

Mt. Carmel High School



**201 PEAR STREET ~ MT. CARMEL, ILLINOIS 62863
TELEPHONE: 618-262-5104**

**Tabby Niduaza, MA
ACADEMIC ADVISOR**

Course Catalog

2025 - 2026

TABLE OF CONTENTS

INTRODUCTION	3
REGISTRATION PROCEDURE	3
GRADUATION REQUIREMENTS	4
COLLEGE ENTRANCE REQUIREMENTS/NCAA	5
ACADEMIC COURSES	6
VOCATIONAL COURSES	7
FRESHMAN COURSES	8
SOPHOMORE COURSES	9
JUNIOR COURSES	10
SENIOR COURSES	11
COURSE DESCRIPTIONS	13
Agriculture	13
Art	14
Business	16
Driver Education	17
English	17
Family & Consumer Sciences	18
World Language	18
Health	19
Health Occupations	19
Industrial Education/Woods	19
Mathematics	20
Music	21
Physical Education	22
Science	22
Social Studies	23
Service Learning	24
Special Education	24
Youth Apprenticeship	25
WVC Dual Credit Information	25

INTRODUCTION

GUIDANCE SERVICES

At one time or another most students want to talk with someone who is interested in them and their problems. Counseling with a social worker is one service provided to help the student understand himself or herself and their surroundings.

Whether the student goes to see the counselor or the counselor requests the student, there are two important things to keep in mind. First, feel sure that the conversation will be kept private. Secondly, the counselors are not disciplinarians.

OTHER GUIDANCE SERVICES INCLUDE:

1. Planning college and career programs, and financial aid seminars.
2. Scheduling Seniors, Juniors, Sophomores, and Freshmen.
3. Providing job placement, tutoring and referral services.
4. Organizing a College and Career Fair.
8. Enrolling all new students.
9. Completing counselor admission reports, etc.
10. Building the Master Schedule.

REGISTRATION PROCEDURE:

The Guidance Office will post an online catalog. Students should discuss the information, course descriptions, and their career and college plans with their parents and make decisions about their courses for next year. The counselor will answer specific questions and aid the student in making his/her plans and selecting courses.

How to use Course Catalog:

Courses are listed with their respective departments. The course description lists the value of the class, credits, what year the class is offered, and pre-requisites.

GRADUATION REQUIREMENTS:

I. General Information

1. Units of Credit are awarded as follows:
0.5 credit = A one semester course which meets every day
2. Eight semesters of full-time attendance are required for graduation from Mt. Carmel High School
3. To participate in the annual graduation ceremony, all graduating seniors are required to:
 - a. Have met all MCHS and State requirements for graduation
 - b. Have paid all school debts in full
4. Diplomas, grade transcripts, and letters of recommendation are held until all school debts and obligations are fulfilled.
5. Generally, diplomas are issued to graduates immediately following the ceremony. However, the school administration reserves the right to delay this issue of the diplomas until disciplinary assignments for graduation misbehavior have been completed. (In-school suspension will be the most commonly used punishment.)

II. Course Requirements and Credits Required for Graduation

24 Credits and must include the following:

- 4 Years of English
- 3 Years of Mathematics (including Algebra & Geometry content)
- 2 Years of Science courses
- 1 Year of American History
- 1 Semester of Consumer Economics
- 1 Semester of American Government
- 1 Semester of Health
- 1 Year of Computer Literacy (Beginning Freshman entering 22-23)
- Driver Education
- 4 Years of Physical Education
- 1 Year of Electives from Art, Music, World Language or Vocational Education

Core Curriculum

Students considered for **valedictorian/salutatorian** will be required to complete the following core curriculum:

- A. 4 years of English including Honors English III & IV
- B. At least 3 years of Math including: Pre-Calculus
- C. 3 years of Lab Science including two advanced Science courses:
Advanced Biology & Advanced Chemistry
- D. 4 years of the same Foreign Language or 2 years of the same World Language and 2 years of Music, Art, or Vocational Studies

ILLINOIS COLLEGE ADMISSION RECOMMENDATIONS – Including Wabash Valley, Olney Central, Frontier, and Lincoln Trail Colleges.

Most Illinois Colleges require the following for admission:

English	4 Units
Social Studies	3 Units
Mathematics (Including Alg. I, Geometry, and 1 yr beyond Geometry)	3 Units
Laboratory Science	3 Units
World Language, Music, Art, or Vocational Education	2 Units

NCAA Athletics

NCAA legislation permits a student to receive credit for a core course only one time. As a result, if a student repeats a core course, the student will only receive credit once for the core course, and the highest grade earned in the course will be included in the calculation of the student's core course grade point average. Likewise, if a student completes a course that is duplicative in content with another core course, the student will only receive credit for one of the duplicative courses, and the course with the highest grade earned will be included in the calculation of the student's core course grade point average.

Below are the courses NCAA accepts that are offered at Mt. Carmel High School. Students must include courses from this list to meet the NCAA requirements for eligibility for NCAA division I, II, or III schools. For a full explanation of requirements, more information and a full list of courses, see www.eligibilitycenter.org; or contact the Guidance Department at Mt. Carmel High school.

English Course Title

ENGLISH I
ENGLISH II
ENGLISH III
HONORS ENGLISH III
ENGLISH IV
HONORS ENGLISH IV
NOVELS
SPEECH

Social Science Course Title

AM. GOVERNMENT
AMERICAN HISTORY
CURRENT EVENTS
ECONOMICS (CONSUMER ECON)
GEOGRAPHY
PSYCHOLOGY
SOCIOLOGY
WORLD HISTORY

Mathematics Course Title

ALGEBRA I
ALGEBRA IA (.5 MAX)
ALGEBRA IB (.5 MAX)
ALGEBRA II
ALGEBRA II B (.5 MAX)
GEOMETRY
PRE-CALCULUS
STATISTICS (offered at WVC)
CALCULUS (offered at WVC)

Natural/Physical Science Course Title

BIOLOGY
BIOLOGY ADV
BIOLOGY/AP
CHEMISTRY
CHEMISTRY ADV
EARTH SCIENCE
PHYSICS
BIO MED
HUMAN BODY SYSTEMS
MEDICAL INTERVENTIONS

Additional Core Courses Course Title

SPANISH I
SPANISH II
SPANISH III
SPANISH IV

ACADEMIC COURSES / SEQUENCE

ART

Art Foundations
Ceramics Studio (S)
Painting Studio (S)
Graphics & Print Studio (S)
Independent Art Study (S, Y)

Drawing Studio (S)
Digital & Cinema Studio (S)
Sculpture Studio (S)
Community Arts (S, Y)

ENGLISH

English I
English II
English III
English IV
Honors English III
Honors English IV

Film Studies (S)
Novels (S)
Creating Fiction (S)

WORLD LANGUAGE

Spanish I, II, III, IV

MATH

Algebra I
Geometry
Algebra II
Pre-Calculus

Algebra IA
Informal Geometry
Algebra IB
Algebra IIB

MUSIC

Chorus
Band

Music Theory I
Music Theory II

SCIENCE

Earth Science
Biology
Chemistry
Advanced Biology
Advanced Chemistry

Human Body Systems (PLTW)
Principles of Biomedical Sciences (PLTW)
Medical Intervention (PLTW)

