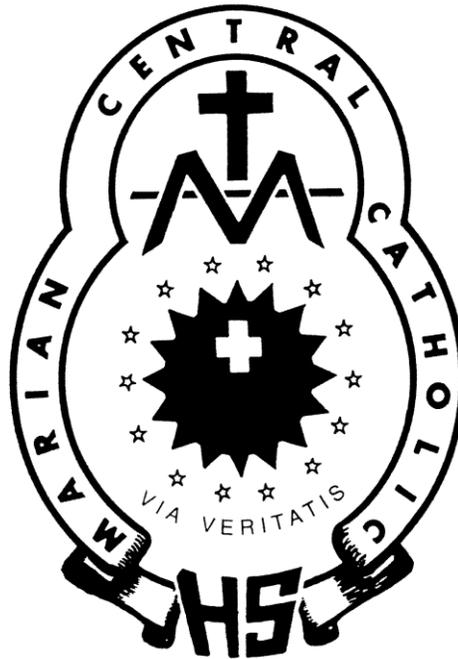


# Marian Central Catholic High School



## Curriculum Guide 2025 - 2026

NURTURING FAITH ~ IMPARTING KNOWLEDGE ~ INSPIRING ACHIEVEMENT

April 15, 2025

**CURRICULUM GUIDE  
2025-2026**

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## **COURSE REGISTRATION**

### **PROCEDURES**

1. Use this guide to help plan your courses for the upcoming 2024 - 25 school year by making tentative course selections.
2. Complete the appropriate planning sheet in this guide and have it with you when you register online.
3. Registration will take place during the month of February.
4. The registration fee is \$325. It is non-refundable. If the fee is paid by February 7, 2025, a discount will be allowed making the amount due \$250.
5. All returning students will register for courses online. After the registration fee has been paid, including any AP fees, a student's course selections will be entered in the scheduling system.
6. Due to limited enrollment in some classes, it is advisable that all registration fees are paid in a timely manner. Should a course fill up prior to a student's registration fee being paid, he/she will be enrolled in an alternate course.
7. Incoming Freshmen are required to make a non-refundable tuition down payment in addition to paying the registration fee.

### **NON-REFUNDABLE FEES**

<u>Registration</u>	\$325.00 (\$250 if paid by February 7, 2025)
<u>Advanced Placement Course</u> (Fee must be paid through Guidance before student is registered in course)	\$110.00
<u>Course Change Fee</u>	\$30.00 (after March 21, 2025)

## **ACADEMIC PROGRAM**

### **INTRODUCTION**

This curriculum guide has been designed to present the educational program that is offered at Marian Central Catholic High School. Marian shares with parents and parishes in the teaching mission of the Church in McHenry County. In light of the school's mission to "welcome all who seek the Truth and strive to live by it" and "form students in mind, body, and soul through our college preparatory curriculum," Marian encourages students to pursue excellence through the curricular opportunities available.

### **SCHEDULE PLANNING**

Concerned participation of parents, students, and school staff is the key to student success in selecting appropriate courses. Parents who take an active role in helping the student make appropriate choices share with the school staff the responsibility of directing the student toward the program that will meet his/her optimum needs. The more informed a student becomes, the better s/he will be able to make decisions concerning the future.

Although returning students will register for courses online, Marian's Guidance Department and Administrators will assist students in making appropriate class schedule choices. When planning a program please note that there are courses in the curriculum that are designed for specific levels of instruction and some that demand a certain background in order to perform at an expected level.

Parents and students should keep a record of the number of credits a student has already earned. The Plus Portals report card indicates the number of cumulative credits the student has earned. Each student is responsible for making their own arrangements to make up required courses that s/he has failed. The student's program should include those courses necessary to meet graduation requirements (24 credits) and post-high school career plans.

### **ADVISORY PROGRAM**

The Advisory Program promotes meaningful relationships between staff and students while providing an avenue for spiritual development, academic/future planning, wellness activities, and charitable works.

### **TIME SCHEDULE**

The educational schedule for an uninterrupted school day is divided into seven 45-minute class periods and one 25-minute period for the Advisory Program.

### **ACADEMIC RESOURCE PROGRAM**

Marian Central Catholic High School has high expectations for all students and provides a challenging course of studies with an emphasis on a rigorous core curriculum. Within this defined curriculum, Marian Central strives to meet the needs of **all** students.

Marian Central's Academic Resource Program serves students who need additional academic support to succeed in a college preparatory environment. Students who are accepted in this program have a diagnosed disability that affects their educational performance. The program provides an increased level of support whereby individual goals are addressed and appropriate accommodations within the general education setting are provided through the development of an Individual Services Plan (ISP). Accommodations are handled through the Marian ISP which is developed using documentation of the student's disability and is provided by the parent. All accommodations are confidential between the family, faculty, and the Director of Academic Resource.

Academic Resource at Marian Central is available for any student with documentation of a need for academic accommodations. Accommodations are classroom-based alterations. They do not change the curriculum, just the way the student accesses it. Students at the lowest level of support may be enrolled in honors or AP classes and have the option of a study hall available. Students with a moderate need for support may be enrolled in all regular or even some smaller sized classes and have a study hall highly recommended. Finally, students with a high need for support may be enrolled in courses where there is a smaller class size, allowing for more individualized attention to the areas of need for each student. These students will also require a mandatory study hall in their schedule.

The goal of Marian Central's Academic Resource Program is to teach students to become self-advocates for their individualized learning needs as they move to the college level. The Academic Resource Program Director is in regular contact with students' content area teachers and parents, as well as the student directly. Families interested in enrolling their students in this program are to contact the Academic Resource Director.

## **ACADEMIC ASSISTANCE**

There are varieties of avenues in which students can receive additional assistance and be successful in their classes.

- Students may obtain help from teachers before or after school by making appointments with individual teachers.
- Opportunities for additional academic support by subject during the daily Advisory period.
- A peer-tutoring program is available for students through the National Honor Society. To access the NHS tutoring program, parents or students are to contact the Guidance Department.
- Online monitoring of grades is available to all families through the school's web-based grading portal.

Marian Central respects the individuality and personal needs of each student, and we do so within our curricular standards. We offer a challenging curriculum that provides students with the opportunity to reach their educational goals. Ultimately, however, it is the student's responsibility to put forth the needed effort in order to achieve success in the school's program.

### **HONORS and AP COURSE EXPECTATION:**

*Students enrolled in any Honors or AP class will be required to maintain at least a C- by the end of the first semester in order to continue at that level. If, at the end of first semester, the student's grade is below a C-, the student may be required to move to an equivalent, non-Honors/non-AP level course for second semester.*

## **HONORS COURSES**

Eligibility for freshman level honors and advanced placement courses is determined by a selection committee based upon a qualifying score on the Marian High School Placement Test, standardized assessment results from middle school, and middle school grades. Each department, based upon work habits and past performance, determines eligibility for sophomore, junior, and senior level honors courses. Enrollment in an honors or an advanced placement course is limited due to the nature of the course. Enrollment in these challenging courses is for mature students who have already developed academic responsibility and solid

work habits. Students in these rigorous courses should expect extensive assignments and must assume responsibility for daily class participation. Only those students whose skills and past academic records are the strongest in relationship to the available candidates are selected for these advanced courses. The following honors courses are available:

- Business: Innovative Design and Entrepreneurial Applications (IDEA)-H
- Engineering: Engineering Design and Development-H, Engineering Coding-H
- English: English 1-H, English 2-H, English 3-H, English 4-H, Speech & Debate-H
- Mathematics: Algebra 1-H, Geometry-H, Algebra 2-H
- Performing Arts: Concert Choir-H, Concert Band-H, Advanced Guitar 3 -H, Advanced Guitar 4 -H, Advanced Piano 3 -H
- Science: Biology 1-H, Chemistry 1-H, Comparative Anatomy & Physiology-H, Chemistry 2-H, Physics-H
- Social Science: US History-H, Psychology-H
- Visual Arts: Art 3-H, Art 4-H
- World Languages: French 3-H, Spanish 3-H, French 4-H, Spanish 4-H
- Theology: Theology 3-H, Theology 4-H

### ADVANCED PLACEMENT COURSES

The Advanced Placement Program provides students with the opportunity to pursue college-level studies while still in secondary school to receive advanced placement or credit or both, upon entering college. Each department, based upon work habits and past performance, determines eligibility for Advanced Placement courses. *Students who enroll in an advanced placement course are expected to take the advanced placement exam.* The College Board charges a fee for each exam taken. As a result, students who enroll in an advanced placement course must pay a non-refundable \$100 course fee, which includes the cost of the exam. The Advanced Placement course fee is to be paid in Guidance at the time of registration in order to be scheduled in the course. Advanced Placement courses are offered in the following:

- English: AP English Language and Composition, AP English Literature and Composition
- Mathematics: AP Pre-Calculus, AP Calculus AB, AP Statistics
- Science: AP Biology, AP Chemistry, AP Physics 1
- Social Sciences: AP Human Geography, AP World History: Modern, AP U.S. History, AP U.S. Government and Politics, AP Macroeconomics, AP Microeconomics

### DUAL CREDIT OPTIONS with MCHENRY COUNTY COLLEGE (\*NEW Courses added!)

Students who enroll in the following Marian courses, will (once appropriate registration is completed) simultaneously be enrolled in McHenry County College (MCC) and have the potential to earn college credits (indicated below) after the successful completion of each course. MCC requires a \$25 dual credit fee to be collected at registration for each dual credit course taken.

- Business: Innovative Design and Entrepreneurial Application (IDEA) H  
  - 1 Full Credit @ Marian, 3 MCC credits
  - Introduction to Business ½ Credit @ Marian, 3 MCC credits
  - Principles of Marketing ½ Credit @ Marian, 3 MCC credits
- Mathematics: \*College Algebra 1 Full Credit @ Marian, 3 MCC credits
- \*College Algebra and Trigonometry 1 Full Credit @ Marian, 5 MCC credits
- \*Calculus with Analytic Geometry I 1 Full Credit @ Marian, 5 MCC credits

Social Sciences: US Government  
AP US Government and Politics  
\*International Relations

½ Credit @ Marian, 3 MCC credits  
½ Credit @ Marian, 3 MCC credits  
1 Full Credit @ Marian, 3 MCC credits

## **MCHENRY COUNTY COLLEGE PARTNERSHIP FOR COLLEGE AND CAREER SUCCESS PROGRAM**

McHenry County College's Partnership for College and Career Success (PCCS) program gives the student a chance to start working on a professional certificate or associate degree while still in high school. Marian offers one high school credit per program, but the grades will not be calculated into the student's overall high school GPA. Students will be allowed to participate in select classes, which, in turn, will require enrollment in a first hour study hall. Once a student completes a PCCS program and we receive official transcripts from MCC, Marian will place the grade(s) earned in each class(es) within the program on a student's high school transcript.

Registration and tuition for these courses are handled directly through MCC. Students provide their own transportation. For more in-depth information on the PCCS program please visit the McHenry County College website at <https://www.mchenry.edu/pccs/> (See page 53 for course offerings)

## **THE STATE OF ILLINOIS and GLOBAL SEAL OF BILITERACY**

During the 2023-24 school year, Marian Central Catholic High School established a pathway for students to earn the Illinois State Seal of Biliteracy and the Global Seal of Biliteracy in recognition of graduating seniors who have demonstrated a high degree of proficiency in one or more World Languages. Students who earn any level of the Seals of Biliteracy will be granted these seals on both the student's diploma and transcript. These Seals represent the attainment of student proficiency in two or more languages and many colleges and universities will waive any world language requirements and/or grant course credit for students who have earned these Seals of Biliteracy. Ranges of Biliteracy recognition include Illinois Commendation, Global Functional Fluency, Illinois Seal of Biliteracy, and Global Working Fluency, all determined by specific proficiency levels.

To qualify for any of the Seals of Biliteracy, a student must demonstrate proficiency in a World Language by:

- Earning a minimum of intermediate low or I-5 on all four domains on the STAMP-4S (Standards-based Measurement of Proficiency) exam. *The following languages can be assessed with the STAMP-4S exam: French, German, Polish, Portuguese, Russian, and Spanish.*

In addition, the student must show proficiency in English through any one of the following:

Earning a 480 or higher on the reading/writing portion of the SAT

**OR**

Earning a 21 or higher on the English portion of the ACT

**OR**

Earning a 4 or 5 on the AP English Language and Composition test

**OR**

Earning a 4.5 overall on the ACCESS test during high school (for English Language Learners only)

*\*For more information, please contact the Guidance Department.*

## **CREDIT RECOVERY COURSES**

Students who must make up credit are required to take credit recovery courses. No more than 2.5 credits through credit recovery and/or other approved makeup course work may be counted toward graduation. If a course is taken as part of credit recovery for a failure earned in a required course, students must successfully pass the course by the end of the semester following the semester in which the failure occurred. (Summer would be considered the semester after spring) The Curriculum Director, prior to enrolling in the course, must approve all credit recovery courses. Marian offers one half point high school credit per recovery course, but the grades will not be calculated into the student's overall high school GPA. *\*Note: The cost to take these courses will be the responsibility of the student's family.*

## **OTHER HIGH SCHOOL LEVEL COURSES**

Students may take additional high school level courses if the course is not offered at Marian, but they must meet with their School Counselor to review options, and the course must be taken through an approved provider. Students who successfully complete these courses will earn course credit, but the grade will not be factored in the student's overall high school GPA. *\*Note: The cost to take these courses will be the responsibility of the student's family.* These credits will not show on the student's Marian Central transcript until the required courses within any given subject area have been completed at Marian.

