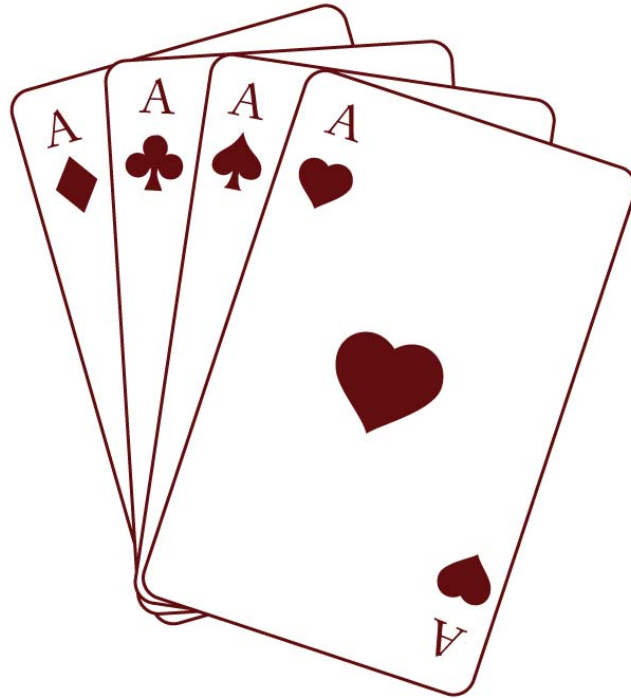


# ***MOUNT CARMEL HIGH SCHOOL***



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

**REGINA PADDICK ~ COUNSELOR  
Ext. 121**

**Guidance & Counseling  
Course Catalog**

**2017 ~ 2018**

## TABLE OF CONTENTS

INTRODUCTION.....	2
REGISTRATION PROCEDURE .....	2
GRADUATION REQUIREMENTS.....	3
COLLEGE ENTRANCE REQUIREMENTS .....	4
ACADEMIC COURSES.....	5
VOCATIONAL COURSES.....	6
FRESHMAN COURSES.....	7
SOPHOMORE COURSES.....	8
JUNIOR COURSES .....	9
SENIOR COURSES .....	10
COURSE DESCRIPTIONS.....	12
Agriculture .....	12
Art .....	13
Business .....	14
Driver Education .....	16
English .....	16
Family & Consumer Sciences .....	18
Foreign Language.....	19
Health.....	20
Health Occupations.....	20
Industrial Education.....	20
Mathematics .....	23
Music.....	25
Physical Education .....	25
Science .....	26
Social Studies .....	28
Service Learning.....	29
Special Education.....	30
Youth Apprenticeship .....	30
REGISTRATION FORMS (2) .....	31

# INTRODUCTION

## GUIDANCE SERVICES

At one time or another most students want to talk with someone who is interested in them and their problems. Counseling 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 counselor is not a disciplinarian.

## OTHER GUIDANCE SERVICES INCLUDE:

1. Planning college and career programs, and financial aid seminars.
2. Scheduling Seniors, Juniors, Sophomores, and Freshmen.
3. Administration of the PLAN, ACT, PSAT, PSAT and other standardized tests.
4. Coordination of the ASVAB testing program.
5. Explain and interpret test results for students and parents.
6. Providing job placement, tutoring and referral services.
7. Maintaining a library of college catalogs and career information.
8. Scheduling visits of representatives from various colleges and vocational schools.
9. Enrolling all new students.
10. Transcript requests.
11. Build Master Schedule.

## REGISTRATION PROCEDURE:

The Guidance Office will distribute registration booklets and other necessary information to each student. 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 available, and pre-requisites. In addition, dual credit is indicated by a "D" within parenthesis followed by the WVC class title which is added to a college transcript. For example, Business Communications would look like:

BUSINESS COMMUNICATIONS – 1 credit, 1 year, 11th & 12th grades  
(D-Intro to Web Page Construction)

## FOUR YEAR FORM

The Four-Year Plan that you will find in the center of this booklet is to help you focus on your career and college plans. Students who do not look ahead often find they do not have the necessary courses for college/career training after graduation. This plan is based on how you view your future at this time. As you progress through and make more definite decisions about your career, you make changes in your Four-Year Plan. You are to complete the plan, keep one copy for yourself, and give one copy to the counselor when you register.

## **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
- 1 Year of Algebra I (Mathematics)
- 1 Year of Geometry
- 1 Year of an additional Mathematics elective course
- 2 Years of Science courses
- 1 Year of American History
- 1 Semester of Consumer Economics
- 1 Semester of American Government
- 1 Semester of Health
- Driver Education
- 4 Years of Physical Education
- 1 Year of Electives from Art, Music, Foreign Language or Vocational Education
- 1 Semester of Civics starting with 2020 graduates

#### **Core Curriculum**

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

- A. 4 years of English including Honors English IV
- B. At least 3 years of Math including Pre-Calculus
- C. 3 years of Lab Science including two advanced Science courses selected from Advanced Biology, Advanced Chemistry, Physics or A.P. Biology
- D. 4 years of the same Foreign Language or 2 years of the same Foreign 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	3 Units
(including Alg I, Gem, and 1 yr beyond Geometry)	
Laboratory Science	3 Units
Foreign 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](http://www.eligibilitycenter.org); or contact the Guidance Department at Mt. Carmel High school.

#### English Course Title

COLLEGE/CAREER WRITING  
 ENGLISH I  
 ENGLISH II  
 ENGLISH III  
 ENGLISH IV  
 NOVELS  
 SPEECH

#### Natural/Physical Science Course Title

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

#### Social Science Course Title

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

#### Additional Core Courses Course Title

SPANISH I  
 SPANISH II  
 SPANISH III  
 SPANISH IV

#### Mathematics Course Title

ALGEBRA I	GEOMETRY
ALGEBRA II	PRECALCULUS
ALGEBRA II B (.5 MAX)	STATISTICS
ALGEBRA IIA (.5 MAX)	

## ACADEMIC COURSES / SEQUENCE

### ART

Techniques in Art  
Two Dimensional Art  
Three Dimensional Art

Advanced Studio Art I & II (S, Y)  
Art History  
Painting

### ENGLISH

English I  
English II  
English III  
English IV  
Honors English III

Speech (S)  
Novels (S)  
College / Career Writing (S)  
Yearbook  
Honors English IV