SOCIAL STUDIES

World History (S, Y)
American History
American Government (S)
Psychology (S)

Geography (S)
Current Events (S, Y)
Consumer Economics (S)
Sociology (S)

YEARBOOK (Y)

HEALTH (S)

HEALTH OCCUPATIONS (Y)

SPORTS NUTRITION (S)

PHYSICAL EDUCATION (S,Y)

DRIVER EDUCATION (S)

WEIGHT TRAINING (S, Y)

VOCATIONAL PROGRAMS

AGRICULTURE

Introduction to the Agricultural Industry (Y)

Veterinary Science (Y)

Large Animal Care (S)

Basic Agricultural Mechanics (S)

Exploratory Horticulture Science (S)

*Supervised Agricultural Experience (S) *Must be completing an FFA requirement*

Basic Horticulture Science (Y)

Agribusiness Management (Y)

Agricultural Welding (S)

Advanced Agricultural Welding (Y)

BUSINESS

Accounting (Y)

Adobe Illustrator (S)

Adobe Photoshop (S)

Advanced Computer Applications (S)

Business Communications (Y)

Business Communications II (Y)

Business Concepts (S)

Computer Operations and Programming (S)

Computer Applications (S)

Personal Finance (S)

Graphic Communications (Y)

CEO (Y)

FAMILY & CONSUMER SCIENCES

Early Childhood Education (WVC)

WOOD MANUFACTURING

Industrial Technology (S)

Intro to Woods (S)

Wood Manufacturing (Y)

Woods II (Y)

Home Improvement (S)

Construction (S)

SERVICE LEARNING

YOUTH APPRENTICESHIP

FRESHMAN COURSES

REQUIRED

Drivers Education - P.E./Weight Training (Uniforms required) (Y)
English I (Y)
Algebra I, Algebra IA, or Geometry (Y)
Earth Science (Y)
Biology (Placed according to past records) (Y)
Math Skills (Placement if needed) (Y)

ELECTIVES

Agriculture

Introduction to Agricultural Industry (Y)
Basic Horticulture (Y)
Large Animal Care (S)

Art

Art Foundations (Y)

Business

Computer Applications (S)
Advanced Computer Applications (S)
Business Concepts (S)

World Language

Spanish I (Y)

Industrial Education

Industrial Tech (S)
Intro to Woods (S) *If Industrial tech has been completed and class is not full

Music

Band (Y)
Chorus (S,Y)

Science

Principles of Biomedical Sciences (PLTW) (Y)

Social Studies

Geography (S)

SOPHOMORE COURSES

REQUIRED

English (Y)	(follow up of freshman credits)
Math (Y)	(follow up of freshman credits)
Science (Y)	(follow up of freshman credits)
Drivers Education - P.E./Weight Training	(Uniforms Required) (Y)
Health (S)	
Math Skills & English Skills (Placement if needed) (Y)	

ELECTIVES

Agriculture	
Vet Science (Y)	Basic Horticulture Science (Y)
Large Animal Care (S)	Agricultural Welding (S)
Agribusiness Management (S)	SAE (S)
Art	
Art Foundations (Y)	Drawing Studio (S)
Ceramics Studio (S)	Digital & Cinema Studio (S)
Painting Studio (S)	Sculpture Studio (S)
Graphics & Print Studio (S)	Community Arts (S,Y)
Business	
Computer Applications (S)	Accounting I (Y)
Adv. Computer App (S)	Adobe Photoshop (S)
Personal Finance (S)	Adobe Illustrator (S)
Business Concepts (S)	
Industrial Tech	
Industrial Tech (S)	Intro to Woods (S)
Wood Manufacturing (S)	
Health	
Sports Nutrition (S)	
World Language	
Spanish I, II (Y)	
Math	
Algebra IA (Y)	Geometry (Y)
Informal Geometry (Y)	Algebra II (Y)
Algebra IIA (Y)	
Music	
Band (Y)	Chorus (S, Y)
Music Theory (Y)	
Science	
Biology (Y)	Principles of Biomedical Sciences (PLTW) (Y)
Advanced Biology (Y)	Human Body Systems (PLTW) (Y)
Chemistry (Y)	
Social Studies	
World History (S,Y)	Geography (S)

JUNIOR COURSES

REQUIRED

English (Follow up of sophomore credits) (Y)	American History (Y)
Math (Follow up of sophomore credits) (Y)	P.E./Weight Training (Y)
Math Skills & English Skills (Placement if needed) (Y)	(Uniforms Required)

ELECTIVES

Agriculture

Vet Science (Y)	Basic Horticulture Science (Y)
Exploratory Hort Science (S)	SAE (S)
Large Animal Care (S)	Agricultural Welding (S)
Basic Ag Mechanics (S)	Agribusiness Management (Y)
Advanced Ag Welding (Y)	

Art

Art Foundations (Y)	Drawing Studio (S)
Ceramics Studio (S)	Digital & Cinema Studio (S)
Painting Studio (S)	Sculpture Studio (S)
Graphics & Print Studio (S)	Community Arts (S, Y)
Independent Art Studio (Y)	

Business

Computer Applications (S)	Adv Computer Apps (S)
Adobe Illustrator (S)	Business Concepts (S)
Accounting I (Y)	Business Communications (Y)
Adobe Photoshop (S)	Business Communications II (Y)
Personal Finance (S)	Computer Operations and Programming (S)
CEO (Y)	Graphic Communications (Y)

English

Film Studies (S)
 Honors English III (Y)
 Creating Fiction (S)
 Novels (S)

Family & Consumer Sciences

Early Childhood Education (WVC)

Health

Sports Nutrition (S)

World Language

Spanish I, II, III (Y)

Industrial Education

Wood Manufacturing (Y)	Construction (Y)
Home Improvement (S)	Intro to Woods (S)
Industrial Tech (S)	

Math

Algebra IIB (Y)	Informal Geometry (Y)
Algebra II (Y)	
Pre-Calculus (Y)	

Music

Band (Y)	Chorus (S, Y)
Music Theory II (Y)	

JUNIOR COURSES

Science

Biology (Y)
Advanced Biology (Y)
Chemistry (Y)
Advanced Chemistry (Y)

Principles of Biomed Science (PLTW)
Human Body Systems (PLTW) (Y)
Medical Intervention (PLTW) (Y)

Social Studies

Current Events (Y, S)

Service Learning (Y)

Yearbook

SENIOR COURSES

REQUIRED

English (Follow up of junior credits) (Y)
American Government (S)
Consumer Economics (S)
P.E./Weight Training (Uniforms required) (Y)

ELECTIVES

Agriculture

Vet Science (Y)
Exploratory Hort Science (S)
Large Animal Care (S)
SAE (S)
Basic Ag Mechanics (S)

Basic Horticulture Science (Y)
Advanced Ag Welding (Y)
Agricultural Welding (S)
Agribusiness Management (Y)

Art

Art Foundations (Y)
Ceramics Studio (S)
Painting Studio (S)
Graphics & Print Studio (S)
Independent Art Study (Y)

Drawing Studio (S)
Digital & Cinema Studio (S)
Sculpture Studio (S)
Community Arts (S,Y)

Business

Computer Applications (S)
Advanced Computer Applications (S)
Adobe Illustrator (S)
Graphic Communications (Y)
Business Communications I & II (Y)
Computer Operations and Programming (S)

Accounting I (Y)
CEO (Y) (dual credit, requires application)
Adobe Photoshop (S)
Business Concepts (S)
Personal Finance (S)

COURSE DESCRIPTIONS

AGRICULTURE

INTRODUCTION TO THE AGRICULTURAL INDUSTRY - 1 Credit/1 Year, 9-12th Grade

This course provides an opportunity for students to learn how the agricultural industry is organized, its major component, the economic influence of agriculture at state, national and international levels, and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural construction, will be presented. Students will learn about FFA History, Structure, parliamentary procedure, leadership skills and public speaking. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are expected.