## **COLLEGE LEVEL INDEPENDENT STUDY COURSES**

Students may take a college-level course online if the student needs a higher-level course that is beyond what Marian Central can offer, on the recommendation of the head of the department at Marian. The student will work directly with their School Counselor to identify a cooperating college or university that offers the desired course, and a study hall will be slotted into the student's schedule to attend the online class. Additional support will be provided to the students by the head of the department at Marian, as needed. Once the student successfully completes the course and after Marian receives the official transcripts from the college, the student will earn course credit with Marian, but the grade will not be factored into the student's overall high school GPA. *\*Note: The cost to take these courses will be the responsibility of the student's family.* These credits will not show on the student's Marian Central transcript until the required courses within any given subject area have been completed at Marian.

## **SCHEDULING CONFLICT WITH COURSE SELECTIONS**

After returning students choose their courses for the following school year and the school's master scheduling has been completed, there may, at times, be a scheduling conflict where two of the chosen courses are offered during the same period, causing the student to have to make other decisions regarding their original course selection. If Marian Central cannot adequately resolve the conflict with the student, there may be the ability to take the conflicted course online. The students will work directly with their School Counselor to identify the online course that best matches the conflicted course, and a study hall will be slotted into the student's schedule to attend the online class. Additional support will be provided to these students by the head of the department at Marian, as needed. Once a student completes the course and we receive official transcripts from the college, Marian will place the grade earned on the student's high school transcript and the student will earn course credit. *Note: The grade will not be factored into the student's overall high school GPA. The cost of taking these courses will be the responsibility of the student's family. \*\*Since the course would be taken due to a schedule conflict, the course will satisfy a Marian graduation requirement (i.e. Spanish I = one credit of Fine Arts).*

## GRADE CLASSIFICATION

A student must have earned six units of credit for sophomore standing, twelve units of credit for junior standing, and eighteen units of credit for senior standing.

## COURSE CHANGES

After the online course registration window in February, final decisions are made as to the number of sections for classes as well as for staffing considerations. The Administration makes decisions at this time so that they can secure the most qualified individuals for the staff for the coming school year. Sometimes because of student enrollment patterns, the student's original course selections may need to be altered, and new course selections made.

Because scheduling information and staff needs are based on the students' original registration, we discourage students from adding or dropping courses. However, a student who wishes to drop or add a class after registration must contact the Guidance Department. After obtaining permission from one of the School Counselors, a course may be dropped or added. **Students who are allowed to change their schedule will be assessed a \$30 processing fee for schedule changes made after March 21, 2025.**

## CHANGING LEVELS

Marian Administration and Staff pride ourselves in ensuring that we guide our students to select courses in which they can be appropriately challenged as well as being successful. If, however, there comes a point in which a significant discrepancy between the student's performance and the expectation for that class is clearly identified, a level change may be considered. A Level Change Form will require a teacher, parent, student, counselor, and department head's signatures and must be approved by the Curriculum Director. A Level Change Form can be found in the Guidance Office. If there is not a consensus in placement recommendation, a conference should be held among parents, teachers, student, and department head to determine appropriate placement. Please understand that changes, if approved, can only occur at the end of a grading period and as the student's schedule permits. Additionally, certain courses have a specified deadline in which to change. No changes will be made to accommodate personal preference.

## PHYSICAL EDUCATION POLICY

All students at Marian Central Catholic High School must be enrolled in PE for every year enrolled in high school (up to 4 years) with the exception of juniors & seniors who may qualify for a graduation requirement waiver.

## PHYSICAL EDUCATION WAIVERS

1. Juniors or seniors may request waivers from PE according to the guidelines defined under PROVISIONS.
2. Students seeking provisions must have all the PE credits required for junior status (i.e.: 2) or senior status (i.e.: 2.5) physical education/health/first aid credits. Students requesting waivers in this case will be asked to complete the waiver request form.
3. Requests must be made on the form entitled "PE Waiver Request Form" available in the Guidance Office.
4. Waiver requests should be completed and turned in during registration.
5. Each request for exemption will be verified, and eligibility will be determined, on a case-by-case basis by the Director of Guidance and approved by the Curriculum Director.
6. Completed forms will be kept on file in the Guidance Office.

7. If a student on a PE waiver drops the course in which the exemption was made, the student will lose his/her physical education waiver and will be placed back into a physical education class.

## PHYSICAL EDUCATION WAIVER PROVISIONS

The following provisions are the only provisions by which junior and senior students will be exempt from physical education courses.

### PROVISION 1 - COLLEGE ADMISSION REQUIREMENTS

A student must waive PE in order to be able to take a course or courses, which are specifically required for admission to college.

### PROVISION 2 - LOCAL GRADUATION REQUIREMENTS

A student who lacks sufficient course credit of one or more courses required by state statute or local school board policies for graduation may request a waiver from physical education. This waiver will allow the student to take seven (7) courses in their schedule and will fulfill Marian Central Catholic High School graduation requirements in the areas for which the student is deficient.

Students who have failed required courses, transferred into the school with deficient credits, or who lack credits due to other causes will be eligible to apply for the above exemption.

## GRADUATION REQUIREMENTS

### CREDITS

Marian Central requires twenty-four (24) credits for graduation:

<b>Credits</b>	<b>Department/Courses</b>
4	English
2	Fine Arts Credits: World Languages, Art, Music, or Theater
3	Mathematics
3	Physical Education/ Health/First Aid
3	Science (Biology included)
3	Social Sciences (Consumer Economics, Government, U. S. History included)
4	Theology
2	Electives
<b>24</b>	<b>Total</b>

The minimum course load for each student each semester is six (6) credits. Each student must earn a passing grade in United States History and a Constitution test covering the Federal and State Constitution, the Declaration of Independence, voting procedures and flag etiquette.

All students must successfully complete six credits per year. All required courses **and** the required number of electives that will count toward graduation must first be taken at Marian Central. Additional elective courses may be taken in an approved program but will not appear on the Marian transcript until the required courses/electives in that content area are completed. Failures in required courses must be repeated and passed in an approved program. (See Credit Recovery Courses, pg. 8) Failures in elective courses may necessitate the student making up the deficient credits in an approved program. A student lacking these requirements will be placed on academic probation and may not be able to continue his/her education at Marian Central.

## **COLLEGE BOUND STUDENTS**

Appropriate academic preparation for college-level studies is important. Students who enter college with a strong college preparatory curriculum have a better chance to succeed academically and are more likely to be admitted to the programs of their choice. Our graduation requirements will meet the majority minimum academic requirements for most four-year colleges and universities. However, to have the most competitive rigor for admission to selective universities, selective colleges and universities suggest the following high school courses:

4 credits of English  
4 credits of Math  
3 or 4 credits of Laboratory Sciences  
3 credits of Social Sciences  
4 credits of the same World Language  
1 credit of Fine Art

\*\* Please note that if you know what you would like to study in college and Marian Central Catholic offers courses in that subject, you should do your best to include those classes as it shows curiosity in the academic realm.

\*\* For a list of admission requirements for a college or university you intend to apply to, please check that school's website for a comprehensive listing.

## **COLLEGE BOUND ATHLETES: NCAA Eligibility**

For those students who plan to play sports at an NCAA Division I or II school, there are specific academic requirements including:

- Graduation from High School
- Earning 16 NCAA-approved core course credits
- Earning a minimum core course GPA

**The Marian Central Catholic High School Curriculum Guide indicates NCAA-approved courses with an asterisk (\*) after the course title.**

For more information, please go to the NCAA Eligibility Center website at [www.eligibilitycenter.org](http://www.eligibilitycenter.org).

## **BUSINESS DEPARTMENT**

### **PHILOSOPHY**

The Business Department is dedicated to the principles and daily classroom instruction of Catholic values and beliefs in the instruction of real-world business applications in Accounting, Business, Marketing and Entrepreneurship.

### **PERSONAL FINANCE**

Grades: 9 10

Length: Semester (offered only Semester 1)

Credit: 0.5

Value Scale: Regular

Prerequisites: None

This is an introductory business course specifically for freshman and sophomore students who want to become familiar with basic business concepts. It covers practical, everyday buying decisions that teens must make, ie: food, clothing, transportation, and entertainment - as well as introducing them to the basics of banking. The course explores how local, state, and federal taxes work, and provides basic knowledge on auto, health, and homeowner's insurance.

### **FUNDAMENTALS OF BUSINESS**

Grades: 9 10

Length: Semester (offered only Semester 2)

Credit: 0.5

Value Scale: Regular

Prerequisites: None

This course is ideal for preparing freshmen and sophomores who may be interested in taking the dual credit *Introduction to Business/Marketing Principles* classes. Using real-time examples provided from the day's business news, the class makes sense of economic indicators like the stock market, unemployment, consumer price index, energy, inflation, and major retailers' quarterly earnings. The course's emphasis is on how short- and long-term problems can impact business in the local, national, and global arena.

### **ACCOUNTING 1**

Grades: 10 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: None

This course addresses the needs of students who want a foundation in basic accounting. The course emphasizes the accounting procedures for service and merchandising businesses and the use of the general ledger approach. Also covered are payroll and banking procedures, accruals and deferrals, and an overview of income taxes.

### **ACCOUNTING 2**

Grades: 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: C or higher in Accounting 1 each semester

This course provides an in-depth study of accounting methods for a sole proprietorship, partnership, and corporation. The accounting methods of budgeting, managerial decision-making, and formal financial statement analysis are introduced to the students. In addition, students are required to complete a computerized simulation set using Excel software.

**INTRODUCTION TO BUSINESS (Requires \$25 MCC Dual Credit Course Fee)**  
**(Dual Credit Class with McHenry County College - MCC)**

Grades: 11 12                      Length: Semester (offered only Semester 1)  
Credit: 0.5                              Value Scale: Regular  
Prerequisites: None                      *MCC: BUS150 for 3 credits*

This course is designed to introduce students to the basic concepts and functions of business, and how the buying and selling of goods and services shapes the very essence of our economy. Students will explore basic economic concepts and study the business cycle. Students will learn about business ethics and social responsibility, becoming an entrepreneur, and how to design a business plan. Students will examine business ownership and operations, discuss the role of e-commerce, and examine its influence on the global marketplace. Students will also do a comparison/contrast of government as both a regulator and provider, and examine money and financial institutions. Finally, students will end with an overview of the marketing and advertising functions.

**PRINCIPLES OF MARKETING (Requires \$25 MCC Dual Credit Course Fee)**  
**(Dual Credit Class with McHenry County College - MCC)**

Grades: 11 12                      Length: Semester (Offered only Semester 2)  
Credit: 0.5                              Value Scale: Regular  
Prerequisites: None                      *MCC: MKT110 for 3 credits*

This business marketing course is designed to help students learn the foundations of business marketing, and how marketers use behavioral- and data-driven decisions to promote the products and services that we purchase daily. For students, it is vital to know how marketing concepts work in business and global economies. This course explores the basics of marketing principles, concepts and themes. By better understanding ourselves as consumers in the marketplace, students can learn how marketing drives the economic engine that satisfies people's wants and needs.

**INNOVATIVE DESIGN AND ENTREPRENEURIAL APPLICATIONS-H (IDEA-H)**  
**(Requires \$25 MCC Dual Credit Course Fee)**  
**(Dual Credit Class with McHenry County College - MCC)**

Grades: 11 12                      Length: Year  
Credit: 1                                  Value Scale: Honors  
*MCC: BUS160 for 3 credits*

Prerequisites: Students must have taken at least one previous business course

**OR**

Student can take Principles of Marketing/Intro to Business concurrently with IDEA  
**AND** with Business Department Chair recommendation

This course is designed to inspire students to become entrepreneurs. Students will be interacting with a variety of community and business experts as they create and develop their own product or service. Students will be developing a business model, experimenting, and testing the model throughout the year. They will also learn and apply business concepts such as designing and constructing their product/service, marketing, accounting, and understanding the legal aspects of running a business. Students hone their collaboration skills as they work in student teams, learning directly from business mentors and coaches from the local community. Commitment to full year & lab fee may be required.