### FOREIGN LANGUAGE

Spanish I, II, III, IV

### MATH

Algebra I  
Geometry  
Algebra II  
Pre-Calculus

Algebra IIA  
Algebra IIB  
Statistics

### MUSIC

Chorus  
Band

Music Theory I  
Music Theory II

### SCIENCE

Earth Science  
Biology  
Advanced Biology  
Advanced Chemistry  
Human Body Systems (PLTW)  
Medical Intervention (PLTW)

Biological Science Applications in Agriculture  
Chemistry  
Physics  
Advanced Placement Biology  
Principles of Biomedical Sciences (PLTW)

### SOCIAL STUDIES

World History (S, Y)  
American History  
American Government (S)  
Psychology (S)  
Service Learning (S,Y)  
Civics (S)

Geography (S)  
Current Events (S,Y)  
Consumer Economics (S)  
Sociology (S)  
Honors American History

### HEALTH (S)

### HEALTH OCCUPATIONS (Y)

### PHYSICAL EDUCATION (S,Y)

### DRIVER EDUCATION (S)

## VOCATIONAL PROGRAMS

### AGRICULTURE

Introduction to the Agricultural Industry  
Greenhouse Production

Ag Mechanics & Technology  
Veterinary Technology

### BUSINESS

Accounting  
Adobe Illustrator  
Adobe Photoshop  
Advanced Computer Applications  
Business Communications  
C.E.O.  
Introduction to Computer Science (PLTW)

Business Concepts  
Business Skills  
Computer Applications  
Desktop Publishing  
Graphic Communications  
Personal Finance

### FAMILY & CONSUMER SCIENCES

Orientation to Family & Consumer Sciences  
Food & Nutrition  
Child Development  
Clothing & Textiles I & II  
Food Occupations

Advanced Clothing  
Living Environment (S)  
Adult Living (S)  
Parenting  
Child Care Occupations

### INDUSTRIAL EDUCATION

#### PROJECT LEAD THE WAY (PLTW)

Introduction to Engineering Design (PLTW)  
Principles of Engineering (PLTW)  
Computer Manufacturing (PLTW)

### METALS MANUFACTURING

Intro to CNC Programming (S)  
Advanced CNC Programming (S)  
Intro to Metals (S)

Metals Manufacturing I  
Metals Manufacturing II  
Metal Technology (2 Pds)

### WOOD MANUFACTURING

Wood Manufacturing I  
Wood Manufacturing II (2 Periods)

Intro to Woods (S)

## FRESHMAN COURSES

### REQUIRED

English I	Drivers Education/P.E.
Algebra I	Geometry
Earth Science	Civics (S)
Biology (Placed according to past records)	
Physical Education-Uniforms required	
RTI-Reading & Math placement	

### ELECTIVES

Agriculture	
Introduction to Agricultural Industry	
Art	
Techniques in Art	
Business	
Computer Applications (S)	
Advanced Computer Applications (S)	
Business Concepts (S)	
Business Skills (S)	
Foreign Language	
Spanish I	
Industrial Education	
Introduction to Engineering Design (PLTW)	
Introduction to Woods (S)	
Introduction to Metals (S)	
Family & Consumer Sciences	
Orientation to Family & Consumer Science	
Music	
Band	Chorus
Science	
Principles of Biomedical Sciences (PLTW)	
Social Studies	
Geography (S)	
Civics (S)	



## SOPHOMORE COURSES

### REQUIRED

English (follow up of freshman credits)	Science
Math (follow up of freshman credits)	RTI - Reading & Math placement
Drivers Education - P.E. - Health	

### ELECTIVES

Agriculture	
Vet Technology	Greenhouse Production
Art	
Techniques in Art	Two Dimensional Art (S, Y)
Three Dimensional (S, Y)	
Business	
C.E.O.	Accounting
Computer Applications (S)	Adobe Photoshop (S)
Adv. Computer App (S)	Adobe Illustrator (S)
Desktop Publishing (S)	Business Skills (S)
Business Concepts (S)	Personal Finance (S)
Industrial Education	
Introduction to Engineering Design (PLTW)	
Principles of Engineering (PLTW)	
Family & Consumer Sciences	
Adult Living (S)	Living Environment (S)
Clothing and Textiles	Child Development (S)
Foods & Nutrition	Parenting (S)
Foreign Language	
Spanish I, II	
Music	
Band	Chorus
Science	
Biology	Advanced Biology
Chemistry	
Biological Science Applications in Agriculture	
Principles of Biomedical Sciences (PLTW)	
Human Body Systems (PLTW)	
Social Studies	
World History (S, Y)	Geography (S)

## JUNIOR COURSES

### REQUIRED

English (Follow up of sophomore credits)    American History    P.E. - Uniforms required  
 Math (Follow up of sophomore credits)    RTI - Reading & Math placement

### ELECTIVES

#### Agriculture

Greenhouse Production                      Vet Technology                      Ag Mech & Tech

#### Art

Techniques in Art                      Art History                      Two Dimensional Art (S, Y)  
 Advanced Studio Art                      Painting                      Three Dimensional (S, Y)

#### Business

Computer Applications (S)                      Accounting                      C.E.O.  
 Desktop Publishing (S)                      Adobe Illustrator (S)                      Business Skills (S)  
 Adv Computer Apps (S)                      Web Construction                      Adobe Photoshop (S)  
 Business Communications                      Business Concepts (S)                      Personal Finance (S)  
 Graphic Communications                      Introduction to Computer Science (PLTW) (S)

#### English

Honors English III                      Yearbook                      Speech (S)

#### Family & Consumer Sciences

Adult Living (S)                      Living Environment (S)                      Foods & Nutrition  
 Clothing and Textiles I & II                      Parenting (S)                      Food Occupations  
 Child Development (S)

#### Foreign Language

Spanish I, II, III

#### Industrial Education

Intro to CNC Programming (S)                      Adv CNC Programming (S)  
 Metals Manufacturing I                      Wood Manufacturing  
 Principles of Engineering (PLTW)                      Computer Manufacturing (PLTW)

#### Music

Band                      Chorus                      Music Theory I

#### Science

Biological Science Applications in Agriculture  
 Human Body Systems (PLTW)                      Chemistry                      Physics  
 Advanced Biology                      Advanced Chemistry                      Biology  
 Principles of Biomed Science (PLTW)                      Medical Intervention (PLTW)

#### Social Studies

Current Events (Y, S)                      Service Learning (S, Y)                      Honors American History

## SENIOR COURSES

### REQUIRED

English (Follow up of junior credits)  
American Government (S)  
Consumer Economics (S)  
P.E. - Uniforms required

### ELECTIVES

#### Agriculture

Greenhouse Production  
Ag Mech & Tech  
Vet Technology

#### Art

Techniques in Art  
Two Dimensional Art (S, Y)  
Three Dimensional Art (S, Y)  
Art History (S, Y)  
Advanced Art  
Painting

#### Business

Computer Applications (S)  
Advanced Computer Applications (S)  
Desktop Publishing (S)  
Business Communications  
Adobe Photoshop (S)  
Personal Finance (S)  
Introduction to Computer Science (PLTW) (S)  
Business Concepts (S)  
Accounting  
Adobe Illustrator (S)  
Graphic Communications  
Business Skills (S)  
C.E.O.