AGRIBUSINESS MANAGEMENT- 1/2 Credit/Semester, 11-12th Grade **Pre-requisite:** Intro to Ag

This course is designed to introduce students to business aspects as it relates to the agricultural industry. Instructional units that may be taught but are not limited to: agribusiness principles, agribusinesses (including business structures, establishing an ag business, the business plan, agribusiness finance, record keeping & financial management, taxes, and marketing), economics and trade including international and commodity trading, agricultural law, and personal finance management. Participation in FFA and Supervised Agricultural Experience (SAE) projects is an integral course component for any agricultural education course for leadership development, career exploration, and reinforcement of academic concepts.

LARGE ANIMAL CARE- 1/2 Credit/Semester, 10-12th Grade

Large Animal Care focuses on the care and management of large animals (cattle, pigs, horses, goats, sheep, etc.). Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, use of qualitative analyses for decision making, facilities, handling and training, and grooming are typical areas of study. Course topics may include product processing and marketing. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are expected.

VETERINARY SCIENCE- 1 Credit/1 Year, 10th - 12th Grade **Pre-requisite:** Intro to Ag

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Topics to be discussed include veterinary terminology, anatomy and physiology, pathology, genetics, handling and restraint, first-aid, and physical examinations along with common surgical skills. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be incorporated. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are expected.

BASIC HORTICULTURE SCIENCE- 1 Credit/1 Year, 9-12th Grades (Required to take it 1st semester in order to take it 2nd semester.)

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component.

EXPLORATORY HORTICULTURE SCIENCE- 1/2 Credit/2nd Semester, 10-12th Grades **Pre-requisite:** Basic Horticulture Science (Dual Credit for 11-12th)

This exploration course provides the opportunity to use what has been learned during Basic Horticulture Science and research the future of the horticulture industry. This class is a research, project-based class, heavily student-driven, and will be hands-on. Units of topic areas are grafting, floral culture, landscape design, installation, and maintenance, and horticultural business practices. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are expected.

BASIC AGRICULTURAL MECHANICS- 1/2 Credit/1 Semester, 11-12th Grades

In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include basic shop safety, hand and power tool knowledge, basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, basic welding, basic plumbing, and concrete. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are expected.

AGRICULTURAL WELDING- 1/2 Credit/1 Semester, 10th-12th Grade

Beginning Welding course enables students to gain knowledge of the properties, uses, and applications of various metals, skills in various processes used to join and cut metals (such as oxyacetylene, shielded metal, metal inert gas), and experience in identifying, selecting, and rating appropriate techniques. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are expected.

ADVANCED AGRICULTURAL WELDING 1 Credit/ 1 Year, 11-12th Grade**Pre-requisite:** Agricultural Welding

Advanced Agricultural Welding focuses on the development of advanced welding and metal fabrication techniques utilized within the agricultural industry. Topics of instruction may include welding safety, technical drawings & blueprint reading, welding symbols, CAD software, welding discontinuities and failures, destructive testing, nondestructive examination, equipment setup, metal preparation, cutting processes, shielded metal arc welding, gas metal arc welding, flux cored arc welding, gas tungsten arc welding processes, and forging. Suggested welding positions are flat, horizontal, vertical down, and vertical up. Electrodes taught and used may include E6010, E6011, and E7018. Students will complete individual and class projects. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are expected.

SUPERVISED AGRICULTURAL EXPERIENCE (SAE) - 1/2 Credit/1 Semester, 10th-12th Grade (Permission from Ag Teacher is required)

Students will gain credit by establishing or continuing a Supervised Agricultural Experience (SAE) project at their home, at a business, or at their school often occurring outside the normal school day. SAE projects are typically entrepreneurial, placement or research-based. Students will be required to verify their experiences by keeping computerized records including business agreements, budgets, inventories, daily activities, hours worked, income and expenses, etc. SAE records should be evaluated at least once per month and grades be given. During class, time student needs to be working on a project of assisting the teacher. SAE participation can lead to fulltime employment, scholarships, and awards through the FFA.

ART

LEVEL ONE

ART FOUNDATIONS - 1 Credit/1 Year, 9-12th Grades

Art Foundations is the prerequisite and foundational course for all other art courses at MCHS. This class will allow students to experiment with all art media and materials to better understand their preferences and place in the art community, including digital, drawing, painting, ceramics, sculpture, printmaking, and more. Students can also expect to learn foundational art concepts and skills to help them grow and prepare them for future art classes. Most importantly students will develop their creative thinking and problem-solving skills and learn how to make their own artistic decisions by making self-directed artworks of their choice.

LEVEL TWO

DRAWING STUDIO- ½ Credit/1 Semester, Fall Only, 10-12th Grades**Pre-requisite:** Art Foundations

Students will learn foundational drawing skills and experiment with every drawing media in this level 2 course. Participants can expect to receive guidance in learning to draw objects, environments, and people, while also experimenting with different drawing styles and developing meaning in their artwork. This course allows for students to create artworks of their choice each unit, including a final passion project that they will develop and create based on their own ideas and interests. Drawing studio is recommended to all students wishing to take more art classes, especially painting and advanced studio courses.

CERAMICS STUDIO- ½ Credit/1 Semester, Fall Only, 10-12th Grades**Pre-requisite:** Art Foundations

Students will learn about functional and non-functional 3-dimensional art making techniques mainly related to clay and pottery. Students will learn about how art affects our everyday life and create works that connect with others. Students will learn hand-building techniques, sculptural construction of clay, throwing on the pottery wheel and create a final passion project that they will develop and create based on their own ideas and interests.

DIGITAL & CINEMA STUDIO- ½ Credit/1 Semester - Fall Only, 10-12th Grades

Pre-requisite: Art Foundations

Students will use compositional techniques and digital editing software to create meaningful digital artworks related to photography and cinematography. Students can expect to watch and analyze photography and movies to gather ideas to work with photo and video editing software to create their own photographs, short films, videos, and digital artworks both on their own and in groups. This course will also equip students with a fully functioning website to display their work including a passion project that they will develop and create based on their own ideas and interests.