## **ENGINEERING DEPARTMENT**

### **ENGINEERING: DESIGN and DEVELOPMENT - HONORS**

*\*Currently only offered alternate years to Coding.*

Grade: 11 12                      Length: Year  
Credit: 1                          Value Scale: Honors  
Prerequisites: B or higher in previous math course each semester

This course offers students an introduction to various aspects of engineering. The course assumes no previous knowledge of engineering. The course covers the foundational components of systems engineering, the concept development stage every viable system must go through, and the process steps of the engineering development stage. Students will employ engineering and scientific concepts in the solution of engineering design problems. In addition, students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

### **ENGINEERING: CODING – HONORS**

*\*Currently only offered alternate years to Design and Development.*

Grade: 11 12                      Length: Year  
Credit: 1                          Value Scale: Honors  
Prerequisites: B or higher in previous math course each semester and Departmental approval.

This course will cover programming techniques using the JAVA language. There is no previous programming experience required. You will learn how to code using the JAVA language using OOP. During this course, you will understand variables, documentation, loops, conditional statements, classes, methods, arrays, inheritance, exception handling, files, recursion, and input output. In addition to this, you will also learn how to write apps.

## ENGLISH DEPARTMENT

### PHILOSOPHY

The English program is designed to improve the students' awareness of the important role that the English language and its literature play in their lives and of the various applications in public and private discourse. The English program emphasizes the development of critical reading skills and the ability to express and communicate ideas. It is designed to provide experiences and activities that will help the student become a discriminating reader, an effective speaker, and a skillful writer.

### ENGLISH SEQUENCES

Four full credits/years of English are required.

Pattern	Grade 9	Grade 10	Grade 11	Grade 12
1	English 1A	English 2A English 2	English 3A English 3	English 4
2	English 1	English 2	English 3	English 4
3	English 1 H	English 2 H	English 3 H AP Lang	English 4 H AP Lit AP Lang
<b>Electives</b>				Journalism Speech & Comp Speech & Debate H

### ENGLISH 1A\*

Grade: 9

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: None

This freshman English course is designed to provide students with skills necessary for success in future English courses. Students will receive instruction in reading skills, grammar, vocabulary study, writing, literature study, and note taking. A smaller class size will allow for more individualized attention to the areas of need for each student. *\*Students enrolled in any "A-level" classes are strongly encouraged to take a study hall their freshman year.*

### ENGLISH 1\*

Grade: 9

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: None

This course presents a study of literary types with an emphasis on short stories, novels, plays and poetry. Students develop an awareness of literary terminology and an appreciation of various writing styles and intents. Writing assignments of varied purposes and lengths will be given. Vocabulary study and grammar skills are integrated into the course.



### **ENGLISH 3A\***

Grade: 11                                      Length: Year  
Credit: 1                                        Value Scale: Regular  
Prerequisites: English 2A or English 2

This course is designed to provide students with skills necessary for success in future English courses. Students will receive instruction in reading skills, grammar, vocabulary study, and writing and note taking for ACT preparation. Course includes a literature study with a focus on British literature. A smaller class size will allow for more individualized attention to the areas of need for each student. The successful completion of both the overall process and final research paper essay holds significant weight in a student passing this course.

### **ENGLISH 3\***

Grade: 11                                      Length: Year  
Credit: 1                                        Value Scale: Regular  
Prerequisites: English 2A with a 97% each semester **AND** Departmental determination or English 2

This course presents a survey of British literature as the basis for study and discussion. A vocabulary program and ACT test preparation are part of the course requirements. A variety of writing assignments will be assigned throughout the year. The successful completion of both the overall process and final research paper essay holds significant weight in a student passing this course.

### **ENGLISH 3 - HONORS\***

Grade: 11                                      Length: Year  
Credit: 1                                        Value: Honors  
Prerequisites: B+ (87%) or above in English 2 Honors each semester **and** Departmental determination;  
**or**  
A (97%) or above each semester in English 2 **and** Departmental determination

*\*If the student does not meet the grade requirement, before spring break, the student must submit an appeal form and submit an in-class English essay and a research paper (if applicable, depending on grade level) to the department chair.*

This course presents a survey of British literature organized to develop critical reading and group discussion skills. In the expository writing phase, skills in writing paragraphs and research techniques are emphasized. Directed outside readings are assigned during each quarter. Vocabulary study and grammar knowledge are emphasized, as they relate to preparations for the ACT test required of all juniors. The successful completion of both the overall process and final research paper essay holds significant weight in a student passing this course.

### **ENGLISH 4\***

Grade: 12                                      Length: Year  
Credit: 1                                        Value Scale: Regular  
Prerequisites: English 3 or English 3A

This course presents a thematic approach to contemporary and classic literature across cultures and genres, including non-fiction, short stories, poetry, speeches, graphic novel, film, novel, and drama for study and

discussion. Formal writing assignments of varied styles and lengths will also be required throughout the year to reinforce the writing skills learned in earlier courses.

#### **ENGLISH 4 – HONORS\***

Grade: 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisite: B+ (87%) or above in English 3 Honors each semester **and** Departmental determination;  
**or**  
A (97%) or above in English 3 each semester **and** Departmental determination

The purpose of this course is to help students “write effectively and confidently in their college courses across the curriculum and in their professional and personal lives.” The students are expected to read critically, think analytically, and communicate clearly in both writing and speech. This course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze rhetorical elements and their effects in non-fiction texts, including images as forms of text, from many disciplines and historical periods.

#### **ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION\***

Grade: 11 12

Length: Year

Credit: 1

Value Scale: AP

Prerequisite: A (97%) or above in English 2 Honors for each semester **and** Departmental determination;  
B+ (87%) or above in English 3 Honors each semester **and** Departmental determination;  
**or**  
A (97%) or above in English 3 each semester **and** Departmental determination

The purpose of this course, as stated by the College Board, is to help students “write effectively and confidently in their college courses across the curriculum and in their professional and personal lives.” Students prepare for the AP English Language and Composition exam and may earn college credit. The course is organized according to the requirements and guidelines of the current AP English Course Description, and, therefore, students are expected to read critically, think analytically, and communicate clearly in both writing and speech. The AP Language & Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze rhetorical elements and their effects in non-fiction texts, including images as forms of text, from many disciplines and historical periods.

#### **ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION\***

Grade: 12

Length: Year

Credit: 1

Value Scale: AP

Prerequisites: A (97%) or above in English 3 Honors each semester **and** Departmental determination;  
**or**  
B+ (87%) or above in AP Language each semester **and** Departmental determination

This course includes readings in British, American, and World Literature. Students prepare for the AP English Literature and Composition exam and may earn college credit. Preparing for the Advanced Placement Examination in English is a cooperative venture between the students and the teacher. Students read widely

and reflect on their reading through extensive discussion, writing and analysis. The teacher complements the efforts of the students by leading discussions and by providing assignments that help students develop critical standards in their reading and writing.

## ENGLISH ELECTIVES

### JOURNALISM (NEW)

Grade: 10; 11; 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: C or higher in all previous English courses & Departmental Determination

This elective English course will provide students with the skills necessary to publish the yearbook and write/publish articles for the school. Students will learn journalistic writing, basic photography skills, computer layout techniques, headline writing, and copy-editing. Students will also discuss other various types of media, including film, web, television, and advertising, time permitting. In addition to class work, students will be required to attend after school meetings and activities to meet publication deadlines for the yearbook.

- Must commit to attending a two-day introductory seminar prior to start of school
- Must commit to being available after graduation for yearbook completion

**\* Students who receive a D or lower for the first semester will be dropped from the course for the second semester due to increased workload for both the yearbook and alumni article deadlines for the remainder of the year.**

**\* Students in grades 11 and 12 may repeat this course at an Honors level ONLY with leadership expectations and approval from the instructor. Students must maintain a B or better in order to qualify to repeat this course.**

### SPEECH & COMPOSITION

Grade: 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Successful completion of English 3, English 3H, or AP Lang

In this course, students will read and analyze texts to support their examination and understanding of the fundamental principles and skills of public speaking. Students will develop communication skills in listening, speech criticism, audience analysis, and writing, and will be required to use these skills in public speaking, rhetoric, and interpretation.

Instruction emphasizes organization, selection, and arrangement of material, as well as use of transitions and rhetorical choices in writing and delivering speeches. The course will also focus on effective delivery techniques (body language, voice, diction, etc.) for presenting a variety of styles of speeches, including (but not limited to): Extemporaneous Speaking, Impromptu Speaking, Original Oratory, and Informative Speaking. Other speaking opportunities include Dramatic Interpretation, Humorous Interpretation, Prose Interpretation, Duet Interpretation (dramatic or humorous), Special Occasion Speeches (Eulogy, Commencement Speech, Award Presentation, Acceptance Speech, Dedication Speech, etc.), Extemporaneous Commentary, Radio Broadcasting, Storytelling, Interviewing, and others.

## **SPEECH & DEBATE - HONORS**

Grade: 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: A (97%) or above in English 3 each semester **and** Departmental determination;  
**or**  
Successful completion of English 3 Honors or AP Lang

Along with developing all of the skills of the Speech and Composition course, students will also apply supporting material, methods of research, critical thinking, logical argumentation, parliamentary procedures, and effective language choices to learn and enhance debate techniques. Students will structure ideas and arguments in their speeches in a sustained, persuasive, and sophisticated way, supporting their arguments with precise and relevant examples. Students will identify the impact of choices that speakers make (their own, their peers, and published items) and analyze the way in which clarity of meaning is affected by these choices (patterns of organization, syntax, diction, ambiguities, satire, etc.). They will then apply these skills in formal debates, as they learn to argue both sides of an argument using formal debate procedures.

## MATHEMATICS DEPARTMENT

### PHILOSOPHY

The philosophy of the Mathematics Department is to provide all students with a challenging course of study that will build basic skills and develop a feeling for and an appreciation of the mathematical sciences. The department recognizes individual differences in both background and ability and offers its course selections accordingly.

### MATHEMATICS SEQUENCES

Three full credits in Mathematics are required.

Pattern	Grade 9	Grade 10	Grade 11	Grade 12
1	Algebra 1A	Geometry A	Algebra 2	DC College Algebra DC College Algebra & Trigonometry
2	Algebra 1	Geometry A Geometry	Algebra 2	DC College Algebra DC College Algebra & Trigonometry
3	Algebra 1 H	Geometry H	Algebra 2 H	AP/DC College Algebra & Trigonometry AP/DC Calculus with Analytic Geometry I AP Statistics
4	Geometry H	Algebra 2H	DC College Algebra & Trigonometry AP/DC College Algebra & Trigonometry AP Statistics	AP/DC Calculus with Analytic Geometry I AP Statistics
5	Algebra 2H	AP/DC College Algebra & Trigonometry AP Statistics	AP/DC Calculus with Analytic Geometry I AP Statistics	AP/DC Calculus with Analytic Geometry I AP Statistics <i>**Calculus 2 (College option)</i>
6	AP/DC College Algebra & Trigonometry	AP Statistics	AP/DC Calculus with Analytic Geometry I	<i>**Calculus 2 (College option)</i>

**\*Only seniors are allowed to take two Mathematics courses concurrently.**

**\*\*Whether taking Calculus 2 at McHenry County College or another online college (to be determined in consultation with school counselors) students must earn a 3 or better on the AP Calc AB test (taken at Marian each May after taking the course) or pass the [College Level Examination Program \(CLEP\) test](#) (taken at McHenry County College). Please see more information on Dual Enrollment on pg. 58.**

### CALCULATOR POLICY

For all regular and honors sections, [Texas Instruments model TI-84](#) is required. It may be any brand, but the TI-84 is used by the instructor for classroom presentations. **Students are preparing for the ACT in all levels of mathematics.**

**ALGEBRA 1 A\***

Grade: 9

Length: Year

Credit: 1

Value Scale: Regular

Prerequisite: None

Algebra 1 Essentials teaches the basic concepts of Algebra 1. Topics covered include equations, inequalities, polynomials, algebraic functions, systems of equations, graphing on the number line and coordinate plane, radical expressions, verbal problems, factoring of polynomials, operations and applications with rational expressions, graphing lines, systems of equations, and operations with polynomials. A smaller class size will allow for more individualized attention to the areas of need for each student. *\*Students enrolled in any "A-level" classes are strongly encouraged to take a study hall their freshman year.*

**ALGEBRA 1\***

Grade: 9

Length: Year

Credit: 1

Value Scale: Regular

Prerequisite: None

This is a standard beginning course in Algebra. Topics covered include equations, inequalities, polynomials, algebraic functions, systems of equations, graphing on the number line and coordinate plane, radical expressions verbal problems, factoring of polynomials, operations and applications with rational expressions, graphing lines, systems of equations, and operations with polynomials.

**ALGEBRA 1-HONORS\***

Grade: 9

Length: Year

Credit: 1

Value Scale: Honors

Prerequisite: Departmental determination may include:  
An A each grading period of eighth grade math  
Qualifying score on the Marian placement test  
Qualifying levels on 8th Data Collection

The material taught in the Algebra 1 course will also be taught in this class with the pace being more accelerated and the expectations greater. The problems covered are more difficult. Additional topics such as quadratic functions and equations and rational exponents are also topics in this course.