#### English

Novels (S)  
College/Career Writing (S)  
Honors English IV  
Yearbook  
Speech (S)

#### Family & Consumer Sciences

Advanced Clothing  
Living Environment (S)  
Adult Living (S)  
Food Occupations  
Foods & Nutrition  
Parenting (S)  
Clothing and Textiles  
Child Care Occ I (2 Periods)  
Child Development (S)

#### Foreign Language

Spanish I, II, III, IV

#### Industrial Education

Metals Manufacturing II  
Wood Manufacturing II (2 Pds)  
Intro to CNC Programming (S)  
Advanced CNC Programming (S)  
Metal Technology (2 Pds)  
Computer Manufacturing (PLTW)

## SENIOR COURSES CONTINUED

### Math

Algebra I  
Algebra IIB  
Algebra IIA  
Pre-Calculus

Geometry  
Statistics  
Algebra II

### Music

Band  
Chorus

Music Theory I & II

### Science

Biology Biological Science  
Advanced Biology  
Chemistry  
Physics  
Human Body Systems (PLTW)

Applications in Agriculture  
Advanced Chemistry  
Advanced Placement Biology  
Medical Intervention (PLTW)

### Social Studies

Current Events (S, Y)  
Sociology (S)

Service Learning (S,Y)  
Psychology (S)

## **COURSE DESCRIPTIONS**

### **AGRICULTURE**

#### **INTRODUCTION TO THE AGRICULTURAL INDUSTRY - 1 Credit, 9th Grade**

This orientation course provides an opportunity for students to learn different aspects of the agricultural industry. During this course students will learn about the local FFA chapter, state, and The National FFA Organization. Students will also learn the basic concepts of plant science, animal science, soil science, horticulture, and agricultural mechanics. Students will also be provided an opportunity to join FFA and conduct a Supervised Agricultural Experience (SAE).

#### **GREENHOUSE PRODUCTION - 1 Credit, 10th - 12th Grades**

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. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

This course focuses on the greenhouse management, floral design and related segments of the horticulture industry. Major units of study include floriculture plant identification, greenhouse structures, and the culture of greenhouse crops. Also included are care and handling of cut flowers, principles of art applied to floral design, and the mechanics of floral design. Agribusiness units will be introduced in merchandising, advertising, sales, and operating a retail floral business. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

#### **VETERINARY TECHNOLOGY - 1 Credit/1 Year, 10th - 12th Grade**

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. 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 a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

#### **AGRICULTURAL MECHANICS AND TECHNOLOGY - 1 Credit/1 Year, 11th & 12<sup>th</sup> Grades**

This course will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, renewable energy (Wind, Water, and Solar), and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural

Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

## **ART**

### **TECHNIQUES IN ART - 1 Credit - (Open to all grade levels)**

Techniques in Art is a one-year course designed to help students develop the perceptual, critical, and technical skills needed to produce two and three-dimensional works of art. Emphasis is placed on learning the elements and principles of art and the development of skill in drawing from life. Printmaking, color, and craft medium will be introduced as well as art history. This course is a pre-requisite for all other studio art courses.

### **TWO-DIMENSIONAL ART - 1/2 Credit/1 Semester, 1 Credit/1 Year - 10-12th Grades**

Pre-requisite: Techniques in Art

This course further explores the elements and principles of art with an emphasis on developing dynamic composition. Development of a high level of technical skill with drawing, printmaking and painting media will be expected as well as the integration of a personal style. All fall semester assignments will be completed with black and white media, while spring semester assignments will focus on color theory.

### **THREE-DIMENSIONAL ART - 1/2 Credit/1 Semester, 1 Credit/1 Year-10th-12th Grades**

Pre-requisite: Techniques in Art

This course focuses on the concepts and principles used to produce three-dimensional art. Students will develop skill and confidence with hand building and wheel throwing techniques in clay. Students will also explore a variety of media in fibers, and crafts.

### **ADVANCED STUDIO ART - 1/2 Credit - 12th Grade**

Pre-requisite: Six Semesters of Art, including Two-dimensional Art

This course is designed for the highly skilled and motivated student. Emphasis will be on the student to develop proficiency in a selected medium, often working independently. Self-expression, creative thinking, and problem solving will be required. Assembly of a scholarship portfolio is expected.

### **ART HISTORY - 1 Credit - 11th - 12th Grades**

This course will be devoted to the chronological study of the history of art, beginning with pre-historic and concluding with contemporary movements. Students will develop skills in analyzing and evaluating art as well as understanding the importance of the historical significance of the arts. This course is intended for the serious art student or as a college preparatory class for the non-art student. May take for 1 semester, 1/2 credit, fall semester only.

### **PAINTING - 1/2 Credit/1 Semester, 1 Credit/1 Year - 11th and 12th Grades -**

Pre-requisite: Four Semesters of Art, including Two-Dimensional Art

This course is designed for the skilled drawing student who has completed a full year of Two-Dimensional Art and wishes to develop skill in painting. Emphasis will be placed on working in watercolor and acrylic media. The student will be expected to work independently and should be competent in color theory before enrolling in the course.

## **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.

Goal: 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 (the high school's network in particular).

### **ADVANCED COMPUTER APPLICATIONS – ½ credit, 1 Semester, 9th – 12th grades**

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.

Prerequisite: Computer Applications or equivalent

### **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, including entrepreneurship, as well as the basic functional areas of (finance, marketing, administration and production). Business ethics as well as other workplace skills (thinking, listening, composing and speaking.) will be discussed. Math and problem-solving will also be a component. This class will have hands on training, by using computer simulations and other materials to prepare the student for work place skills.

### **BUSINESS SKILLS - 1/2 Credit, 1 Semester, 9-12 grades**

This is a course to better prepare the students for entry-level employment in a technology based office setting. Subjects that will be hit upon in the course will be Banking, Business Law, Economics, Accounting, Office Management Skills and Recordkeeping. Telephone communication, records and how to behave in a business workplace environment will be discussed. Use of spreadsheets, desktop publishing, business simulations and basic forms of financial activities will be stressed. Business law concepts and details of global and national economy will be taught as well as a segment in computerized recordkeeping.