PAINTING STUDIO- ½ Credit/1 Semester - Spring Only, 10-12th Grades

Pre-requisite: Art Foundations

Students will learn foundational painting skills and experiment with acrylic, watercolor and ink in this level 2 course. Participants can expect to experiment with different painting styles, communicating messages with color theory, and developing meaning in their artwork. This course allows for students to create artworks of their choice each unit, including a final passion project that they will develop and create based on their own ideas and interests. Drawing class can be helpful in preparing for this course but is not required.

SCULPTURE STUDIO- ½ Credit/1 Semester, Spring Only, 10-12th Grades

Pre-requisite: Art Foundations

Students will learn about 3-Dimensional art making techniques including casting, modeling, and carving while experimenting with multiple different materials including clay, plaster, paper mache, found objects and more. Students will learn about developing meaning in 3-D artwork and create artworks of their choice each unit, including a final passion project that they will develop and create based on their own ideas and interests.

GRAPHICS & PRINT STUDIO- ½ Credit/1 Semester -Spring Only, 10-12th Grades

Pre-requisite: Art Foundations

Students will use composition and design techniques to create meaningful artworks related to graphic design and print making. Students can expect to create original designs or drawings that can be printed in multiples through both technological and hand-pressed printmaking processes such as screen-printing and block-printing. This course will also equip students with a fully functioning website to display and potentially sell their work, including a passion project that they will develop and create based on their own ideas and interests.

COMMUNITY ARTS- 1/2 Credit/1 Semester, 1 Credit/1 Year - 10-12th Grades

Pre-requisite: Art Foundations

Artists are often deeply rooted in their community and art is constantly affected by and affecting the world around them. This course focuses on the concept of the connection between community and art and will give students the opportunity to positively impact their school and town with collaborative art making activities. Students taking this course should expect to work in all types of materials, share their work with the public, and work with groups. Students will also be given the option to earn community service volunteer hours after school while working on murals, community fundraisers, and projects for other departments.

LEVEL THREE

INDEPENDENT ART STUDY- Credit/1 Year, 11-12th Grades

Pre-requisite: Passing grade in two level 2 courses

After completing two level 2 courses, students are able to progress to Advanced Studio, a yearlong class that will allow students to develop their own artistic voice, explore the materials of their choice more deeply, and organize their artworks into a portfolio of developed works. Students will spend the first semester responding to open-ended prompts and exploring different art media before creating their own inquiry and area of artistic focus for the second semester. Students will share their work with the class for critique, display their work together in an art show, create a website to display their artwork, and have the option of submitting their portfolio for the AP Art Exam at the end of the year.

YEARBOOK- 1 Credit/1 Year, 11-12 Grade

In this cross curricular, project-based class, students work collaboratively by using all of their academic skills in a real-world context. Writing, design, business, technology and communication combine for a uniquely beneficial class that yields the skills necessary for success in college and beyond. Students will creatively tell the story of the school community in an engaging way. In this college and career ready course, students think critically to meet deadlines, track to goals and utilize multimedia to market and disseminate information that aligns with and models an actual business.

An application and interview process is utilized when choosing a yearbook staff member.

BUSINESS

C.E.O. – 1 credit/1 Year - 10th – 12th Grades

CEO is a year-long experience designed to utilize partnerships that provide an overview of business development and processes. The local business community partners with area schools to create project based experiences for participants by providing funding, expertise, meeting space, business tours and one-on-one mentoring. Participants visit area businesses, learn from guest speakers, participate in a group business, write business plans, and start and operate their own individual businesses. Business concepts learned through the experiential CEO program are critical; the 21 century skills of problem solving, teamwork, self-motivation, responsibility, higher order thinking, communication and inquiry are at the heart of participant development throughout the experience. CEO will meet for 90 minutes at a variety of businesses, starting around 7:15 or 7:30 a.m., (actual start time may vary to accommodate drive time and class schedules).

COMPUTER APPLICATIONS – ½ credit/1 Semester, 9th – 12th Grades

This class teaches the basic keyboarding techniques as well as introduces basic computer terminology and applications. Networking skills will be introduced as well as spreadsheet, database, and presentation software applications. The goal is to reinforce the keyboarding skills learned at the Jr. High level, to introduce computers and their applications, and to give the students a familiarity with networking. Google Suite and Microsoft Office will be introduced during this course.

Must pass this course to enroll in other technology courses.

ADVANCED COMPUTER APPLICATIONS – ½ credit/1 Semester, 9th – 12th Grades

Prerequisite: Computer Applications

This course is a progression from Computer Applications. Topics include computers and their capabilities, file management, computer equipment, software, and careers in technology. The educational, social, and vocational aspects and impact of computers will be discussed. Applications of computers will be emphasized by utilizing Microsoft® Word, Access, Excel, and PowerPoint as well as Google Suite.

BUSINESS CONCEPTS - 1/2 Credit/1 Semester, 9-12 Grades

This orientation level course will provide an overview of all aspects of business including the concepts, functions and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, as well as the basic functional areas of finance, marketing, administration and production. Business ethics as well as other workplace skills (thinking, composing and speaking) will be discussed. Math and problem-solving will also be a component. This class will have hands on training using the computer simulations and other materials to prepare the student for workplace skills.

ACCOUNTING – 1 credit/1 Year, 11th – 12th Grades

Accounting I is a skill level course that is of value to all students who are pursuing a vocation in accounting or need a strong business background for related fields such as management, marketing, or finance. This course will include exercises in recording financial transactions, payroll, inventory and preparation of financial statements to be used by management and tax purposes. Computer application on two accounting programs will be used in the second semester.

PERSONAL FINANCE - 1/2 Credit/1 Semester, 10-12 Grades

Develops understanding of skills used to maintain a budget and accurate records in both your personal and professional life. The study of the stock market and investments will be stressed as well as life skills to function in the everyday world. Banking, online marketing and recordkeeping will be used to demonstrate how the business world uses these disciplines. Personal financial management will be stressed, as well as financial planning, handling of money and simple office practices dealing with money.

ADOBE ILLUSTRATOR – ½ credit/1 Semester, 10th -12th Grades

Pre-requisite: Computer Applications

This course offering will use the software program Adobe Illustrator to create and edit vector based illustrations such as logos and trademarks or other design elements.

ADOBE PHOTOSHOP – ½ credit/1 Semester, 10th -12th Grades

Pre-requisite: Computer Applications

This course will use the software program Adobe Photoshop to create and edit photos and pixel based art work. These images will be used to produce logos and designs for websites. Knowledge of Adobe Photoshop will be helpful in preparing for a career in an art related field.

BUSINESS COMMUNICATIONS – 1 credit/1 Year, 11th & 12th Grades

Prerequisite: Adobe Photoshop with a grade of "C" or better and/or permission of instructor with the Business Communications Application completed. Year course due to partnerships in the community.

This course is designed as a progressive approach to graphic design. Tools for use in communication and graphic design are introduced early in the course including: InDesign, Photoshop, Word, Excel, HTML coding, Flash, Macromedia® Dreamweaver, etc. Video production is also a focus with the use of Adobe Premiere. Business Partnerships are fostered through the local business community where teamwork, networking and Internet skills are covered.