**GEOMETRY A\***

Grades: 10

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Algebra 1A or Algebra 1

The material covered in this course is based on Euclidean Geometry. Some of the topics are segments and angles, congruent triangles, parallel lines, quadrilaterals, similarity, circles, area, surface area and volume. Emphasis will be placed on deductive reasoning and writing deductive proofs. A smaller class size will allow for more individualized attention to the areas of need for each student.



## **COLLEGE ALGEBRA (NEW)**

**Dual Credit Class with McHenry County College with \$25 Course Fee**

Grades: 12

Length: Year

Credit: 1

Value Scale: Regular

*MCC: MAT161 for 3 credits*

Prerequisites: Average grade of C+ to C- each semester of Geometry & Algebra 2

**OR** Departmental determination.

College Algebra covers solutions of equations and inequalities, exponential and logarithmic functions, polynomial functions, graphs. This course is primarily intended for students who want a fourth year of math in preparation for college. *\*Note: This course is only the first ½ of a standard pre-calculus course, stretched over an entire year to ensure understanding.*

## **COLLEGE ALGEBRA and TRIGONOMETRY\* (NEW ~ Formerly PreCalculus)**

**Dual Credit Class with McHenry County College with \$25 Course Fee**

Grades: 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Minimum grade of C+ each semester of Geometry & Algebra 2

**OR** Departmental determination.

College Algebra and Trigonometry will cover equations and inequalities, exponential and logarithmic functions, trigonometric functions, solution of triangles, identities, graphs, and topics in analytic geometry. The topics covered will be Functions, Equations, Inequalities, Non-linear systems, Trigonometry, and Conic sections.

## **AP PRE-CALCULUS/COLLEGE ALGEBRA and TRIGONOMETRY Honors\* (NEW)**

**Dual Credit Class with McHenry County College with \$25 Course Fee**

Grades: 10 11 12

Length: Year

Credit: 1

Value Scale: AP

*MCC: MAT165 for 5 credits*

Prerequisites: Minimum grade of a B both semesters in Algebra 2H

**OR** Minimum grade of an A both semesters in Algebra 2

**OR** Departmental determination.

College Algebra and Trigonometry Honors will cover equations and inequalities, exponential and logarithmic functions, trigonometric functions, solution of triangles, identities, graphs, and topics in analytic geometry. The topics covered will include Functions, Equations, Inequalities, Non-linear systems, Trigonometry, Conic sections, Exponential, Logarithmic, Sequences, Probability, and Counting Theory.

### **ADVANCED PLACEMENT STATISTICS\***

Grades: 10 11 12

Length: Year

Credit: 1

Value Scale: AP

Prerequisites: A each semester in Algebra 2 Honors OR B or higher each semester in Precalculus  
**OR** Departmental determination

This course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students prepare for the AP Statistics exam and may earn college credit. Topics introduced the exploratory analysis of data and numerical techniques to study patterns, methods of valid data collection, probability as the tool for anticipating what distributions of data should look like and confirming models through statistical inference. Students will prepare for the AP exam and should assume considerable responsibility for the extensive work that this course demands.

### **AP CALCULUS AB/CALCULUS with ANALYTIC GEOMETRY I\* (NEW)**

**Dual Credit Class with McHenry County College with \$25 Course Fee**

Grades: 11 12

Length: Year

Credit: 1

Value Scale: AP

*MCC: MAT175 for 5 credits*

Prerequisites: Successful completion of AP Statistics  
**OR** A or higher each semester in Algebra 2 Honors  
**OR** B or higher each semester in AP/Pre-Calculus/College Algebra w/Trig  
**OR** Departmental determination  
**OR** A score of 550 or above on the math portion of the PSAT  
**OR** A score of 28 or above on the math portion of the ACT

This course is a rigorous exploration of analytical geometry and college calculus specifically designed to provide students with advanced placement opportunities in college mathematics curriculums. Students prepare for the AP Calculus exam and may earn college credit. This class is structured for students that may have college majors in mathematics, the physical sciences, engineering, and similar disciplines. Topics to be studied include limits, derivatives, integrals, and their applications. Additional topics include the Cartesian plane, the mean value theorem, anti-derivatives, the fundamental theorem of calculus, elementary integration, and applications. Students will also prepare for the AP exam and should assume considerable responsibility for the extensive work that this course demands.

## MUSIC DEPARTMENT

### PHILOSOPHY

The goal of the Music Department is to develop self-sufficient, independent musicians. By careful instruction, the students must be able to call upon their own sensitivity to create the finest sound possible. Desire, drive, determination, dedication, and self-discipline are important qualities to be developed so those students can experience the satisfaction of performing music well. Individual preparation of music at home is a part of the routine to achieve fine musicianship and rewarding performances. To achieve these goals the music department has developed an aesthetically structured environment with enough flexibility to maintain an individualistic approach to education in music. By adhering to the above, all students will experience success.

### BEGINNING GUITAR - LEVEL 1

Grades: 9 10 11 12      Length: Year  
Credit: 1      Value Scale: Regular  
Prerequisites: None

This course is designed for students with no previous guitar experience. Students will receive guidance and direction in solving problems related to playing the guitar at the beginning level and will learn many of the different styles, skills, and techniques required to become a successful guitarist. Areas of concentration include correct posture, note reading, aural skills, flat-picking, rhythmic patterns, chord study, finger-picking style, musical forms, improvising and performing experiences. *Students will be required to provide their own instrument.*

### INTERMEDIATE GUITAR - LEVEL 2

Grades: 9 10 11 12      Length: Year  
Credit: 1      Value Scale: Regular  
Prerequisites: Beginning Guitar Level 1 or Audition

This one-year course is designed for students with moderate guitar experience. Students will receive guidance and direction in solving problems related to playing the guitar at the intermediate level and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include full fretboard technique/knowledge, note reading, aural skills, flat-picking, rhythmic patterns, chord study, finger-picking styles, musical forms, improvisation and performing experiences. *Students will be required to provide their own instrument.*

### ADVANCED GUITAR Honors - LEVEL 3

Grades: 11 12      Length: Year  
Credit: 1      Value Scale: Honors  
Prerequisites: Intermediate Guitar Level 2 or Audition

This one-year course is designed for students looking to continue with guitar experience. Students will receive guidance and direction in solving problems related to playing the guitar will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include full fretboard technique/knowledge, note reading, aural skills, flat-picking, rhythmic patterns, chord study, fingerpicking styles, musical forms, improvisation and performing experiences. *Students will be required to provide their own instrument.*

### **ADVANCED GUITAR HONORS - LEVEL 4**

Grades: 12                      Length: Year  
Credit: 1                        Value Scale: Honors  
Prerequisites: Advanced Guitar Level 3 or Audition

This one-year course is designed for students looking to continue with guitar experience at the highest level. Students will receive guidance and direction in solving problems related to playing the guitar and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include full fretboard technique/knowledge, note reading, aural skills, flat-picking, rhythmic patterns, chord study, fingerpicking styles, musical forms, improvisation and performing experiences. *Students will be required to provide their own instrument.*

### **BEGINNING PIANO - LEVEL 1**

Grades: 9 10 11 12            Length: Year  
Credit: 1                        Value Scale: Regular  
Prerequisites: None

This course is designed to stimulate student growth in piano through the use of performance, basic theory, listening to piano performance and history of piano performance. Students will be learning pieces based on their previous level of experience. All of the students will also complete work in music theory and history to teach them the knowledge necessary to form a lifelong enjoyment of music.

### **INTERMEDIATE PIANO - LEVEL 2**

Grades: 9 10 11 12            Length: Year  
Credit: 1                        Value Scale: Regular  
Prerequisites: Beginning Piano I or Audition

This course is designed to stimulate student growth in piano through the use of performance, intermediate theory, listening to piano performance and history of piano performance. Students will be learning pieces based on their previous level of experience. Students will also complete work in music theory through analysis and performance. Students will also study history to teach them the knowledge necessary to form a lifelong enjoyment of music.

### **ADVANCED PIANO HONORS - LEVEL 3 (NEW)**

Grades: 10 11 12              Length: Year  
Credit: 1                        Value Scale: Honors  
Prerequisites: Intermediate Piano II

This course is designed to continue student growth in piano through the use of performance, advanced theory, listening to piano performance and history of piano performance. Students will be learning more difficult pieces based on their previous level of experience. Students will also complete work in advanced music theory through analysis and performance. Students will also study history to teach them the knowledge necessary to form a lifelong enjoyment of music.

**ADVISORY BAND**

Grades: 9 10 11 12            Length: Year  
 Credit: 0.5                      Value Scale: Regular  
 Prerequisites:            Instructor Recommendation.

This course is designed for students to continue in band who are not able to fit band into their daily schedules. Advisory Band meets 2-3 times a week during Advisory. Advisory Band plays two major concerts a year and participates in some pep band activities. *\*\*Advisory Band is a back-up, not a replacement for Concert Band.*

**CONCERT BAND**

Grades: 9 10 11 12            Length: Year  
 Credit: 1                        Value Scale: Regular  
 Prerequisites:            Background in and ability to read instrumental music, preferred  
                                   Open enrollment for incoming Freshmen

The members of this course make up the Concert, Pep and Jazz Bands. The Concert Band meets daily and performs two major concerts during the school year. All members enrolled in the instrumental music program will have the opportunity to perform varied styles of music. Emphasis will be placed on balance, blend, intonation, counting, scales, proper tone production, breath support, and sight-reading. All members of the Concert Band must participate in the Pep Band. The Pep Band performs for all home varsity football games, as well as some boys' basketball, girls' basketball, and volleyball games. Participation in the Illinois High School Association (I.H.S.A.) Spring Solo and Ensemble Festival is strongly encouraged. Upon completion of his/her term in band, each student will possess a more in-depth knowledge of band literature, skill in music reading and interpretation, and practical sight-reading skills.

**CONCERT BAND – HONORS**

Grades: 10 11 12            Length: Year  
 Credit: 1                        Value Scale: Honors  
 Prerequisites: Sophomores: enrolled in band freshmen year  
                                   Juniors: enrolled in band for both freshman and sophomore years  
                                   Seniors: enrolled in band for freshman, sophomore and junior years  
                                   B or higher in Band each semester

In addition to the regular course requirements for advanced band, a musical project will be required each quarter. Attendance at approved outside-of-school musical performances will also be required. Specific requirements to be provided by the instructor.

**CONCERT CHOIR**

Grades: 9 10 11 12            Length: Year  
 Credit: 1                        Value Scale: Regular  
 Prerequisites: Background in vocal music is helpful, but not required  
                                   Open enrollment for incoming Freshmen

The members of this group make up the Concert Choir. It meets daily and performs two major concerts during the year. All members enrolled in the vocal music program will have the opportunity to perform varied styles of music. Emphasis will be placed on balance, blend, intonation, counting, scales, proper tone production, breath support, proper diction, and sight-reading. All members of the Concert Choir will also participate in the Mass Choir. This group will perform for all of the All-School Masses. Marian also offers Jazz Choir. The Jazz Choir performs pop music with the addition of choreography. Members of this group are chosen by audition. The Madrigal Singers perform music of an Old English flavor with the addition of period costumes. Both of these groups practice before or after school. Membership is also by audition. Participation in the Illinois High School Association (I.H.S.A.) Spring Solo and Ensemble Festival is strongly encouraged. Upon completion of his/her term in chorus, each student will possess a more in-depth knowledge of choral literature, skill in music reading and interpretation, and practical sight-reading skills.

### **CONCERT CHOIR - HONORS**

Grades: 10 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: Audition May be required upon request. Strong background in vocal music.

Ability to read music. Enrolled in chorus for all previous school years. B or higher in Chorus each semester

This is a logical progression from concert choir. Members of this group will perform music of a higher degree of difficulty compared to the regular level choir. Much of this music will be performed a cappella and will cover a variety of styles. The group will also perform at the two major concerts during the year. This group will also join the concert choir for the All-School Masses. Members will also be able to audition for jazz choir and madrigals. Participation in the IHSA solo and ensemble contest is strongly encouraged, as is auditioning for IMEA. In addition to the regular advanced chorus requirements, a musical project will be required each quarter. Attendance at approved outside-of-school musical performances will also be required. Specific requirements to be provided by the instructor.

## **PHYSICAL EDUCATION DEPARTMENT**

### **PHILOSOPHY**

The Physical Education Department is designed as an integral part of the total education at Marian with the goal of helping students become committed toward achieving high levels of health, fitness training, and emergency preparedness. The Physical Education Department promotes physical fitness as a lifetime activity.

### **PHYSICAL EDUCATION 1/HEALTH**

Grade: 9                                      Length: Year  
Credit: 1                                      Value Scale: Regular  
Prerequisites: None

The focus of this course is on personal fitness. Through various activities in the gym, weight room and in health classes, students will be able to understand concepts related to their personal fitness. Opportunities for participation in various team sports and the use of Heart Rate Monitors will also be provided. The health portion of the course is designed to help students learn the value of living a healthy lifestyle both physically and mentally. Material covered in this course will include fitness and wellness, substance abuse, and vaping.