**ACCOUNTING** – 1 credit, 1 Year, 10th – 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 Credit, 1/2 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

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. Prerequisite: Computer Applications

**ADOBE PHOTOSHOP** – ½ credit, 1 Semester, 10th -12th grades

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. Prerequisite: Computer Applications

**DESKTOP PUBLISHING** – ½ credit, 1 Semester, 10th – 12th grades

Concepts of DTP include terminology and use of various desktop programs to produce simulated business projects and reality-based learning projects. This includes but is not limited to multiple typefaces, multi-column layouts, and graphic productions. Prerequisite: Computer Applications or equivalent.

**BUSINESS COMMUNICATIONS** – 1 credit, 1 year, 11th & 12th grades

This course is designed as a progressive approach to web design. Tools for use in communication and web design are introduced early in the course including: InDesign, Photoshop, Word, Excel, HTML coding, Flash, and Macromedia® Dreamweaver. Business Partnerships are fostered through the local business community where teamwork, networking and Internet skills are covered. Prerequisite: Adobe Photoshop with a grade of “C” or better and/or permission of instructor.

**GRAPHIC COMMUNICATIONS** – 1 Credit, 1 Year, 11th – 12th grades

This course will consist of a more comprehensive study of the job printing industry. “Desktop Publishing” will be taken to a higher level with more intricate layouts and styles of forms being produced to gain further layout experience requiring more skills. A simulation of a business project will be used to introduce the students to all aspects of communications used in a business situation. Prerequisite: DTP I or equivalent.



## **INTRODUCTION TO COMPUTER SCIENCE (PLTW) – ½ Credit, 1 Semester**

Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science (ICS) is an optional starting point for the Project Lead The Way (PLTW) Computer Science program. 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, 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, novel, poetry, epic poetry, drama, and nonfiction. Vocabulary development will be an integral part of this course.

### **ENGLISH II - 1 Credit, 10th Grade - Pre-requisite: English I**

Students will continue development in reading, writing, speaking, and listening. This is a World Literature course, so students will read literature from Latin America, Africa, Middle East, Asia, Russia, and Germany throughout the second year of English study. Representative genres include short story, novels, poetry, drama, and nonfiction. Introducing students to MLA research will also be a major component of this course.

### **HONORS ENGLISH III – Grade 11**

Students who earned a B or better in each quarter of Honors Freshman and Sophomore English may continue their Honors study at the junior level. Students will have concurrent enrollment in Honors American History in order to fully experience the American tradition through the history and literature of the nation as it develops chronologically. Students in Honors English should expect to read and write daily. The combined course load for Honors English III and Honors American History will be substantial.

**ENGLISH III** - 1 Credit, 11th Grade - Pre-requisite: English II

This is an American Literature course with comprehensive, chronological study of the literary movements beginning with the founding of the nation. Students will read a significant portion of nonfiction literature in addition to short stories, poetry, and drama. While the thrust of the literature, particularly in the first semester, is focused on nonfiction pieces, this course also emphasizes writing and language skills.

**ENGLISH IV** - 1 Credit, 12th Grade - Pre-requisite: English III

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 IV** - 1 Credit, 12th Grade - Pre-requisite: English III  
(D - Introduction to Composition and Comp I)

Honors/Dual Credit English 4 is available for students who earn a B or better in English 2 and English 3. Honors/Dual Credit English is an intensive reading and writing course with significantly more reading and writing done outside of class than English 4. Students aspiring to study at a four-year university are strongly encouraged to enroll in Honors/Dual Credit English 4. 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, will NOT receive dual credit.

**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.

**SPEECH** - 1/2 Credit, 1 Semester, 11th - 12th Grades

(D-SPE 1101-Fundamentals of Effective Speaking)

Speech is a practical course to help students develop effective communication skills needed for college/career readiness. The course includes analysis and practice of informative and persuasive speaking, placing emphasis on selection and organization of materials, methods of securing interest and attention, and elements of delivery as well as characteristics of effective criticism and listening.

**COLLEGE / CAREER WRITING** - 1/2 Credit, 1 Semester, 12th Grade

College & Career writing is a practical course to help students prepare for collegiate-level writing. Students will focus largely on formal essay writing. Class discussion and criticism of individual writings will enable to a student to move from being a good writer to an exceptional communicator. Creative writing opportunities are a component of this course.

**YEARBOOK** - 1 Credit, 11th - 12th Grades, with permission of instructor and administration

This multi-disciplined course provides practical experience and training in the fundamentals of marketing, makeup, layout, and production of a student publication.

## **FAMILY & CONSUMER SCIENCES**

### **ORIENTATION TO FAMILY & CONSUMER SCIENCES - 1 Credit, 9th Grade**

This course includes units in housing and interior design, nutrition and food preparation, clothing and textiles, personal relationships, and personal management. Skills will be developed through labs in interior, foods, sewing, and baby-sitting.

### **ADULT LIVING - 1/2 Credit, 1 Semester, 10th - 12th Grades**

This course is a study of the dual role of family members and their relationships, parenting, factors to consider when planning love, engagement, marriage, adjustments in marriage, and their responsibilities as adults in achieving personal goals through multiple roles in the home, community, and places of employment. Students will plan and calculate the cost of a wedding, as well as create an album with all the plans and figures.

### **LIVING ENVIRONMENT - 1/2 Credit, 1 Semester, 10th - 12th Grades**

This course is designed to introduce the basic knowledge and skills needed to select, acquire, maintain, and manage a living environment that meets the needs of the occupants. Emphasis will be placed on the application of basic management principles as they relate to the environment. Students will learn many fun and educational projects, like refinishing furniture, painting walls, and decorating techniques.

### **PARENTING/ CHILD DEVELOPMENT - 1/2 Credit, 1 Semester, 11th-12th Grades**

This course deals with the development of a child from the parent's point of view. Students will learn about parenting challenges such as; building strong families, health and safety; family changes; prenatal development; preparing for the birth; and intellectual, physical, and emotional development of an infant. "The Empathy Belly", "Baby-Think-It-Over", and parenting projects will enhance the class experience. (lab fee \$5.00 per semester)

### **CHILD DEVELOPMENT - 1/2 Credit, 1 Semester, 11th - 12th grades**

This course deals with the development of a child from the caregiver's point of view. Students will explore topics such as; intellectual, physical, and emotional development of children age one to adolescences; childcare and early education, and career's with children. Projects in childcare will enhance the class experience. (lab fee \$5.00 per semester)

### **CLOTHING AND TEXTILES I - 1 Credit, 10th - 12th Grades**

This course involves the study of basic sewing techniques, influences on clothing, cultures and customs, clothing and families, clothing and self-expression, textile fibers, fabric construction, and fabric finishes. The course develops skills further through projects selected and constructed by students.