BUSINESS COMMUNICATIONS II- 1 Credit/1 Year, 12th Grade

Pre-requisite: Business Communications I and permission by teacher

This course is designed further develops skills in communication and graphic design. Business partnerships are fostered through the local business community where teamwork, networking and Internet skills are covered.

COMPUTER OPERATIONS AND PROGRAMMING – ½ Credit/1 Semester, 11-12th Grades

Designed to be the first computer science course for students who have never programmed before. Students work in teams to create simple apps for mobile devices using MIT App Inventor®. Students explore the impact of computing in society and the applications of computing across career paths and build skills and awareness in digital citizenship and cybersecurity. Students model, simulate, and analyze data about themselves and their interests. They also transfer the understanding of programming gained in App Inventor to learn introductory elements of text-based programming in Python® to create strategy games.

DRIVER EDUCATION

DRIVER EDUCATION - 9th - 12th Grade

Driver Education is designed to help students develop the social, mental, and physical skills necessary to operate a motor vehicle. It will provide a foundation of knowledge and skills for safe and efficient driving for the present and future. Each student will need to complete at least 30 hours of classroom, and 6 hours of behind-the-wheel instruction. In scheduling behind-the-wheel instruction, priority is given to older sophomore, junior, and senior students in good scholastic standing. If openings are available, older freshman in good scholastic standing are scheduled. As of January 1, 1994, all students must have passed at least 8 courses during the previous 2 semesters in order to be eligible for enrollment. There will be a fee assessed for Driver Education.

ENGLISH

ENGLISH I - 1 Credit/1 Year, 9th Grade

This is a course designed to transition students to high school-level reading, writing, speaking, and listening. Throughout this course, students will study representative genres including short story, novels (including Animal Farm and Romeo & Juliet), poetry, epic poetry, drama, and nonfiction. Vocabulary development will be an integral part of this course.

ENGLISH II - 1 Credit/1 Year, 10th Grade - Pre-requisite: English I

Students will read and respond to literature from around the world. Various units of short stories and informational works, as well as poetry, will be read, analyzed, and responded to through many short writing assignments. The various genres include fiction, nonfiction, informational, science fiction, novels, and poetry. There is also a research paper required in the second semester.

English III – 1 Credit/1 Year, 11th Grade - Pre-requisite: English II

This course explores American Literature with a comprehensive study of literary movements integral to contemporary Americans. In the fall semester, literature from the American Renaissance and Southern Literature will be examined in depth; during the spring semester, women and war literature will be the focus of study. A variety of genres including poetry, drama, nonfiction, and fiction will be represented throughout the yearlong study of American Literature.

English IV – 1 Credit/1 Year, 11th Grade - Pre-requisite: English II

This is an English Literature course with comprehensive, chronological study of European literature from the Middle Ages to the present. Novel reading, essay writing, research paper writing, speaking, vocabulary study, and intensive nonfiction reading are key aspects of this final course.

HONORS English III – 1 Credit/1 Year, 11th Grade

Students who earn a B or better in each quarter of freshman and sophomore English may begin their Honors study at the junior level. Students will experience the American tradition through the historical context and the literature itself of the nation as it develops chronologically. Students in Honors English III should expect to read and write daily. Reading, writing, speaking, and listening will serve as the foundation for critical thinking development. Honors English III is a prerequisite for Honors English IV. Students must maintain a grade of C or higher first semester to remain in class second semester.

HONORS ENGLISH IV - 1 Credit/1 Year, 12th Grade - Pre-requisite: Honors English III

Honors English IV is an intensive reading and writing course. Coursework will include writing a number of essays, completing an extended research paper project, reading several novels and other literary classics, studying literary theory, and exploring technical writing. Students aspiring to study at a four-year university are strongly encouraged to enroll in Honors English IV. NOTE: Students who receive an A or a B each of the 2 semesters WILL receive dual credit through Wabash Valley College; students who do not receive an A or a B will NOT receive dual credit. Students who do not earn dual credit for the first semester may remain in Honors English IV for the second semester but will not receive credit for Composition I at Wabash Valley College. Honors English III is a prerequisite for Honors English IV. Students must have maintained a grade of C or higher in Honors III and obtained a grade of C or higher on the Honors III research paper for admittance into Honors IV. Students must also maintain a grade of C or higher first semester to remain in the class second semester.

Dual Credit: ENG 1111 Composition I

NOVELS - 1/2 Credit/1 Semester, 12th Grade

This course studies the novel genre in detail. Students will read a wide selection of classics in preparation for college-level reading. Students will complete an array of projects throughout the semester-long course. Dual credit may or may not be offered with this course, dependent upon state regulations.

CREATING FICTION -1/ 2 Credit/ 1 Semester, 11th-12th Grade

Creating Fiction is a writing course where students will explore various creative methods. Class discussion and criticism of individual writings will enable students to move from being a good writer to an exceptional communicator. Students will explore genres such as creative nonfiction, poetry, short stories, flash fiction, memoirs, etc. and will consider literary techniques such as point of view, imagery, style, voice, theme, audience, setting, etc. Entry into Scholastic's competitive writing competition will be included as an option in the course.

FILM STUDIES - 1/2 Credit/1 Semester, 11-12th Grade

Pre-requisite: You must have at least a "B" average in your English II (sophomore) or III (junior) class, teacher recommendation, no attendance or behavior issues from the previous year.

Film as Literature is a class that analyzes film versions of books the way the books would be analyzed. The class examines how modes of storytelling have been adapted to the screen. The class covers film history, theory, criticism, and storytelling. We also discuss elements such as setting and characterization. The class involves writing such as scene analysis, personal response, and critical essays. The course cannot be repeated.

FAMILY & CONSUMER SCIENCE

EARLY CHILDHOOD EDUCATION - 2 Credits/1 Year 11th - 12th Grades Pre-requisite: Good attendance, recommendation from counselor & 2 teachers. *Dual credit, taught out of the building

Early Childhood is a 2 semester course, designed to prepare & encourage students to pursue a career in childcare. The students work two class periods every school day at a childcare facility, kindergarten, 1st/2nd grade classroom. Students are exposed to actual work experiences with children at their site and to the many facets of the nursery school program operation and the preschool aged child in general through their related classroom work.

WORLD LANGUAGE

SPANISH I - 1 Credit/1 Year- *Must have an A or B in English

Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

SPANISH II - 1 Credit/1 Year- Pre-requisite: Spanish I *Must have an A or B in English or Previous Spanish Class

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

SPANISH III - 1 Credit/1 Year, 11-12th Grades - Pre-requisite: Spanish II *Must have an A or B in English or Previous Spanish Class

Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

SPANISH IV - 1 Credit/1 Year, 12th Grade Pre-requisite: Spanish III *Must have an A or B in English or Previous Spanish Class

Spanish IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.

HEALTH

HEALTH EDUCATION - 1/2 Credit/1 Semester, 10th Grade

The purpose of this course is to provide students with information concerning the mental, physical, and social aspects of health - the scientific basis for intelligent self-help preventive medicine. Such information will enable young people to make informed decisions regarding the health problems they face from day to day. It will provide them with the facts regarding such important matters as what food to eat, how to become physically fit, when to see a doctor, and the effects of smoking, drinking, and using drugs. The student will also learn the proper technique of cardiopulmonary resuscitation and basic support systems.