### **PHYSICAL EDUCATION 2/FIRST AID**

Grade: 10                                      Length: Year  
Credit: 1                                      Value Scale: Regular  
Prerequisites: Physical Education 1/Health

This course reinforces the basic skills learned in freshman physical education. The sophomore physical education course teaches student more advanced skills necessary for many team and individual sports. The use of the weight room and Heart Rate monitors will also be part of the sophomore program. The First Aid unit provides students with the knowledge and skills, including being proficient in using CPR and AED to cope in an emergency medical situation until professional help arrives.

### **PHYSICAL EDUCATION 3**

Grade: 11                                      Length: Semester  
Credit: 0.5                                      Value Scale: Regular  
Prerequisites: Physical Education 2/First Aid

This co-educational course reinforces the skills learned in freshman and sophomore physical education. Students will continue to expand their knowledge of fitness concepts while participating in activities to maintain and improve their fitness levels. The emphasis of this course is on lifetime activities.

### **PHYSICAL EDUCATION 4**

Grade: 12                                      Length: Semester  
Credit: 0.5                                      Value Scale: Regular  
Prerequisites: Physical Education 3 or Junior PE waiver

This course not only reinforces the skills mastered in freshman, sophomore, and junior physical education, but also provides students with the opportunity to participate in individual sports and weight room activities. The culminating project is for students to develop a personal fitness program that they can use when they graduate from Marian.

**FITNESS FOR LIFE**

Grade: 12

Length: Semester

Credit: 0.5

Value Scale: Regular

Prerequisites: Physical Education 3 or Junior PE waiver AND Departmental Determination

In this course, various training methods will be used to improve individual strength and flexibility. This is an activity course designed to help all students (athletic and non-athletic) gain an understanding of how to develop overall physical fitness including cardiovascular fitness, muscular strength, endurance, coordination, flexibility, and relaxation techniques. Students will learn how to design a personal fitness plan that can be utilized after high school. Maximum enrollment 25 students per class)

## SCIENCE DEPARTMENT

### PHILOSOPHY

The philosophy of the Marian Central Science Department encompasses two aims. One aim is to help students become acquainted with scientific facts and with the general ideas that are built upon them. The second aim is to understand what science is, to feel its spirit, to appreciate its methods and to recognize its limitations. Upon this understanding depends one's ability to participate intelligently in the life of our scientific age. In each course, we will emphasize the analytical science skills necessary to succeed on standardized tests and in college.

### SCIENCE SEQUENCES

Three full credits of science are required; one of which must be Biology.

Pattern	Grade 9	Grade 10	Grade 11	Grade 12
1	Integrated Science	Biology 1	Intro to Chem/Physics Chemistry 1	Chemistry 1 GeoScience Space Sciences Conceptual Physics Physics - H *Comparative Anatomy H
2	Biology 1	Intro to Chem/Physics Chemistry 1	Chemistry 1 GeoScience Space Sciences Conceptual Physics Physics - H *Comparative Anatomy H	GeoScience Space Sciences Conceptual Physics Physics - H *Comparative Anatomy H
3	Biology 1 H	Chemistry 1- H	GeoScience Space Sciences Conceptual Physics Physics - H Comparative Anatomy H Chemistry 2 H AP Chemistry AP Biology AP Physics 1	GeoScience Space Sciences Conceptual Physics Physics - H Comparative Anatomy H Chemistry 2 H AP Chemistry AP Biology AP Physics 1 **Calculus-Based Physics (College option)

\*If prerequisites are met and with teacher recommendation

\*\*Whether taking Calculus-Based Physics at McHenry County College or another online college (to be determined in consultation with school counselor) students must earn a 3 or better on the AP Calc AB test (taken at Marian each May after taking the course) or pass the [College Level Examination Program \(CLEP\) test](#) (taken at McHenry County College) AND be concurrently enrolled in Calculus 2 at the college. Please see more information on Dual Enrollment on pg. 58.

### **INTEGRATED SCIENCE\***

Grade: 9                                      Length: Year  
Credit: 1                                      Value Scale: Regular  
Prerequisites: Concurrent enrollment in Algebra 1 A

This course will emphasize the development of basic scientific skills and concepts, providing an introduction to the four major areas of science – Biology, Chemistry, Earth Science, and Physics. In addition, lab safety, scientific vocabulary, science-based mathematics, and scientific reading comprehension and analysis of lab reports will be emphasized to assist students in furthering their science education. Integrated Science provides students with opportunities to develop the knowledge, skills, and strategies necessary for future success in more rigorous science courses throughout their high school career.

### **BIOLOGY 1\***

Grades: 9 10                                      Length: Year  
Credit: 1                                      Value Scale: Regular  
Prerequisites: Freshman - Concurrent Enrollment in Algebra 1  
Sophomores –Integrated Science (General Science)

This lab and lecture course is designed to develop an understanding of the (1) nature of scientific inquiry, (2) limitations of science, (3) diversity of life and interrelationships among organisms, (4) beauty and drama of the living world, (5) biological bases of problems in medicine, public health, agriculture, and conservation, (6) historical developments of biological concepts, and (7) an understanding of our place in nature. Graphing, analysis of graphs and data, and analysis of experimental design will help build the skills necessary for success on the ACT and other standardized tests.

### **BIOLOGY 1–HONORS\***

Grades: 9                                      Length: Year  
Credit: 1                                      Value Scale: Honors  
Prerequisites: Freshmen – An A or B each grading period of eighth grade science and concurrent enrollment in Algebra 1H, Geometry H, or Algebra 2H  
Sophomores – Departmental determination and concurrent enrollment in honors math

This lab and lecture course is arranged in six phases. The course first introduces biology as a science and describes how organisms interact and evolve. Part two relates the origin and development of life to the history of our planet. Parts three and four describe the mechanisms for continuity and change between generations. Parts five and six explore the systems either simple or complex that accomplish the regulation of all life processes. Graphing, analysis of graphs and data, and analysis of experimental design will help build the skills necessary for success on the ACT and other standardized tests.

### **COMPARATIVE ANATOMY AND PHYSIOLOGY - HONORS\***

Grades: 11 12                                      Length: Year  
Credit: 1                                      Value Scale: Honors  
Prerequisites: Minimum of Junior status.  
Both Biology 1 **or** Integrated Science and Biology 1.  
At least a B in all science courses each semester.

This elective provides students with the opportunity to do advanced study and gain college level information while still in high school. The course is designed to satisfy the requirements of both those students who plan a college major in the sciences or simply enjoy biological sciences. Previous knowledge is assumed. The focus of the course will be comparative anatomy and physiology of animals reinforced by dissection of representative specimens. Additional topics will include classification schemes and the evolutionary basis for them and a study of plan form and function. The course will be taught in a manner similar to that which a freshman in college might encounter. Recognition of variable relationships and form to function, as well as sequencing and other important skills will be reinforced.

### **ADVANCED PLACEMENT BIOLOGY\***

Grades: 11 12

Length: Year

Credit: 1

Value Scale: AP

Prerequisites: A- or higher in Biology 1-Honors each semester and Departmental determination

AP Biology provides the equivalent of an introductory college biology course. The course is organized around four main ideas: the process of evolution drives the diversity and unity of life; biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis; living systems store, retrieve, transmit and respond to information essential to life processes; and biological systems interact, and these systems and their interactions possess complex properties. In addition, there is a focus on developing the students' skills in science practices, including use of models to represent phenomena, mathematical analysis, experimental design, data collection strategies, and analysis of data. It is expected that students independently design and conduct experiments to pursue answers to problems posed by the instructor or the student. Students will have an extended period two-three times each week to accommodate the required laboratory experiments. Students may earn college credit if they do well on the AP exam.

### **INTRO to CHEMISTRY \***

Grades: 10 11

Length: Semester (offered only Semester 1)

Credit: 0.5

Value Scale: Regular

Prerequisites: Successful completion of both Biology 1 and Algebra 1

This course observes atomic structure and how it applies to chemical reactions. By exploring the different parts of chemistry, it will benefit the student who moves on to regular chemistry in subsequent years.

***\*\*Due to the structure of the course, students enrolled must be committed to a full year, taking both Intro to Chem and Intro to Physics.***

### **INTRO to PHYSICS \***

Grades: 10 11

Length: Semester (offered only Semester 2)

Credit: 0.5

Value Scale: Regular

Prerequisites: Integrated (General) Science, Biology 1, Algebra 1, Intro to Chemistry

This is a course that observes how things work. By exploring the different parts of motion, light, and gravity, it will benefit the student who moves on to regular physics in subsequent years.

***\*\*Due to the structure of the course, students enrolled must be committed to a full year, taking both Intro to Chem and Intro to Physics.***

### **CHEMISTRY 1\***

Grades: 10 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: C or higher in Biology 1 **AND** a C or better in previous math course

Chemistry is a science, which deals with the relationships of matter and energy, and the change matter undergoes to form new and usable products. Some of the topics covered in this first year chemistry course are the structure of atoms and molecules, chemical formulas and equations, physical behavior of gases, properties of atoms and molecules, electrochemistry, and the relationship of chemistry to society and the environment. This course is suitable for students who will not pursue the subject further as well as those who will go on to take college chemistry. In line with this, the ACT skills of data interpretation, experimental design, and evaluation of models and inferences will be emphasized.

### **CHEMISTRY 1–HONORS\***

Grade: 10 11

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: B or higher in Biology 1-Honors each semester; B or higher in the previous year's honors math course each semester; and concurrent enrollment in an honors math course or departmental approval

Chemistry 1-H is designed for those students with higher-than-average ability in science and math that may be, but not necessarily considering a career in a science and/or engineering field. Chemistry 1-H differs from Chemistry 1 in that the basic topics are covered in greater depth and in a quantitative manner. The ACT skills of data interpretation, experimental design, and evaluation of models and inferences will be emphasized.

### **CHEMISTRY 2–HONORS\***

Grades: 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: A- or higher in Chem 1-H each semester and Departmental recommendation; B or higher in the previous year's honors math course each semester; and concurrent enrollment in an honors math course

This course is designed to be the equivalent of a general chemistry course usually taken during the first year of college. A college-level textbook will be used. Units included will be: A Review of Stoichiometry and Gas Theory; Thermochemistry; Atomic Structure; Intramolecular Bonding; Bonding in Solids and Liquids + Simple Organic Chemistry; Advanced Properties of Solutions; Kinetics; Chemical Equilibrium; Solubility Product Constants; Thermodynamics; Electrochemistry; Simple Acid/Base Theory; Advanced Acid/Base Equilibrium. Included in this program will be additional time for laboratory work. Students enrolled in this course should have excellent mathematical and writing skills, be able to and willing to do the required independent work and study.

### **ADVANCED PLACEMENT CHEMISTRY\***

Grades: 11 12

Length: Year

Credit: 1

Value Scale: AP

Prerequisites: A- or higher in Chem 1-H each semester and Departmental recommendation; B or higher in the previous year's honors math course each semester; and concurrent enrollment in an honors math course

This course is designed to be the equivalent of a general chemistry course usually taken during the first year of college. A college-level textbook will be used. Units included will be: A Review of Stoichiometry and Gas Theory; Thermochemistry; Atomic Structure; Intramolecular Bonding; Bonding in Solids and Liquids + Simple Organic Chemistry; Advanced Properties of Solutions; Kinetics; Chemical Equilibrium; Solubility Product Constants; Thermodynamics; Electrochemistry; Simple Acid/Base Theory; Advanced Acid/Base Equilibrium. Included in this program will be additional time for laboratory work. Students enrolled in this course should have excellent mathematical and writing skills, be able to and willing to do the required independent work and study and be willing to take the advanced placement test in chemistry given each year in May. Students may earn college credit by doing well on this exam.

### **GEOSCIENCE \***

Grade: 11 12

Length: Semester

Credit: 0.5

Value Scale: Regular

Prerequisites: Minimum of Junior status.

Intro to Chem/Physics or Chemistry 1

This class provides a solid foundation for understanding the physical characteristics that make the planet Earth unique. We examine volcanoes, earthquakes, plate tectonics, glaciers, minerals, and mountain building.

### **SPACE SCIENCES \***

Grade: 11 12

Length: Semester

Credit: 0.5

Value Scale: Regular

Prerequisites: Minimum of Junior status.

Intro to Chem/Physics or Chemistry 1

This class starts 1 inch off the ground with our weather and atmosphere, we move on to observing the Moon, Sun, comets, and planets in our own solar system. We finish by gazing at distant galaxies in the echoes of the Big Bang.

### **CONCEPTUAL PHYSICS \***

Grade: 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Minimum of Junior status.