### **CLOTHING AND TEXTILES II - 1 Credit, 11th-12th Grades**

Pre-requisite: Clothing and Textiles I

This course involves the study of more advanced sewing techniques, fashion history, fashion styles, fashion designers, and the fashion industry, understanding color and design, develops skills further through projects selected and constructed by students.

**FOOD OCCUPATIONS** - 1 Credit, 11th-12th Grades Pre-requisite: Foods and Nutrition

This class involves the study of more advanced food techniques, exploring careers in food, writing about food, reading culinary novels, and cookbook editing.

**ADVANCED CLOTHING** - 1 Credit, 12th Grade Pre-requisites: Clothing Textiles I and II

The most advanced study of construction, exploring clothing options, accessing information, evaluation selections, consumer responsibilities, selecting clothing for others, career preparation, success on the job, fashion entrepreneurs, and the global marketplace. The course develops skills further through projects selected and constructed by students.

**FOODS AND NUTRITION** - 1 Credit, 10th - 12th Grades

This course includes information about nutrition, foods, and basic food preparation. This class will cover: 1. Food choices and customs, 2. Nutrition information, 3. Meal planning, 4. Working in the kitchen, 5. Food safety, 6. Basic food preparation skills, 7. Food topics. Lab experiences will reinforce textbook information.

**CHILD CARE OCCUPATIONS** - 2 Credits - 11th - 12th Grades

Pre-requisite: Parenting/Child Development, Child Development, good attendance, and recommendation from counselor & 2 teachers

Child Care Occupations is a two semester course, designed to prepare and encourage students to pursue a career in childcare. The students work two class periods every school day at a childcare facility, kindergarten, first or second 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.

## **FOREIGN LANGUAGE**

**SPANISH I** - 1 Credit - Pre-requisite: Student must be willing to communicate freely with the teacher and other students to complete in-class activities and speaking labs.

Spanish at MCHS revolves around speaking. From day one we begin building sentences to form intriguing and useful conversations. At the end of the unit each student shares a lab, answering questions that we have thoroughly practiced in class. Students may choose to present the lab to the class, or submit a video lab. Units covered in our program include: eating/drinking, work/rest, fun/travel, help/hurt.

**SPANISH II** - 1 Credit - Pre-requisite: Student has built beginning/intermediate fluency with the Spanish present tense of -ar, -er, -ir verbs.

Spanish 2 sharpens the skills you acquired in the first level, then helps you expand your speaking prowess to topics including your childhood and recent past. As per usual, the units covered mirror and expand upon Spanish 1. Again, students submit speaking labs at the close of each unit, choose to either share an oral presentation with the class or render a video lab.

**SPANISH III** - 1 Credit - Pre-requisite: Student has built intermediate/advanced fluency with the Spanish present tense and beginning/intermediate fluency with both past tenses-preterite and imperfect.

In third-year Spanish you begin sharing your hopes and doubts for the future, moving on to what you "have" and "have not" accomplished during your lifetime, and finally close the circle with

hopes and doubts of the past. Lessons expand from the traditional four units to include themes of history, literature, science, mathematics, music, and culture. Speaking and conversation remain our focus as you develop your skills to become a bilingual individual.

**SPANISH IV - 1 Credit** Pre-requisite: Student has built intermediate/advanced fluence with the Spanish present, preterite, and imperfect tenses as well as beginning/intermediate fluency with the subjunctive, perfect, and imperfect subjunctive tenses.

Akin to Spanish 3, the fourth-year offers you the opportunity to seal in your fluency and lock it tight. Besides perusing the self-same units and themes, this final year allows you the opportunity to help teach younger students the ropes of Spanish as well as adopt a heavy dose of slang into your vocabulary. You have the freedom to form your own study program, working collaboratively with the teacher as necessary.

## **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.

## **HEALTH OCCUPATIONS**

**Health Occupations – 1 Credit, 1 Year, 12th Grade (D- possible 15 credit hours)**

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.

## **INDUSTRIAL EDUCATION**

**INTRODUCTION TO ENGINEERING DESIGN (PLTW) - 1 Credit, 9th-12th Grades**

This course teaches problem-solving skills using a design development process. Models of product solutions are created analyzed and communicated using solid modeling computer design software.

**PRINCIPLES OF ENGINEERING (PLTW) - 1 Credit, 10th-12th Grades -**

Pre-requisite: Intro to Engineering Design

This course helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing process helps students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. This course also includes concerns about social and political consequences of technological change.

**COMPUTER MANUFACTURING (PLTW) - 1 Credit, 11th-12th Grades -**

Pre-requisite: Principles of Engineering

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the career opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation.

## **METAL MANUFACTURING**

**INTRODUCTION TO METALS - 1/2 Credit, 10th Grade**

The Introduction to Metals course is course designed to introduce students to basic metals and metal working. Topics to be covered include: Basic Lab Safety, Arc Welding, Sheet Metal Fabrication, Conventional Mill, Conventional Lathe and AutoCad. Each student will construct or fabricate various projects along a series of competency based activities to develop competencies and skill in the use of hand and machine tools.

**METAL MANUFACTURING I - 1 Credit, 11th Grade Preferred - Pre-requisite: Intro to Metals**

This course covers basic machining on lathes, mills and grinders. It is designed to aid the students in becoming familiar with the basic fundamentals of machine tool technology. In addition the student will produce projects utilizing CNC (Computer Numerically Controlled) machines. The importance of shop safety, teamwork and good attendance are stressed.

**METAL MANUFACTURING II - 1 Year, 12th Grade Preferred - Pre-requisite: Metals Manufacturing I**

A program for seniors who have chosen metal trades as a vocation. Machine tool operations, and related skills are taught. Competencies for this course include: construction of projects in specifications of drawing or prints; accomplishment of all the areas of study covered in Metals I.

**INTRO TO CNC PROGRAMMING – 1 Semester, 11th & 12th Grades Preferred**

This course is an introductory course in the operation of Computer Numerically Controlled (CNC) systems. The course will cover basic topics including Cartesian Coordinate Systems, machines using CNC, programming systems, elements of a part program, G codes, M codes and interpolation. The student will utilize the Spectra Light Mill to complete programming exercises to demonstrate an understanding of concepts.