SPORTS NUTRITION - 1 Credit, 10th - 12th Grades

This course includes basic knowledge to live a healthy lifestyle and discover clean eating through nutrition. This class will cover: Basic Nutrition/Health terminology, Biometric Scans, Healthy meal planning, snacking, and drinks, Grocery shopping for clean eating, Food Mapping (logs), Meal Prep, Dietary Guidelines, Cooking Basics for Clean Eating, Vitamins & Minerals. Safety of Supplements, and Hydration/Caffeine. Lab experiences will reinforce clean eating. Students will be required to maintain food logs as part of this course.

HEALTH OCCUPATIONS

HEALTH OCCUPATIONS – 2 Credits/1 Year, 12th Grade (Possible 15 credit hours) *Dual credit, taught out of the building

Students will receive entry level allied health care worker training and explore a variety of health care careers. The program integrates academic, clinical experience, and application-oriented curricula. Upon completion of the training, students will have the opportunity to become a certified nursing assistant (CNA). Course work will include supervised lab and clinical experiences. Attendance may be required on several Saturdays for the CNA certificate. Students must complete the application process, have excellent school attendance, maintain a "B" average or better, have available and dependable transportation, have an interest in the health field, current immunizations, carry a professional liability insurance policy and complete a background check prior to any clinical experience.

WOOD MANUFACTURING

INDUSTRIAL TECHNOLOGY - 1/2 Credit/1 Semester, 9th Grade

This course is designed to introduce students to general shop safety, basic hand tools used in manufacturing and machining, and common machines found in a machine shop or manufacturing facility.

INTRODUCTION TO WOODS - 1/2 Credit/1 Semester, 10th Grade - Pre-requisite: Industrial Tech

The Introduction to Woods course is a course designed to introduce students to basic wood and wood working. Topics to be covered include: Working with Wood, Basic Tool and Operations, Hand Tools, Joinery and Assembly, and Use of Wood Working Machines. Each student will construct or fabricate various projects along a series of competency based activities to develop competencies in the use of hand and machine tools used in wood working.

HOME IMPROVEMENT - 1/2 Credit/1 Semester, 10-12th Grades

Pre-requisite: Intro to Woods

This class will cover basic home repair and maintenance skills needed for homeownership and adult living. Students will learn a range of skills, from basic home maintenance to more elaborate tasks like tiling a bathroom, installing locks, and repairing or replacing drywall. We will cover everything from plumbing and electrical to fixing a squeaky floorboard. The goal of this class is to be able to properly manage as an adult and a first-time homeowner.

WOOD MANUFACTURING - 1 Credit/1 Year, 11-12th Grades

Pre-requisite: Intro to Woods

This course will give the student the opportunity to expand his/her knowledge and skills of the field of wood manufacturing. A more advanced study of furniture construction techniques and related problems, now await the advanced student. They will be required to work more independently and work out solutions to problems encountered on their own. Also a mass produced project will be constructed to simulate manufacturing methods and cooperative education. *All projects must be approved by the instructor before starting. In some cases a pre-payment of at least half of the lumber cost may be required before the project can be started.*

WOOD MANUFACTURING II - 2 Credits/2 Periods/1 Year, 12th Grade Preferred -

Pre-requisite: Wood Manufacturing I

Having completed Wood Manufacturing I, the student will now be given the opportunity to expand his/her knowledge and skills of the field of wood manufacturing. A more advanced study of furniture construction techniques and related problems, now await the advanced student. They will be required to work more independently and work out solutions to problems encountered on their own.

CONSTRUCTION- 1/2 Credit/1 Semester, 11 Grade

Pre-requisite: Intro to Woods

This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Activities will allow students to become knowledgeable of fundamental principles and methods and to develop technical skills related to masonry, carpentry, and finish work. Course work will include safety principles and practices, recognition of standard lumber sizes, foundation layout methods, local, state, and national codes, cost estimation, and blueprint reading.

MATHEMATICS

ALGEBRA 1 - 1 Credit/1 Year, 9th-12th Grade - Pre-requisite: A or B in 8th Grade Math or C in 8th Grade Math with Teacher Recommendation

(TI30 XIIS Calculator Required)

Algebra I is a course organized around families of functions, with special emphasis on linear and quadratic functions. As students learn about each family of functions, they will learn to represent them in multiple ways - as verbal descriptions, equations, tables, and graphs. Students will also learn to model real-world situations using functions in order to solve problems arising from these situations. In addition to its algebra content, Algebra I includes lessons on probability and data analysis as well as numerous examples and exercises involving geometry.

ALGEBRA IA - 1 Credit/1 Year, 9th-12th Grade - Pre-requisite: C, D or F in 8th Grade Math (TI30 XIIS Calculator Required)

Algebra IA is the first year of a two-year program covering the topics taught in an Algebra I course. This course will cover the topics typically taught in the first semester of Algebra I. Topics will include the study of properties of rational numbers (ie, number theory), ratios and proportions, algebraic expressions, graphing and solving linear equations and inequalities, and linear regression. Students that successfully complete this course will be enrolled in Informal Geometry.

GEOMETRY- 1 Credit/1 Year, 9th - 12th Grade - Pre-requisite: A or B in Alg. I or C in Alg. I with Teacher Recommendation (TI30 XIIS Calculator Required)

Geometry is an in depth study of the measurement, properties, and relationships of points, lines, angles, polygons, circles, surfaces, and solids. It includes the essentials of plane Euclidean geometry which is made to develop ability in logical thinking, systematic proof, and an appreciation of mathematical structure. Students who successfully complete this course may be enrolled in Algebra II or Algebra IIA.

INFORMAL GEOMETRY - 1 Credit/1 Year, 10th-12th Grade - Pre-requisite: C, D or F in Algebra I, or successful completion of Algebra IA, and/or Teacher Recommendation (TI30 XIIS Calculator Required)

Informal geometry is a study of the topics of Euclidean geometry with emphasis on measurement, properties, and relationships of points, lines, angles, and planes, polygons and their transformations, angle pairs, triangle congruence, quadrilaterals, similarity, and right triangle trigonometry. Students who successfully complete this course will be enrolled in Algebra IB.

ALGEBRA IB - 1 Credit/1 Year, 11th-12th Grade - **Pre-requisite:** Successful completion of Informal Geometry. Beginning 2020-2021 (TI30 XIIS Calculator Required)

Algebra IB is the second year of a two-year program covering the topics taught in an Algebra I course. This course will cover the topics typically taught in the second semester of Algebra I. Concepts from the previous course will be utilized along with systems of equations and inequalities, exponents and exponential functions, polynomials and factoring, quadratic equations and functions, data analysis and probability. Students that successfully complete this course may be enrolled in Algebra IIA.

ALGEBRA II - 1 Credit/1 Year, 10th-12th Grade - **Pre-requisite:** A or B in Geometry

Algebra II is the logical extension of Algebra I and includes the development of the real number and complex number systems, solutions of quadratic equations, and inequalities, and an introduction to the elementary functions over the reals: polynomial, rational, algebraic, exponential, and logarithmic. Also included are topics in coordinate geometry and systems of equations.