Intro to Physics or Chemistry 1 and concurrent enrollment in Algebra 2

This course is a laboratory-based, comprehensive, and in-depth exploration of how the physical universe operates. Students enrolled in this course can expect movement through high-level materials at a comfortable pace and extensive reading, preparation, and problem solving outside of class. Labs will involve the use of calculators, scientific apparatuses, and computers to become proficient using tools of modern-day science.

### **PHYSICS – HONORS\***

Grade: 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: C or higher in Algebra 2 each semester and concurrent enrollment in Pre-Calculus or higher math course

Physics - Honors is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Students should have a proficient math foundation through Algebra II Honors or be concurrently enrolled in a math course. Students will be completing much of their homework online, which will require a small additional fee. In addition, students may elect to use an online text at a substantial cost savings over a traditional text.

### **ADVANCED PLACEMENT PHYSICS 1\***

Grade: 11 12

Length: Year

Credit: 1

Value Scale: AP

Prerequisites: C or higher in Algebra 2 each semester and concurrent enrollment in Pre-Calculus or higher math course

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Students should have a proficient math foundation through Algebra II Honors or be concurrently enrolled in a math course. Students will be completing much of their homework online, which will require a small additional fee. In addition, students may elect to use an online text at a substantial cost savings over a traditional text. Students must be willing to take the advanced placement test in AP Physics I given each year in May. Students may earn college credit by doing well on this exam.

## SOCIAL SCIENCES DEPARTMENT

### PHILOSOPHY

The Social Sciences Department is dedicated to the integrated study of the social sciences and humanities in an effort to promote civic competence. Students of social science develop the ability to make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world. The department's course offerings aspire to help students acquire the skills essential to active citizenship in a democratic society, which will enhance their sense of their role in relation to the world. A social sciences education serves as a liberating force in the lives of all citizens, and as such, we seek to emphasize the essential connection between understanding of the social sciences, democratic values, and productive citizenship.

### SOCIAL SCIENCES SEQUENCES

Three full credits of social science are required; including one credit of US History and one-half credit each of Economics and US Government.

Required	Grade 9	Grade 10	Grade 11	Grade 12
1			*US History *US History H *Economics	*US Gov & Politics Seminar
2			*AP US History *AP Macro and Microeconomics	*AP US Gov & Politics
Electives				
1	Human Geography	World Hist		Psychology Psychology H DC International Relations
2	AP Human Geography	AP World Hist		Psychology Psychology H DC International Relations

*\*Denotes a required course*

### HUMAN GEOGRAPHY\*

Grades: 9

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: None

We live in an interdependent, global community whose well-being depends in part on cross-cultural awareness, communication, cooperation, mutual respect, and understanding. This course emphasizes culture as the key to understanding and appreciating the humanity of diverse peoples through an in-depth study of the regions of Asia, the Middle East, Latin America, and Africa. This study begins with each region's geography followed by an examination of its resources, history, and social conditions. The impact that geographical conditions and historical experiences have on cultures will be examined. Finally, the students will study the role of culture in the world today through family organization, religion, economic life, social structures, and political trends. This course will emphasize individual and group projects.

### **ADVANCED PLACEMENT HUMAN GEOGRAPHY\***

Grades: 9

Length: Year

Credit: 1

Value Scale: AP

Prerequisites: Qualified for Enrollment in English 1 Honors Required and/or Committee Determination

AP Human Geography introduces high school students to college-level introductory geography or cultural geography. The content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human-environment relationships on places, regions, cultural landscapes, and patterns of interaction. Students will develop skills in approaching problems geographically, using maps and geospatial technologies, thinking critically about texts and graphic images, interpreting cultural landscapes, and applying geographic concepts such as scale, region, diffusion, interdependence, and spatial interaction, among others.

### **WORLD HISTORY\***

Grade: 10

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: None

This survey course traces the human experience from 1200 A.D. to the present. Emphasis is placed on global connections, cause and effect, and continuity and change, as well as comparisons among major societies. The study of Africa, the Middle East, South and East Asia, the Americas, and Europe offers a balance of world history. Major themes include intellectual developments, social, political, and economic history. Students will focus on the development of reading, writing, discussion, and library research skills.

### **ADVANCED PLACEMENT WORLD HISTORY: Modern\***

Grade: 10

Length: Year

Credit: 1

Value Scale: AP

Prerequisites: Minimum 3.5 cumulative GPA and/or Departmental Determination

This college-level course students investigate events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. AP World History: Modern is designed to be the equivalent of an introductory college or university survey of modern world history.

### **UNITED STATES HISTORY\***

Grade: 11

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: None

This survey course traces the development of the American experience from pre-Columbian times to the present. During the first semester, students will become familiar with the Columbian Exchange, the colonial period, and the American Revolution through the Civil War. The second semester will cover the Reconstruction period through the Cold War and Vietnam. Emphasis will be placed on relating the past to the present and recognizing the interrelated nature of geography, politics, economics, and history. Students will focus on the development of reading, writing, discussion, and library research skills.

**UNITED STATES HISTORY - HONORS\***

Grade: 11                                      Length: Year  
Credit: 1                                        Value Scale: Honors  
Prerequisites: Minimum 3.5 cumulative GPA and/or Departmental Determination

This course presents a study of United States history with an emphasis on the analysis of primary source materials. Students will develop critical thinking skills through comparing and contrasting a variety of interpretations of historical events and trends. The course will require frequent written assignments and substantial amounts of supplementary readings. The goals of the course are to promote effective citizenship and to develop a better understanding of American political, social, economic, and artistic trends.

**ADVANCED PLACEMENT UNITED STATES HISTORY\***

Grade: 11                                      Length: Year  
Credit: 1                                        Value Scale: AP  
Prerequisites: Minimum 3.5 cumulative GPA and/or Departmental Determination

This course presents a study of United States history with an emphasis on the analysis of primary source materials. Students will develop critical thinking skills through comparing and contrasting a variety of interpretations of historical events and trends. The course will require frequent written assignments and substantial amounts of supplementary readings. The goals of the course are to prepare students to succeed on the Advanced Placement exam, to promote effective citizenship and to develop a better understanding of American political, social, economic, and artistic trends. Students may earn college credit for this course dependent upon their score on the AP exam.

**CONSUMER ECONOMICS\***

Grade: 11                                      Length: Semester  
Credit: 0.5                                      Value Scale: Regular  
Prerequisites: Junior requirement

This one semester course, which is required of all juniors for graduation purposes, examines the fundamental principles of economics, and applies them to the student's role as current and future consumers. Emphasis is placed on developing an increasing awareness of ongoing economic problems and how they influence the consumers of today. Students will raise their basic literacy of economics through the use of critical thinking, analysis, and research of current problems in today's economy. The topics covered include scarcity, laws of supply and demand, stock market investment, money and banking, finance, and career opportunities.

### **ADVANCED PLACEMENT MICROECONOMICS\***

Grade: 11                                      Length: Semester  
Credit: 0.5                                      Value Scale: AP  
Prerequisites: Minimum 3.5 cumulative GPA and/or Departmental Determination

***\*The content of each semester will be integrated into a full-year course of study to prepare students to take BOTH the Macroeconomics and Microeconomics Advanced Placement exams.***

***\*\*Due to the structure of the course, students enrolled must be committed to a full year. Students taking this course are exempt from physical education their junior year, with the completion of the exception qualifications found on pages 8 & 9 of this Curriculum Guide.***

This one semester course is designed to be the equivalent of a college survey while also satisfying state and national requirements for consumer education. Using an integrated approach, content is organized in a way that is coherent and complimentary. Microeconomics concentrates on the function of individual decision makers within economic systems. Emphasis is placed on the product market, the factor market, and the role of government to promote economic efficiency. By developing strong critical thinking skills through the understanding, application and analysis of economic concepts, students will be prepared to complete both the Microeconomics and Macroeconomics AP exams.

### **ADVANCED PLACEMENT MACROECONOMICS\***

Grade: 11                                      Length: Semester  
Credit: 0.5                                      Value Scale: AP  
Prerequisites: Minimum 3.5 cumulative GPA and/or Departmental Determination

***\*The content of each semester will be integrated into a full-year course of study to prepare students to take BOTH the Macroeconomics and Microeconomics Advanced Placement exams.***

***\*\*Due to the structure of the course, students enrolled must be committed to a full year. Students taking this course are exempt from physical education their junior year, with the completion of the exception qualifications found on pages 8 & 9 of this Curriculum Guide.***

This one semester course is designed to be the equivalent of a college survey while also satisfying state and national requirements for consumer education. Using an integrated approach, content is organized in a way that is coherent and complimentary. Macroeconomics concentrates on entire economic systems. Emphasis is placed on measuring economic performance, income and price determination, the financial sector, stabilization policies, growth, and open economics. By developing strong critical thinking skills through the understanding, application and analysis of economic concepts, students will be prepared to complete both the Microeconomics and Macroeconomics AP exams.

### **UNITED STATES GOVERNMENT AND POLITICS SEMINAR\***

**(Optional Dual Credit Class with McHenry County College with \$25 Course Fee)**

Grade: 12                                      Length: Semester  
Credit: 0.5                                      Value Scale: Regular  
Prerequisites: None                              ***Optional MCC: PLT151 for 3 credits***

This one semester course, required of all seniors for graduation, serves a dual purpose in examining the structures and functions of American Government, while also focusing on the development of those academic skills necessary for success in college. This college seminar format course will meet in the auditorium and upon successful completion of all course requirements students will also earn 3 hours of college credit through MCC. Students will examine the philosophical and institutional foundations of government and the origins of American political theory. Special emphasis will be placed on the study of the U.S. Constitution and its

interpretation by the Supreme Court. As part of this course, students will be required to write an original research paper and pass a U.S. Constitution test. Students will then analyze basic American institutions and their role as active citizens in a democracy. Throughout this course, students will develop organizational skills, study habits, critical thinking capacity, and sense of personal responsibility required to achieve academic success beyond high school.

**ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS \***  
**(Optional Dual Credit Class with McHenry County College with \$25 Course Fee)**

Grade: 12                                      Length: Year  
Credit: 1                                        Value Scale: AP  
*Optional MCC: PLT151 for 3 credits*

Prerequisites: Minimum 3.5 cumulative GPA, and/or Departmental Determination

*\*The content of this course will be integrated into a full-year course of study to prepare students to successfully take the US Government and Politics Advanced Placement exam.*

***\*Due to the structure of the course, students enrolled must be committed to a full year. Students are exempt from physical education their senior year, with the completion of the exception qualifications found on pages 8 & 9 of this Curriculum Guide.***

AP United States Government and Politics course is intended to provide students with a detailed understanding of the structures and functions of American government. By the end of the course, students will be able to identify the major branches of government and describe the authority and responsibilities of each. Students will also understand the election process and recognize the differences between major political parties. Students will learn about judicial precedent and how constitutional law regarding civil liberties and civil rights has evolved over time. Finally, the course will examine current issues and public policy debates. This will require a great deal of critical thinking, analysis, and evaluation of primary source documents. Students are expected to emerge from the course with a critical understanding of the processes, strengths, and weaknesses of American government as well as an awareness of their own political views and the implications of those views.

**PSYCHOLOGY\***

Grade: 12                                      Length: Year  
Credit: 1                                        Value Scale: Regular  
Prerequisites: None

Psychology is a one-year course that covers the major theories of psychology. This course is designed to familiarize students with the nature of psychology, its basic structure, and its broad purposes in contemporary life. Students are introduced to human physiology, abnormal behavior, stress management, learning, memory, human growth, and development. They are encouraged to apply the principles of psychology to their own lives. Particular attention is paid to essential social science skills in reading, analysis and application of research and data related to the patterns of human behavior. The goal of this course is for students to appreciate the commonality of all human behavior, while accepting the uniqueness of the individual.

**PSYCHOLOGY - HONORS\***

Grade: 12                                      Length: Year  
Credit: 1                                        Value Scale: Honors  
Prerequisites: Minimum 3.5 cumulative GPA and/or Departmental Determination

This course will go beyond the standard psychology curriculum and provide students with a thorough, systematic, and scientific study of the behavior and mental processes of human beings. As a college preparatory-level course, students will learn how to apply fundamental psychological concepts and principles while recognizing phenomena associated with each of the major subfields within psychology. Students will also learn about the ethics applicable to psychological inquiry and foster the development of critical thinking skills. In addition to mastering key psychological concepts, students will engage in writing papers and essays, which will enhance their ability to communicate effectively in the field. A key component of the course will be dedicated preparation for the CLEP (College-Level Examination Program) test, equipping students with the knowledge and test-taking strategies needed to succeed on the exam and earn college credit.

### **INTERNATIONAL RELATIONS\* (NEW)**

#### **Dual Credit Class with McHenry County College with \$25 Course Fee**

Grade: 12	Length: Year
Credit: 1	Value Scale: Regular
Prerequisites: None	<i>MCC: PLT251 for 3 credits</i>

This year-long elective course studies globally significant topics in a way that is designed to be informative, inquisitive, and to help students develop their own understandings of a variety of current issues. Topics will include issues such as immigration and migration, climate change, global conflicts, and the global economy. The overall course framework involves an introductory study of the issue, student driven research and analysis of the issue, and analysis of public policy regarding the issue. Through these activities, students will develop an understanding of important, international topics and how they are being addressed in the United States.