**ADVANCED CNC PROGRAMMING – 1 Semester - 11th & 12th Grades –**

Pre-requisite: Intro to CNC Programming

This course is a more in depth study of Computer Numerically Controlled (CNC) systems. The course will build on concepts in the Introductory CNC course. Additional topics will include

programming format, work settings and offsets, milling and drilling, and programming hints. Specific programming projects will be assigned for completion on the Spectra Light Mill. There will be an emphasis on writing and editing programs.

**METAL TECHNOLOGY – 2 Credits, 2 Periods, 11th & 12th Grades**

Fall - WEL 1201 Practical Welding; Monday & Wednesday; 8:00-9:50

MAN 1211 Industrial Electricity; Tuesday & Thursday: 8:00-9:50

**Course Descriptions:**

WEL 1201 Practical Welding: This course is designed to provide students instruction in specialized welding. Individual projects are designed and completed. Welding safety is stressed.

MAN 1211 Industrial Electricity: This course provides instruction in industrial electricity including atomic structure, metric system, electrical qualities, series circuits, parallel circuits, combination circuits, simple control devices, and control relays. Emphasis is placed on applying classroom theory to lab reality and basic troubleshooting of electrical circuits is taught.

Spring - CAD 1210 Computer Aided Drafting I; Monday & Wednesday; 8:00-9:50

MAN 1204 Manufacturing Materials & Processes: T & Th; 8:00-9:50

**Course Descriptions:**

CAD 1210 Computer Aided Drafting I: An introduction to the use of microcomputers for design of industrial blue prints of intermediate complexity. Sketching, lettering, orthographic projections, descriptive geometry, point, line, basic geometric shapes will be covered. The student will demonstrate the use of menus, layers, fonts, and weights. Basic dimensioning, tolerancing, and pictorial drawings will be covered. The student will be expected to draw a blueprint with simple dimensions, labels, and notes using different layers.

MAN 1204 Manufacturing Materials & Processes: This course introduces the student to various types of industrial materials, their properties and how the materials themselves are manufactured. Materials will include: ferrous metals, non-ferrous metals, powder metallurgy, composites, plastics, ceramics and other materials as technology progresses. Further study will be given to the manufacturing processes that use these materials to create products and goods. Major areas of concentration in manufacturing processes include: casting, molding, forging, machining processes, welding/joining processes and other techniques related to modern manufacturing.

## **WOOD MANUFACTURING**

**INTRODUCTION TO WOODS - 1/2 Credit, 1 Semester, 10th Grade**

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.

**WOOD MANUFACTURING I - 1 Credit, 1 Year, 11th Grade Preferred - Pre-requisite: Intro to Woods**

The Wood Manufacturing I student will have the opportunity to gain some knowledge and basic skills that will enable him to become useful to themselves and to others. Students will have the opportunity to discover their vocational abilities as well as their limitations so that future vocational

selections will be wise and purposeful. Students will learn to identify and know basic tree sawing techniques used by the lumber dealers. They will be able to figure board feet, square feet, and have some knowledge of how to purchase lumber materials. Identifying and knowing the use of all hand woodworking tools available to them in our shop will be covered. They will know the main working parts of, and be able to use safely the scroll saw, bandsaw, drill press, radial arm saw, hand saw, hand drill, table saws, jointer, surface planer, router, sanders, electric hand drills, and have a limited knowledge of various wood construction joints and how and when to use them in construction of a project.

During the second semester of this course, the student will have the opportunity to gain additional wood manufacturing knowledge. The student, having completed the first semester orientation class of woodworking, will now be given the opportunity to expand their knowledge and skills of woodworking. A brief review of machines and their safe use, the student will be required to turn in a plan of procedure as to how he will construct a more detailed wood manufacturing project. 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, 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. 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.

## **MATHEMATICS**

**ALGEBRA I** - 1 Credit, 9th - 12th Grade (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.

**GEOMETRY** - 1 Credit, 9th - 12th Grades - Pre-requisite: Algebra I or "C" or above in Integrated Algebra I  
(Scientific Calculator Required, TI 30XIIS recommended)

Geometry deals with 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 Geometry may be enrolled in Algebra II or Algebra IIA.



**ALGEBRA II** - 1 Credit, 10th - 12th Grades - Pre-requisite: "C" or above in Geometry  
(TI84 Calculator Required)

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, systems of equations, sequences and series, and matrices.

**ALGEBRA IIA** - 1 Credit, 11th - 12th Grades - Prerequisite: Geometry  
(Scientific Calculator Required)

Algebra IIA is the logical extension of Algebra I and Geometry. Algebra IIA includes the development of equations, linear functions, systems of equations and inequalities, matrices, and quadratic and polynomial functions. Students who successfully complete Algebra IIA may be enrolled in Algebra IIB. Completion of Algebra IIA and Algebra IIB will meet the Algebra II requirements for college admissions.

**ALGEBRA IIB** - 1 Credit, 11th - 12th Grades - Prerequisite: Algebra IIA (TI 84 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.

**STATISTICS** - 1 Credit, 1 Year, 11th - 12th Grades - Pre-requisite: "C" or above in Algebra II  
(TI84 calculator is required)

Statistics is a year course for students whose mathematics background is Algebra II. The course uses a nontheoretical approach in which concepts are explained intuitively and supported by examples. Exercises include problems from agriculture, biology, business, economics, education, psychology, engineering, medicine, sociology, and computer science. Topics that will be covered include nature and probability of statistics, frequency distribution and graphs, measure of central tendency, measures of variation, measures of positions, counting techniques, probability, probability distribution, normal distribution, confidence interval and sample size, and hypothesis testing.

**PRECALCULUS** - 1 Credit, 1 Year, 11th - 12th Grades –

Pre-requisite: Algebra II with a grade of A or B - Graphing Calculator (TI-84 Series) is required.

Precalculus is a course designed for those students who have successfully completed two years of algebra and a year of geometry, who are highly motivated, and who plan to study mathematics, engineering, science, business, or related field. The course contains the traditional calculus preparatory topics of function theory, polynomial and rational functions, logarithmic and exponential functions, right triangle trigonometry, circular functions, analytic geometry, conics, and certain topics in series, and mathematical induction.

## **MUSIC**

### **CHORUS - 1 Credit, 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.M.E.A. Lunch Choir", and "MCHS Singing 7", and the spring musical, all of which are auditioned groups.

