed for students whose primary qualification for special education services is the presence of a Specific Learning Disability. Students:

- Exhibit a primary diagnosis of a LBLD which may include: dyslexia, reading disabilities, disorder of written language or expression, dyscalculia, expressive/receptive language disorder
- Exhibit a LBLD that substantially limits the student's ability to make progress within the general academic setting
- Have not met with success with supports in the general academic setting
- Have average to above average cognitive abilities

MULTI-AGE LEARNING CENTER (MALC)

The Multi-Age Learning Center serves students in grades nine through twelve with identified adaptive/social delays and significant intellectual challenges.

Goals of the Multi-Age Learning Center include:

- Development of communication/language and social skills
- Proficiency in the activities of daily living and inclusion in the community

Reading In the Multi-Age Learning Center Classroom:

- Students access the Common Core State Standards at "entry" points that are appropriate to their individual needs
- Primary focus is on functional life skills
- All curricula is modified
- Small group instruction is provided in core academic classes
- Electives are offered in the mainstream with aid support when necessary

Content area academics are offered in an individualized program.

PROVIDING OPPORTUNITIES FOR STUDENT TRANSITION PROGRAM (POST)

The POST Program enrolls students who are 18-22 years old and are challenged with moderate to severe special needs including Autism, Social/Emotional deficits and low cognitive abilities.

Goals of the Program are:

- To positively support the acquisition of functional academic and daily life skill sets.
- To collaborate with student families to support student's attainment of a fulfilling future as a productive member of the community.

The POST Program provides:

- Daily activities, lessons and learning experiences that are designed to positively engage students, enabling them to generalize their skills and knowledge thereby increasing independence.
- Practical work experiences used to target the acquisition of skills and enable students to achieve and apply their progress in the following skill sets:

Academics	Self-Advocacy
Social skills	Fine/Gross Motor Skills
Activities of daily living	Overall Health/Wellness
Community Involvement	