## **THEOLOGY 4**

Grade: 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Senior standing

### CATHOLIC SOCIAL TEACHING AND CHRISTIAN VOCATION

The purpose of this course is to introduce students to the Church's social teaching. This course examines Catholic Social Teaching using Papal, Conciliar, and Episcopal documents. The course builds upon the social teachings of Christ and the early Church Fathers as well as many Papal documents, including Pope Leo XIII's *Rerum Novarum* all the way to Pope Francis' *Laudato Si'* in order to establish a complete vision of social justice. This course will examine many topics within the context of Catholic Social Teaching including the dignity and purpose of human life, the proper organization of society, social virtues, religion in the public realm, the promotion of the common good, and the meaning of justice within and between communities.

The second part of the course is Christian Vocations. The purpose of this course is to help students to understand the vocations of life: how Christ calls us to live. In this course, students should learn how all vocations are similar and how they differ. The course should be structured around married life, single life, priestly life, and consecrated life. Students should learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

In this course students will engage in a foundational study of the vocation of love and the universal call to Holiness given to us by Christ. Other topics will include Papal teachings on marriage, the goods and ends of marriage, marital vows, religious vows, love, friendship, parenting, family rituals, religious education of children, chastity, celibacy, and the status of marriage in society.

## **THEOLOGY 4 HONORS**

Grade: 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: Senior standing

B+ or higher each semester of all previous theological studies and/or Departmental determination

Students study the same material covered in the standard Theology 4 course (listed above) but with more depth and at an accelerated pace. The course uses independent research, in depth discussion and readings outside of texts. Students must be willing to engage actively in these tasks, and be capable of high-level reading, conversation, and presentation. Other projects, such as a term paper, may be planned in conjunction with this course.

## VISUAL ARTS

### PHILOSOPHY

The art department exists to stimulate and guide students in their total self-development and growth through the acquisition and utilization of knowledge and skills. Marian's art program strives for excellence through a sound learning process. We endeavor to teach art as a discipline that educates; a discipline in which student perception must be used thoroughly to provide immediate awareness, a contact with reality. A good art program must be ever cognizant of the creative process; the continued action and interaction between the student and his/her art. We recognize that the source of all competent art products must necessarily stem from the imagination. Our goal is teaching the student the necessary skills that will effectively transform thoughts and ideas into a concrete expression that shapes, reveals, and embodies what art is. Realizing the variety of personalities and abilities, we strive to provide a wide variety of content and media to encourage self-expression, self-development, and the appreciation of oneself and others as well as enriching art experiences.

### ART 1

Grades: 9 10 11

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: None

Art I is an elective course that introduces the fundamentals of Fine Arts. This is a survey course, in which students will focus on learning, appreciating, and applying the elements and principles of design through experiential studio projects as analyzed through the lens of art history. Students will observe demonstrations, receive individual guidance, and share their artistic expressions with their learning community. This course will utilize a variety of materials and techniques for students who have minimal art experience, while giving experienced students a place to further develop their skills. Although all lessons are defined by technical and formal parameters, choice of subject matter will be largely student-driven to encourage, enhance, and support individual creativity.

### ART 2

Grades: 10 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Art 1

This sequential Fine Arts elective course is structured to challenge students who wish to increase their personal skills and further develop their knowledge of art. This course will build upon experience with the various mediums and concepts studied in Art I. Students will continue to experiment with a wide variety of techniques and styles, while further exploring art history and the art traditions of various cultures from around the world.

### ART 3 – HONORS

Grades: 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: Grade of A in Art 1 and Art 2 as well as Departmental recommendation

Art III Honors students, in addition to completing the Art III course requirements, will undertake an additional large scale independent project of their choosing each quarter. These projects will be determined after

student/teacher conferences- students will be allowed to choose their own medium, set final due date with teacher discretion, discuss materials with teacher, and must present a challenge to the artist. The student is also required to submit a reflection that details the inspiration and process of completing their piece, as well as a brief presentation to their learning community.

**ART 4- Honors**

Grade: 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: Grade of A in Art 3 Honors and Art 2 and Departmental recommendation

This Fine Arts course is designed to challenge and inspire students who are interested in pursuing art at the next level. It is structured as an independent study. Open to both 2- and 3-dimensional art mediums, it focuses as an advanced, individual self-study and college portfolio development program. Students specifically work in their areas of special interest. Continued emphasis will be placed on goal setting and planning, as well as further development of personal techniques and honing of individual style. Students' growth and creativity will be evaluated during the term of the course. A minimum of three large scale summative projects are required per quarter as determined by student/teacher conferences, along with reflections and presentations to their learning communities. Students are expected to challenge themselves, experiment, and further develop their talents and creativity. Careers and opportunities in art will be explored as students prepare to enter university level art programs.

## WORLD LANGUAGES DEPARTMENT

### PHILOSOPHY

The World Languages Department at Marian Central Catholic High School believes that a world language should stimulate student awareness of different languages and a variety of cultural phenomena and promote comprehension-based communicative language acquisition. In particular, we will use TPRS (Teaching Proficiency through Reading and Storytelling). Departmental philosophy is achieved by the following departmental goals that equip students:

- a. to function in the target language and culture,
- b. to use the language for a lifetime of personal enjoyment and enrichment,
- c. to appreciate the role of Hispanic and French cultures in a global context, and
- d. to continue expanding their communicative proficiency for further education or for the workplace.

The World Language curriculum is aligned to the World Readiness Standards for Learning Languages and may prepare students to take the **Illinois and Global Seal of Biliteracy** assessment. Students who choose to take the Seal of Biliteracy can potentially earn college credit. For more information on the Seal of Biliteracy, please see page 7 or contact the Guidance Department.

### FRENCH 1\*

Grades: 9 10 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisites: Enrollment in English 1 or above

This course provides an introduction to the French language and to the culture of the French-speaking world. The basic objective of the course is twofold: (1) to help each student attain an acceptable degree of proficiency in the four skills of listening, speaking, reading, and writing, and (2) to present the language within the context of the French-speaking world and its culture. Students master language concepts that allow them to exchange information and express themselves meaningfully both in written and spoken formats. Audio-visual components introduce cultural aspects of the language that allow students to think more critically as they compare beliefs and behaviors of a new culture with their own. Course/Tech fee includes all online subscriptions and electronic resources provided by the instructor.

### FRENCH 2\*

Grades: 9 10 11 12

Length: Year

Credit: 1

Value Scale: Regular

Prerequisite: A minimum C average in French 1 and/or departmental determination

Freshmen: Qualifying Score on the Marian Placement Test

French 2 presents a more complex structure of basic skill acquisition while continuing to expand the cultural knowledge learned in French 1. The aim of the second level is to continue the development of the basic skills of listening, reading, writing, and speaking. French 2 moves the learner from acquiring knowledge towards implementing knowledge of the French language through communication and conversation in the target language. French 2 also strives to introduce the learner to a greater variety of grammatical topics. The second level prepares the student to move towards French 3 Honors. Course/Tech fee includes all online subscriptions and electronic resources provided by the instructor.



This course builds on Spanish 1 as it continues to provide exposure to the Spanish language and to the culture of the Spanish-speaking world. The basic objective of the course is twofold: (1) to help each student attain an acceptable degree of proficiency in the four skills of listening, speaking, reading, and writing, and (2) to present the language within the context of the Spanish-speaking world and its culture. Students master language concepts that allow them to exchange information and express themselves meaningfully both in written and spoken formats. Audio-visual components introduce cultural aspects of the language that allow students to think more critically as they compare beliefs and behaviors of a new culture with their own. Students will read level-based novels in the target language, as part of the TPRS (Teaching Proficiency through Reading and Story Telling) curriculum and strategies. Course/Tech fee includes all online subscriptions and electronic resources provided by the instructor.

**SPANISH 3-HONORS\***

Grades: 10 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: B or higher in Spanish 2 each semester

Spanish 3 continues the integrated development of skills begun in Spanish 1 and Spanish 2 in order to take command of the language. Students are introduced to advanced grammar concepts and are encouraged to personalize language skills as well as to interact through a variety of tasks that are reality based. Listening, speaking, reading, culture, and writing skills are emphasized. Students will read level-based novels in the target language, as part of the TPRS (Teaching Proficiency through Reading and Story Telling) curriculum and strategies. Course/Tech fee includes all online subscriptions and electronic resources provided by the instructor.

**SPANISH 4-HONORS\***

Grade: 11 12

Length: Year

Credit: 1

Value Scale: Honors

Prerequisites: B or higher in Spanish 3-H each semester

Spanish 4 Honors is a study of the cultural aspects of Spanish society. Skill development will continue through the study of literature, history, geography, art, and music. Through listening, speaking, reading, and writing, the students will be able to develop further skill development by communication. Students will read level-based novels in the target language, as part of the TPRS (Teaching Proficiency through Reading and Story Telling) curriculum and strategies. The class will be conducted mainly in Spanish. Course/Tech fee includes all online subscriptions and electronic resources provided by Instructor.

## OTHER SELECTIONS

### STUDY HALL

Credit: None

Value Scale: None

Prerequisites: None

Study Hall is a structured learning environment where the teacher monitors students' appropriate use of time. Students are required to come prepared with the books and other material required for study.

## MCHENRY COUNTY COLLEGE PARTNERSHIP FOR COLLEGE AND CAREER SUCCESS (PCCS) PROGRAM OFFERINGS for 2025-26

Marian Central Catholic High School is pleased to continue offering students opportunities to expose themselves to a variety of career options through our partnership with McHenry County College. Through the PCCS program, students can earn high school credit for courses taken at MCC in the mornings prior to their classes at Marian Central.

In order to qualify for this opportunity:

- 1) The Marian student must be of Junior/Senior standing at the time of taking the course.
- 2) The student must be a full-time student at Marian (taking at least 6 Marian courses) and are required to take one study hall period (scheduled during period 1 only).
- 3) At the end of 4/6 semesters at Marian Central, the student must have at least a 3.0 cumulative adjusted GPA.
- 4) The student must return to Marian directly after the MCC course has ended each day, checking into the main office.
- 5) The student assumes responsibility for all fees for the college-level course (including testing, tuition, textbooks, & any transportation)

Grades earned in approved non-Marian courses according to the above stated conditions will not count towards a student's grade point average.

Students interested in pursuing this opportunity are encouraged to contact their School Counselor and/or Marian Central Catholic's Curriculum Director.

***\*\*Availability of any PCCS class is based on enrollment. If the class is cancelled by MCC due to low enrollment, students would be notified in April giving them enough time and an opportunity to make a schedule change for next year.***

## **APPLICATION DEVELOPMENT (through McHenry County College only)**

Students may enroll in The Fall Semester courses or both Fall and Spring Semester courses.

### **Fall Semester**

Grade: 11 12

Length: Semester M-TH 7-8:50am @MCC

Credit: Marian & MCC credit indicated below

Value Scale: N/A

Prerequisites: [Registration, fees, and additional acceptance criteria through MCC](#)

### **ADD100 PROGRAMMING LOGIC** (0.5 Marian Credit; 3 MCC Credits) (Monday – Thursday)

Programming Logic introduces core programming concepts including sequence, iteration, decision statements, data Types, accessing and storing data, objects, and classes. Students plan and create programs using modern planning tools and the Python programming language. This course will prepare students for advanced object-oriented programming coursework. Students will be introduced to AI-assisted programming.

### **ADD103 FUNDAMENTAL WEB DEVELOPMENT** (0.5 Marian Credit; 3 MCC Credits) (Monday – Thursday)

Fundamental Web Development teaches students introductory hand coding in HTML and CSS. Coursework will help to prepare students to pass the HTML CSS certifications from the W3schools; additional study or ] ADD153 will be needed to cover all topics of the certifications. Students will hand code in an Integrated Development Environment and be introduced to AI tools to help in the coding and debugging process.

### **Spring Semester**

Grade: 11 12

Length: Semester M-TH 7-8:50am @MCC

Credit: Marian & MCC credit indicated below

Value Scale: N/A

Prerequisites: Grade of C or higher in ADD 101 & ADD103 [Registration, fees, and additional acceptance criteria through MCC](#)

### **ADD107 PROGRAMMING for iOS I** (0.5 Marian Credit; 3 MCC Credits) (Monday – Thursday)

Programming for iOS teaches the fundamentals of programming in the Xcode Development Environment using the Swift language. Students learn core SWIFT concepts and language fundamentals as they apply to iOS app development. Students also learn debugging, version control, and object-oriented programming. (1.2 – Articulated)

### **ADD140 USER INTERFACE/EXPERIENCE DESIGN** (0.5 Marian Credit; 3 MCC Credits) (Mon. – Thurs.)

User Interface and Experience Design, with a focus on creating effective and engaging digital experiences. Through a combination of lectures, discussions, and hands-on projects, students will learn to analyze user needs, design interfaces that are intuitive and visually appealing, and conduct usability testing to ensure that their designs meet user expectations. Topics covered will include typography, color theory, layout design, information architecture, interaction design, and accessibility. Students will also learn to use industry-standard software tools. By the end of the course, students will have a solid understanding of the principles of UI/UX design and the skills to create effective digital experiences for a variety of platforms and devices.