### **BAND - 1 Credit, 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. The MCHS Band performs at the Christmas Concert, and at MCHS Graduation. 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 participate in the following ensembles: MCHS Marching Aces, and Aces Pep Band, and also include the Drum Line & Color Guard as axillary units. Marching band rehearsals are held two days a week after school thru October, and one week of Full Band Camp at MCHS in the late summer, both of which are requirements for the course. Freshman marchers also attend a 3 day camp at MCHS before Full Band Camp, known as Rookie Days. All Drum Majors, Section Leaders, Drum Line Members & Color Guard Members attend a mandatory week of specialty training camp each summer in July at a University.

### **MUSIC THEORY I - 1 Credit, All Year, 10th - 12th Grades (D - Beginning Music Theory)**

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, 11th - 12th Grades (D - Beginning Music Theory)**

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, neotonicity, and atonality. Prerequisite: Music Theory I.

## **PHYSICAL EDUCATION**

### **PHYSICAL FITNESS - 1 Credit, 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 participation, (2) good conduct and sportsmanship, and (3) knowledge of the given activities.

## SCIENCE

### **PRINCIPLES OF BIOMEDICAL SCIENCES (PLTW)** - 1 Credit, 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.

\*To be taken concurrently with a core science course.

### **HUMAN BODY SYSTEMS (PLTW)** - 1 Credit, 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.

\*To be taken concurrently with a core science course.

### **MEDICAL INTERVENTIONS (PLTW)** - 1 Credit, 11th-12th Grades -

Pre-requisite: Human Body Systems with a “C” average.

The Medical Intervention course allows students to study a variety of medical interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. Students participate in projects that investigate interventions related to diagnostics, immunology, surgery, genetics, pharmacology, medical devices, and lifestyle choices.

### **EARTH SCIENCE** - 1 Credit, 9th Grade

Earth Science is the science course taken by most freshmen. It is the third course in a sequence: biology in the seventh grade, physical science in the eighth grade, and earth science in the ninth grade (freshman year). Earth science 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, 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

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. Pre-requisite: A grade of “C” or better in Biology is recommended.

## **BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE - 1 Credit, 10th - 12th Grade –**

Pre-requisite: 1 year Biology

Biological Science Applications in Agriculture is a course designed to reinforce and extend the student's understanding of science by associating scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant and animal agriculture and the specific biological science concepts that govern management decisions in the plant and industries. This course will deepen student's understanding of science as content and as a process through the use of numerous laboratory exercises and experiments. Students can also establish a Supervised Experience Program and participate in agricultural science activities in FFA.

One year of biology is recommended as a pre-requisite for enrollment. In BSAA students will apply their knowledge of biology to management decisions and practices in agriculture. Sample topics include: 1) Initiating Plant Growth - germination, plant sensory mechanisms, enzyme action, absorption; 2) Managing Plant Growth - photosynthesis, respiration, translocation, metabolism and growth regulation; 3) Growth and Development of Animals - embryology, ethnology, nutrition, immunity systems; 4) Processing Animal Products - preservation, fermentation, and pasteurization.

This course will enhance student achievement in the basic learning areas of biology as specified in the State Learning Standards. The course will be valuable for students planning to pursue further education, especially in agriculture or the sciences. Students not planning further schooling will find the laboratory course increases the relevance of sciences through the applied setting of agriculture by enhancing literacy in science and the scientific process.

## **CHEMISTRY - 1 Credit, 10th - 12th Grades - Pre-requisite: Earth Science or Biology**

- 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 PLACEMENT BIOLOGY - 1 Credit, 12th Grade**

The Advanced Placement Biology course is designed to be taken by seniors. Pre-requisite: High School biology and chemistry. These students need to have achieved a "B" or better in all previous MCHS science classes.

## **PHYSICS - 1 Credit, 11th - 12th Grades - Pre-requisite: Algebra II with a "C" average or approval from the Department Chairman**

Physics is a challenging and exciting branch of science that involves the study of physical phenomena in order to establish patterns. Physics students will investigate everything from atoms to galaxies, from toys to toasters, and from music to plumbing. They study relationships between matter and energy, particles and waves. MCHS physics is a mathematical based course with an emphasis on the problem solving skills. The content is geared to produce genuine understanding of the physical laws fundamental to all sciences. Students are rarely asked to memorize details, rather, they are led to understand the basis for each major physics concept. Mechanics is the first concept presented and it provides the basis for discussing sound and light.

**ADVANCED CHEMISTRY** - 1 Credit, 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**

**CIVICS** - 1/2 Credit, 1 Semester, 9th Grade

Civics will help young people acquire and learn to use the skills, knowledge, and attitudes that will prepare them to be competent and responsible citizens throughout their lives. The Civics course content shall focus on government institutions, the discussion of current and controversial issues, service learning, and simulations of the democratic process. This could include High School mock trials, voting processes, and current topics in the news about government involvement.

**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, All 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. 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, 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.

**HONORS AMERICAN HISTORY** - 1 Credit, 11th Grade

United States History Honors is a one-year survey of the significant political, economic, social, cultural and diplomatic developments in American history. Students will have concurrent enrollment in Honors English III. A majority of this non-traditional class will be project-based and student-led. Students will use primary and secondary course document analysis to address major themes, including the changing nature of U.S. Democracy, the changing face of American society, and the United States' changing role in the world. Students in this course are expected to complete more rigorous coursework and to routinely use higher order thinking skills. The course meets U.S. and Illinois Constitution Test requirements.

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

Current Events encourages students to be aware of an ever changing world. This includes local, state, national and international events. Newspapers and T.V. newscasts or the Internet are encouraged. T.V. newscasts (CNN) will be used in class as well as The Evansville Courier and The Daily Republican Register. Map skills are stressed where appropriate.

**PSYCHOLOGY** - 1/2 Credit, 1 Semester, 12th Grade

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.

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

Consumer Economics looks at the student's role as a consumer. Students at this level 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, 12th Grade

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, All 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.

\* 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 district provides special programs for Educable Mentally Handicapped, Learning Disabled, and Behavior Disordered students. 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.

STUDENT NAME \_\_\_\_\_

Phone # \_\_\_\_\_

DATE \_\_\_\_\_

First

Last

M.I.