ALGEBRA IIB - 1 Credit/1 Year, 12th Grade - **Pre-requisite:** successful completion of Algebra IIA (TI30 XIIS Calculator Required)

Algebra IIB is the logical extension of Algebra IIA. Algebra IIB includes the development of polynomials and polynomial functions, powers, roots, radicals, exponential and logarithmic functions, radical equations and functions, quadratic relations, conic sections, sequences, series, probability, statistics, and trigonometry. Completion of Algebra IIA and Algebra IIB will meet the Algebra II requirement for college admissions.

PRE-CALCULUS - 1 Credit/1 Year, 11th-12th Grade (must be taken at MCHS)

Pre-requisite: A or B in Algebra II or A or B in both Algebra IIA and Algebra IIB

This is an advanced course in algebra combined with trigonometry. Pre-Calculus includes a review of algebraic concepts and skills related to first and second degree functions, as well as a more in depth study of polynomial, rational, exponential, logarithmic, and logistic functions, their graphs, and their analyses. Additional topics may include matrices, row echelon form, and partial fraction decomposition. Trigonometry topics prepare students for eventual work in calculus and typically include the following topics: trigonometric and circular functions, their inverses and graphs, trigonometric identities and equations, solutions of right and oblique triangles and complex numbers. Additional topics may include mathematical induction, derivatives of polynomials, and integration.

CALCULUS - 1 Credit/.5 Year 12th Grade

Pre-requisite: A or B in Pre-calculus (Taught at WVC)

A first course in calculus and analytic geometry. Topics include: basic techniques of differentiation and integration with applications including curve sketching, anti-differentiation, the Reimann integral, the fundamental theorem of calculus, transcendental functions and applications of the definite integral. Technology will be used throughout the course.

STATISTICS - 1 Credit/.5 Year, 12th Grade - **Pre-requisite:** A or B in Algebra II (Taught at WVC)

For this class, the use of technology-based computations (more advanced than a basic scientific calculator, such as graphing calculators with a statistical package, spreadsheets, or statistical computing software) is required with an emphasis on interpretation and evaluation of statistical results. Topics include data collection processes (observational studies, experimental design, sampling techniques, bias), organization, presentation, and description of quantitative and qualitative data, percentiles, measures of central tendency, measures of dispersion, binomial distribution, normal distributions, correlation and regression, probability, hypothesis testing using p-values, confidence intervals, sampling, sampling distributions, and research methods.

MUSIC

CHORUS - 1/2 Credit/1 Semester, 1 Credit/1 Year, 9th - 12th Grades

Concert Choir is a performance based course that gives students the chance to be involved in the vocal performing arts. Concert Choir is a large mixed group which studies and performs all styles of music. Students will learn the fundamentals of vocal production, music reading, and listening skills. Concert Choir performs at the Christmas Concert, which is a requirement of the course. Failure to attend this concert will result in a failure for the quarter. Additional performance opportunities offered to Concert Choir members include: "I.L.M.E.A. and "MCHS Singing 7", and the spring musical, all of which are auditioned groups. However, spring chorus enrollment participation in spring musical is required.

BAND - 1 Credit/1 Year, 9th - 12th Grades

The MCHS Band is a performance based course that is designed to continue the development of technical proficiency of the student on his or her chosen instrument. Students must be accomplished instrumental players in order to participate as deemed so by the director. The student will be challenged by advanced high school literature. Concerts are a requirement of the course and failure to attend will result in a failing grade for the quarter. Members of the MCHS Band also participate in the following ensembles: MCHS Marching Aces, & Aces Pep Band. Marching band rehearsals are held both after school and evenings during marching season in addition to one week of band camp each summer, which is a requirement of the course. Color Guard members enroll in band 1st semester only during marching band season.

MUSIC THEORY I - 1 Credit, All Year, 9th-12th Grades

A study of basic music theory concepts including notation of pitch, rhythm and meter, scales, key and key signatures, intervals, triads, and seventh chords. The course will also focus on practical applications of these concepts such as part writing, diatonic harmony, and tonality.

MUSIC THEORY II - 1 Credit, All Year, 10th-12th Grades

A study of the musical materials and structural principles of the common practice period including tonicization, modulation, and chromatic harmony. This course will also focus on 20th century music including non-tertian harmony, neotonality, and atonality. Prerequisite: Music Theory I.

PHYSICAL EDUCATION

PHYSICAL FITNESS - 1 Credit/1 Year, 9th - 12th Grades

MCHS fitness classes promote physical fitness regardless of mental or physical ability. The class is to promote education of the whole person through physical activity. By this we mean that each of the psychological, physiological, and sociological principles are dealt with in physical education. Students are expected to dress and participate in activities daily. The course will deal with individualized sports as well as team sports. Responsibilities of the class will include: (1) Dress and participate, (2) Good conduct and sportsmanship, and (3) knowledge of the given activities.

WEIGHT TRAINING – 1/2 Credit/1 Semester, 9th-12th Grade – **Prerequisite:** Students must be involved in school-sponsored athletics (Students in multiple sports will be given priority).

Weight Training courses help students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning.

SCIENCE

PRINCIPLES OF BIOMEDICAL SCIENCES (PLTW) - 1 Credit/1 Year, 9th-11th Grades

Biomedical course introduces students to the broad field of biomedical science. It provides the study of human medicine, research, processes and an introduction to bioinformatics. Students investigate the human body system and various health conditions including heart disease, diabetes, sickle cell disease, hypercholesterolemia, and infectious diseases.

HUMAN BODY SYSTEMS (PLTW) - 1 Credit/1 Year, 10th-12th Grades - Pre-requisite: Principles of Biomed Sciences

Human body system course provides the study of basic human physiology, especially in relationship to human health. A central theme is how the body systems work together to maintain internal balance and good health. Students use data acquisition software to monitor body functions and study body structure.

MEDICAL INTERVENTIONS (PLTW) - 1 Credit/1 Year, 11th-12th Grades - Pre-requisite: Human Body Systems

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

EARTH SCIENCE - 1 Credit/1 Year, 9th Grade

Earth Science is the science course taken by most freshman. It is the study of the earth and its environment. We start our study with the broadest possible view and proceed to more specific topics. Generally, these are divided into three areas: (a) the earth in its celestial setting, (b) the physical structure of the forces that shape it, (c) the intricate relationship of its non-living things that inhabit it. The formal fields employed in each of these concepts are astronomy, geology, oceanography, weather, and ecology.

BIOLOGY - 1 Credit/1 Year, 9th - 12th Grades

General biology is a survey of the living world. We start with cells and with the simplest forms of life and work upward through all groups of organisms until we come to man. We spend a lot of time studying how living organisms are put together and how people are important to all other life forms.

ADVANCED BIOLOGY - 1 Credit, 10th - 12th Grades - **Pre-requisite:** Biology - a grade of "C" or better in Biology is recommended

Advanced Biology is primarily the study of anatomy and physiology of advanced animals, particularly man. Considerable work is done in this class through dissection. Some work will also be done in the chemistry of living organisms and in genetics.