**ACADEMIC / GENERAL**

**ENGLISH**

- English I \_\_\_\_\_
- English II \_\_\_\_\_
- English III \_\_\_\_\_
- Honors English III \_\_\_\_\_
- English IV \_\_\_\_\_
- Honors English IV \_\_\_\_\_
- Speech (S) \_\_\_\_\_
- Novels (S) \_\_\_\_\_
- College/Career Writing (S) \_\_\_\_\_
- Yearbook \_\_\_\_\_

**FOREIGN LANGUAGE**

- Spanish I, II, III, IV \_\_\_\_\_

**MATHEMATICS**

- Algebra I \_\_\_\_\_
- Geometry \_\_\_\_\_
- Algebra II \_\_\_\_\_
- Algebra IIA \_\_\_\_\_
- Algebra IIB \_\_\_\_\_
- Precalculus \_\_\_\_\_
- Statistics \_\_\_\_\_

**MUSIC**

- Chorus \_\_\_\_\_
- Band \_\_\_\_\_
- Music Theory I & II \_\_\_\_\_

**SCIENCE**

- Earth Science \_\_\_\_\_
- Biology \_\_\_\_\_
- Prin of Biomed (PLTW) \_\_\_\_\_
- Human Body Sys (PLTW) \_\_\_\_\_
- Medical Interventions (PLTW) \_\_\_\_\_
- Advanced Biology \_\_\_\_\_
- Biological Science \_\_\_\_\_
- Applications in Agriculture \_\_\_\_\_
- Chemistry \_\_\_\_\_
- Advanced Chemistry \_\_\_\_\_
- Physics \_\_\_\_\_
- Advanced Placement Biology \_\_\_\_\_

**SOCIAL STUDIES**

- Civics (S) \_\_\_\_\_
- Geography (S) \_\_\_\_\_
- World History (S, Y) \_\_\_\_\_
- American History \_\_\_\_\_
- Honors American History \_\_\_\_\_
- Current Events (S, Y) \_\_\_\_\_
- Service Learning (S, Y) \_\_\_\_\_
- Consumer Economics (S) \_\_\_\_\_
- American Government (S) \_\_\_\_\_
- Sociology (S) \_\_\_\_\_
- Psychology (S) \_\_\_\_\_

**HEALTH (S)**

**HEALTH OCC (2 periods)**

**DRIVER ED. (S)**

**PHYSICAL ED. (S, Y)**

**FINE ARTS**

**ART**

- Techniques in Art \_\_\_\_\_
- 2D Art I & II (S) \_\_\_\_\_
- 3D Art I & II (S) \_\_\_\_\_
- Art History \_\_\_\_\_
- Painting \_\_\_\_\_
- Advanced Art \_\_\_\_\_

**FOUR YEAR PLAN**

**FRESHMAN**

- |                        |                        |
|------------------------|------------------------|
| 1st Sem.               | 2nd Sem.               |
| 1. English _____       | 1. English _____       |
| 2. Math _____          | 2. Math _____          |
| 3. Science _____       | 3. Science _____       |
| 4. P.E. / Dr. Ed _____ | 4. P.E. / Dr. Ed _____ |
| 5. Civics _____        | 5. _____               |
| 6. _____               | 6. _____               |
| 7. _____               | 7. _____               |

**SOPHOMORE**

- |                       |                        |
|-----------------------|------------------------|
| 1st Sem.              | 2nd Sem.               |
| 1. English _____      | 1. English _____       |
| 2. Math _____         | 2. Math _____          |
| 3. Science _____      | 3. Science _____       |
| 4. P.E./ Dr. Ed _____ | 4. P.E. / Dr. Ed _____ |
| 5. Health _____       | 5. _____               |
| 6. _____              | 6. _____               |
| 7. _____              | 7. _____               |

**JUNIOR**

- |                     |                     |
|---------------------|---------------------|
| 1st Sem.            | 2nd Sem.            |
| 1. English _____    | 1. English _____    |
| 2. Am History _____ | 2. Am History _____ |
| 3. Math _____       | 3. Math _____       |
| 4. P.E. _____       | 4. P.E. _____       |
| 5. _____            | 5. _____            |
| 6. _____            | 6. _____            |
| 7. _____            | 7. _____            |

**SENIOR**

- |                  |                  |
|------------------|------------------|
| 1st Sem.         | 2nd Sem.         |
| 1. English _____ | 1. English _____ |
| 2. Econ _____    | 2. Gov _____     |
| 3. P.E. _____    | 3. P.E. _____    |
| 4. _____         | 4. _____         |
| 5. _____         | 5. _____         |
| 6. _____         | 6. _____         |
| 7. _____         | 7. _____         |

**CAREER GOALS:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**VOCATIONAL COURSES**

**AGRICULTURE**

- Intro to Agricultural Industry \_\_\_\_\_
- Greenhouse Production \_\_\_\_\_
- Vet Tech \_\_\_\_\_
- Ag Mech & Tech \_\_\_\_\_

**BUSINESS**

- C.E.O. \_\_\_\_\_
- Computer Applications (S) \_\_\_\_\_
- Advanced Computer Apps (S) \_\_\_\_\_
- Business Concepts (S) \_\_\_\_\_
- Business Skills (S) \_\_\_\_\_
- Desktop Publishing (S) \_\_\_\_\_
- Graphic Communications \_\_\_\_\_
- Business Communications \_\_\_\_\_
- Accounting \_\_\_\_\_

**Adobe Illustrator (S)**

- Adobe Photoshop (S) \_\_\_\_\_
- Personal Finance (S) \_\_\_\_\_
- Intro to Computer Science (S) (PLTW) \_\_\_\_\_

**FAMILY & CONSUMER SCIENCES**

- Orient. to Family & Consumer Science \_\_\_\_\_
- Clothing & Textiles I & II \_\_\_\_\_
- Foods and Nutrition \_\_\_\_\_
- Foods Occupations \_\_\_\_\_
- Child Development (S) \_\_\_\_\_
- Child Care Occupations I, II (2 Periods) \_\_\_\_\_
- Adult Living (S) \_\_\_\_\_
- Parenting (S) \_\_\_\_\_
- Living Environment (S) \_\_\_\_\_

**INDUSTRIAL TECHNOLOGY**

**PROJECT LEAD THE WAY**

- Intro to Engineering (PLTW) \_\_\_\_\_
- Principles of Engineering (PLTW) \_\_\_\_\_
- Computer Manufacturing (PLTW) \_\_\_\_\_

**METALS MANUFACTURING**

- Intro to Metals (S) \_\_\_\_\_
- Metals I \_\_\_\_\_
- Metals Manufacturing II \_\_\_\_\_
- Intro CNC Programming (S) \_\_\_\_\_
- Adv. CNC Programming (S) \_\_\_\_\_
- Metal Technology (2 Periods) \_\_\_\_\_

**WOOD MANUFACTURING**

- Intro to Woods (S) \_\_\_\_\_
- Wood Manufacturing I \_\_\_\_\_
- Wood Manufacturing II (2 Periods) \_\_\_\_\_

**ALTERNATES:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_