CHEMISTRY - 1 Credit/1 Year, 10th - 12th Grades - **Pre-requisite:** Earth Science or Biology and Also Algebra I with a "C" average or approval from Guidance Department

Chemistry is an exciting and challenging course involving the study of matter. This is a full year course designed to introduce you to general chemical principle and to provide you with appropriate laboratory experience to supplement these principles. Mathematics is the foundation of all of the physical sciences including Chemistry. Therefore, there is a very strong correlation between a student's ability to do well in Algebra and their grades in Chemistry. The areas we will cover in this class are elements, periodic table, atoms, molecules, chemicals, chemical formulas and equations, gases, liquids, solids, chemical bonding, solutions, acids and bases, salts, and animal molecules. Also included in the course will be interesting applications of these topics.

ADVANCED CHEMISTRY - 1 Credit/1 Year, 11th - 12th Grades - **Pre-requisite:** Chemistry with a "C" average

The first quarter of Advanced Chemistry will consist largely of reviewing chemistry I material while going at a much faster pace and higher level of difficulty. There will also be some new material introduced. The second semester will consist largely of new material. Throughout the year, laboratory experiments will be conducted.

SOCIAL STUDIES**GEOGRAPHY** - 1/2 Credit/1 Semester, 9th - 10th Grades

Geography is designed to teach students about the lands, cultures, and peoples of the world. In a changing world, the well-informed citizen needs to know the locations of America's trading partners. Religion and economic systems are studied in detail.

WORLD HISTORY - 1/2 Credit/1 Semester, 1 Credit/ 1 Year, 10th Grade

This course is aimed at giving the student a background in the events, people, and cultural material from the beginning of history to the present time in the world outside the United States. An effort is made to use current news material to contrast the past and the present. The study of geography is also necessary to understand the world we live in. This course will familiarize the student with the physical and cultural aspects of our modern world. Everyone needs to understand what shapes our world, as well as what we need to understand other cultures of our world.

AMERICAN HISTORY - 1 Credit/1 Year, 11th Grade

Starting with the colonial period and ending with the current year. The class will trace the development of the United States. A nation which moved from a second rate agricultural nation to a great industrial nation. People and events that helped to build the nation will be examined in detail.

Videos and guest speakers will be used where appropriate. By the end of the class, students will have a clear understanding of how the United States has become a Superpower

CURRENT EVENTS - 1/2 Credit/1 Semester, 1 Credit/1 Year, 11th - 12th Grades

Current Events encourages students to be aware of an ever changing world. This includes local, state, national and international events. Television newscasts and the Internet are encouraged. Map skills are stressed when appropriate.

PSYCHOLOGY - 1/2 Credit/1 Semester, 11th - 12th Grades

Psychology is often defined as the science of behavior. The purpose of this introductory course is to provide a solid foundation, the basic principles of psychology, and also to guide students toward a greater understanding of their own capacity for consciousness, child and adolescent development, as well as a new frontier in psychology will be covered. Special areas such as research techniques, dreams, the troubled personality, career opportunities and parapsychology, add depth and interest to the course. As the understanding of self and others develops, students can become aware of self-defeating behaviors and counterproductive choices so they can make more positive decisions about their lives.

GOVERNMENT - 1/2 Credit/1 Semester, 12th Grade

This course is taught in a manner intended to provide the student with a basic understanding of the foundation of the American Government System. It is also expected that the student shall gain an understanding of the responsibilities of American citizenship. The function of the course shall also be to install an understanding of how the American Government System works. This course meets US Constitution and the Illinois Constitution Test requirements.

CONSUMER ECONOMICS - 1/2 Credit/1 Semester, 12th Grade

Consumer Economics is a course that deals with student's role as consumer in the US economic system. Students will soon be independent of their parents and faced with making their own decisions. The students should be aware of the decisions and responsibilities that they will be facing during their life. Students will participate in a simulation game.

SOCIOLOGY - 1/2 Credit/1 Semester, 11th - 12th Grades

The course deals with the behavior of groups and individuals. Much of the class work deals with sociology terms and definitions. It is the purpose of the course to help students better understand their behavior and the behavior of the other individuals and groups. Time is also given for research on social problems of the day

SERVICE LEARNING

SERVICE LEARNING - 1/2 Credit/1 Semester, 1 Credit/1 Year: 11th OR 12th Grade Only. (NOT BOTH*)

The Service Learning Program will explore the conceptual basis of volunteerism in the community from both the historical and present day perspective. Participants will select an area of the community in which they will perform volunteer work. This will provide the student with valuable insights into various aspects of our community. Examples of **volunteer** activities include the pre-school, elementary school, intermediate school, middle school, high school setting, community agencies, or various District # 348 programs and offices. Students will maintain log of activities and participate in class activities. *Before being allowed to register for the Service Learning Program the student must meet the following criteria:*

- CRITERIA:**
1. Junior or senior class standing by credits.
 2. Evidence of previous regular school attendance.
 3. Ability to maintain acceptable academic standing with a "C" average or better.
 4. Available and Dependable transportation if assigned outside the M.C.H.S. building
 5. Participant must maintain a daily log, have their driver's license at the time of enrollment, as well as participate in class meetings each month.
 6. This course may not be taken concurrent with Youth Apprenticeship Program.
 7. Students adding Service Learning beyond 1 credit will not receive credit.

** No exceptions without administrative approval.*

This class does NOT meet Social Studies College Admissions Requirements.

SPECIAL EDUCATION

District 348, through Wabash and Ohio Valley Special Education District, offers special education programs and services at Mt. Carmel High School for students who are determined eligible based on an identified disability. It is our goal to offer an education program that will meet each student's needs in the least restrictive environment. Each student's program of study will be outlined in the student's Individualized Education Plan.

The curriculum is designed to meet graduation requirements, address the student's deficits, and provide academic enrichment. Speech, Occupational, and Physical Therapy are also available to students requiring these services.

YOUTH APPRENTICESHIP

YOUTH APPRENTICESHIP PROGRAM - 1 Credit, 11th - 12th Grades

(Application to Program required, with Limited enrollment.)

The Youth Apprenticeship Program will explore the conceptual basis of sending the Vocational Student from the classroom to the workplace for both study and training. Participants will select an area of interest available in the community (restricted to the city limits of Mt. Carmel only) to train and study towards a possible career or goal. This will provide the student with valuable insights into various aspects of their future career plans. If accepted into the program, and if scheduling will allow, a Junior may take the Y.A.P. for 1 period each day, while a Senior may take it for 2 periods each day. The student must meet the following criteria before being accepted into the Youth Apprenticeship Program:

- CRITERIA:**
1. Junior or Senior class standing by credits.
 2. Evidence of excellent previous school attendance.
 3. Ability to maintain acceptable academic standing
"B" average or better.
 4. Available and Dependable transportation.
 5. An interest, as well as evidence of acceptable knowledge, in the work area chosen.
 6. Make application to the program, including at least three teacher references.
 7. Participant must maintain a work portfolio and daily logs, as well as participate in monthly class meetings.
 8. This course may not be taken concurrent with Service Learning.