**AUTOMOTIVE TECHNOLOGY PROGRAM (through McHenry County College only)**

Students may enroll in The Fall Semester courses or both Fall and Spring Semester courses.

*\*Students must refer to MCC's Automotive class dress code on the MCC website and/or class syllabus.*

**Fall Semester**

Grade: 11 12

Length: Semester M-TH 7-8:50am @MCC

Credit: 1 Marian; MCC credit indicated below Value Scale: N/A

Prerequisites: [Registration, fees, and additional acceptance criteria through MCC](#)

**AMT100 ~ PRINCIPLES OF AUTOMOTIVE TECHNOLOGY** (1 Marian Credit; 4 MCC Credits) (Monday - Thursday)

Principles of Automotive Technology provides students with an introduction to the automotive industry. Students become acquainted with the major vehicle subsystems and components, identify their function and importance, and learn their service requirements. This general overview course covers shop safety, hazardous materials, basic physics principles, steering, chassis, suspension, brakes, internal combustion engines, electricity, drive train systems, and basic diagnostics. The lab portion of this course offers hands-on experience that reinforces the theories and service procedures presented in the classroom. This course is the prerequisite to all other automotive courses. (1.2 - Articulated)

**Spring Semester**

Grade: 11 12

Length: Semester M-TH 7-8:50am @MCC

Credit: 1 Marian; MCC credit indicated below Value Scale: N/A

Prerequisites: Grade of C or higher in AMT100 [Registration, fees, and additional acceptance criteria through MCC](#)

**AMT120 ~ AUTOMOTIVE ELECTRICITY FUNDAMENTALS** (1 Marian Credit; 4 MCC Credits) (Monday - Thursday)

Automotive Electricity Fundamentals is designed to introduce students to basic electrical principles and their applications in automobiles. Topics include electron theory, digital multimeter use, and circuit testing, Ohms Law, magnetism, electromagnetism, induction, circuit types, chemical storage battery science, AC/DC motors and generators, and current/voltage regulation. Fundamental principles established in this course serve as the basis for many other related topics in subsequent course offerings. (1.2 – Articulated)

**CULINARY MANAGEMENT (through McHenry County College only)**

Students may enroll in the Fall Semester course or both Fall and Spring Semester courses.

*\*Students must refer to MCC's Culinary class dress code on the MCC website and/or class syllabus.*

**Fall Semester**

Grade: 11 12

Length: Semester M-TH 7-9:00 am @MCC

Credit: 1 Marian & MCC credit indicated below Value Scale: N/A

Prerequisites: [Registration, fees, and additional acceptance criteria through MCC](#)

**CLM101 ~ CULINARY SKILLS I** (1 Marian Credit; 6 MCC Credits) (Monday - Thursday)

Culinary Skills I introduces students to the basic foundation skills needed to work in a professional kitchen. Topics covered include the history of the industry, classic and modern kitchen brigades, equipment and safety overview, culinary math, and beginning cooking skills. Students explore seasonings and spices, fermentation, and pickling, and learn how to prepare stocks, sauces, soups, basic grains, vegetables, and starches. NOTE:

MCC approved student uniform (coat, pants, hat) and toolkit are required for this course and may only be purchased through the MCC bookstore. The hard copy textbook is required for this class. E-books are not allowed for this course. No electronic devices (cell phones, computers, etc) are allowed in lab production classes. Please visit the culinary page at [www.mchenry.edu](http://www.mchenry.edu) for other important program guidelines. This course requires basic reading, basic writing and basic math.

### **Spring Semester**

Grade: 11 12

Length: Semester M-TH 7-9:00 am @MCC

Credit: 1 Marian & MCC credit indicated below

Value Scale: N/A

Prerequisites: Grade of C or higher in CLM101 [Registration, fees, and additional acceptance criteria through MCC](#)

### **CLM102 ~ CULINARY SKILLS II** (1 Marian Credit; 6 MCC Credits) (Monday - Thursday)

Culinary Skills II is a continuation of Culinary Skills I. Students begin new techniques such as pastas, sandwiches, breakfast cookery and global street foods. Students will also learn basic yeast dough and cheese making techniques. Emphasis is on cost control and presentation skills. Students will learn the basics of buffet and catering skills and create a buffet table as part of their final assessment. Most of the product produced in class will be used by the student-run bakery and/or restaurant. NOTE: MCC approved student uniform and toolkit are required for this course. E-Books are not allowed for this course. No electronic devices (cell phones, computers, etc) are allowed in lab production classes. This course requires basic reading, basic writing and intermediate math.

## **EARLY CHILDHOOD EDUCATION** (through McHenry County College only)

### **EARLY CHILDHOOD EDUCATION PROGRAM ECE219 & ECE214**

Grade: 11 12

Length: Semester (Spring Only) M-TH, 7-8:20am @MCC

Credit: 1 Marian; MCC credit indicated below

Value Scale: N/A

Prerequisites: [Registration, fees, and additional acceptance criteria through MCC](#)

### **ECE-219 ERLY CHI SCI & MAT** (0.5 Marian Credit; 3 MCC Credits) (Tuesday & Thursday)

Early Childhood Science and Math covers the theory and practice of teaching science and math to children from pre-K to 3rd grade. It focuses on the creation and evaluation of developmentally appropriate science and math activities and materials that encourage young children to use their natural curiosity and interest in objects. Students come away with a repertoire of science and math activities. SCANS skills included. (1.2-Articulated)

### **ECE-214 ERLY CHI ART ACTV** (0.5 Marian credit; 3 MCC Credits) (Monday & Wednesday)

Early Childhood Art Activities looks at the development of creativity in young children. This course provides firsthand experience with various art media appropriate for young children. Students learn methods and activities for presenting art in a way that enhances children's creativity, skill, and sense of fulfillment. They also participate in a pre-school setting as part of the course. SCANS SKILLS included. (1.2-Articulated)

## **FIRE SCIENCE/EMT/CRIMINAL JUSTICE (through McHenry County College only)**

### **FIRE SCIENCE TECHNICIAN, EMERGENCY MEDICAL TECHNICIAN, and CRIMINAL JUSTICE**

Grade: 11 12 Length: Semester, (Fall or Spring) M-F, 7-8:50am @MCC

Credit: 1 Marian; MCC credit indicated below Value Scale: N/A

Prerequisites: [Registration, fees, and additional acceptance criteria through MCC](#)

<b>Track 1: Criminal Justice</b>	<b>Track 2: Fire Science/EMT</b>
<b>FRS100: Intro to Emergency Services</b> (0.25 Marian credit; 2 MCC credits)	
<b>EMS105: First Responder</b> (0.25 Marian credit; 3 MCC credits)	
<b>CJS101: Criminal Justice</b> (0.25 Marian credit; 3 MCC credits)	<b>FRS101: Intro to Fire Science</b> (0.25 Marian credit; 3 MCC credits)
<b>CJS290: Shadowing Experience</b> (0.25 Marian credit; 2 MCC credits)	<b>FRS250: Internship EMT/Fire</b> (0.25 Marian credit; 2 MCC credits)

Students will receive an introduction to the fields of Criminal Justice, Fire Science, and EMT. Regardless of the track they choose all students in the program will be required to take FRS100 (3 weeks) and EMS105 (5 weeks). Students will then have a choice between the Criminal Justice or the Intro to Fire Science course. The culmination of this program includes either a Criminal Justice job shadowing or Fire Science internship. Attendance is imperative with these courses, and students will receive a total of 10 MCC credits upon the successful completion of either program.

## **HEATING, VENTILATION, and AIR CONDITIONING (through McHenry County College only)**

Courses in residential and commercial air conditioning, heating, and ventilation that can be stacked toward MCC certificates and HVASAAS. Students may enroll in The Fall Semester courses or both Fall and Spring Semester courses.

*\*Students must refer to MCC's Heating, Ventilation, and Air Conditioning class dress code and additional required materials on the MCC website and/or class syllabus.*

### **Fall Semester**

**HVA101 ~ INTRODUCTION TO REFRIGERATION** (1 Marian Credit; 4 MCC Credits) (Monday - Thursday)

Grade: 11 12 Length: Fall Semester M-Th, 7 – 8:50 am

Credit: 0.5 Marian; MCC credit indicated below Value Scale: N/A

Prerequisites: [Registration, fees, and additional acceptance criteria through MCC](#)

### **Spring Semester**

**HVA112 ~ EPA SECTION 6088 CERTIFICATION** (0.5 Marian Credit; 2 MCC Credits) (Monday - Thursday)

Grade: 11 12 Length: Spring Semester M-Th, 7 – 8:50 am

Credit: 0.25 Marian; MCC credit indicated below Value Scale: N/A

Prerequisites: HVA101 with a grade of C or higher. [Registration, fees, and additional acceptance criteria through MCC](#)

**HVA114 ~ HVAC CODES** (0.5 Marian Credit; 2 MCC Credits) (Monday - Thursday)

Grade: 11 12 Length: Spring Semester M-Th, 7 – 8:50 am

Credit: 0.25Marian; MCC credit indicated below Value Scale: N/A

Prerequisites: HVA101 with a grade of C or higher. [Registration, fees, and additional acceptance criteria through MCC](#)

## **MANUFACTURING and ADVANCED TECHNOLOGIES (through McHenry County College only)**

Students may enroll in The Fall Semester courses or both Fall and Spring Semester courses.

*\*Students must refer to MCC's Manufacturing and Advanced Technologies class dress code and additional required materials on the MCC website and/or class syllabus.*

### **Fall Semester**

#### **WLD131 ~ MIG WELDING FLAT and HORIZONTAL**

Grade: 11 12

Length: Fall Semester M-Th, 7 – 8:50 am

Credit: 0.5 Marian; MCC 3 credits

Value Scale: N/A

Prerequisites: [Registration, fees, and additional acceptance criteria through MCC](#)

MIG (Metal Inert Gas) Welding Flat and Horizontal focuses on the continuous wire Gas Metal Arc Welding (GMAW), cutting, and surfacing in flat and horizontal positions to meet commercial quality standards. Safety rules and proper equipment usage are emphasized.

#### **IMT140~ ELECTRICAL 1**

Grade: 11 12

Length: Fall Semester M-Th, 7 – 8:50 am

Credit: 0.5 Marian; MCC 3 credits

Value Scale: N/A

Prerequisites: [Registration, fees, and additional acceptance criteria through MCC](#)

Electrical I explores electronics through hands-on labs and simulations. Topics range from Ohm's Law to semiconductor circuits, series and parallel circuits, capacitors, inductors, and magnetic, with focus on analog and digital circuits. Background in basic algebra recommended for understanding electronics concepts. (1.2-Articulated) NOTE: This course requires basic reading, basic writing and basic math.

### **Spring Semester**

#### **CNC105~ MANUAL MACHINING I**

Grade: 11 12

Length: Spring Semester M-Th, 7 – 8:50 am

Credit: 1 Marian; MCC credit indicated below Value Scale: N/A

Prerequisites: [Registration, fees, and additional acceptance criteria through MCC](#)

WLD131 & ARM with a grade of C or higher.

Manual Machining I covers introductory-level manual machining skills used in metal manufacturing. Students learn machine shop safety and are introduced to the basics of operating drills, saw and cut off machines, lathes and mills. Students also learn inspection and quality assurance functions as they relate to a machine shop.

## **NURSE ASSISTANT PROGRAM (through McHenry County College only)**

## **NAE100 ~ NURSE ASSISTANT PROGRAM**

Grade: 11 12

Length: Semester (Fall or Spring) M-TH, 7-8:40am @MCC

Credit: 1 Marian; MCC credit indicated below

Value Scale: N/A

Prerequisites: (Prior to the start of class)

- criminal background check
- a physical exam
- be 16 years old by course completion
- two step TB test or chest X-ray
- a valid Social Security Card
- Accuplacer Reading placement score of 55 or higher taken at MCC in early March

Basic Nursing Assistant prepares students to assist licensed health care providers in delivering care in various settings. This course includes theory, lab practice and a clinical component. The course is approved by the Illinois Department of Public Health (77 Ill. Adm. Code 395). Successful completion of this course leads to eligibility to take the written Illinois Nurse Assistant/Home Health Aide Competency Exam for employment and certification as a Certified Nurse Assistant (CNA). (1.2- Articulated) NOTE: Clinical times differ from theory. Clinical times are found in the comment field of the MCC online schedule. Students must have their own transportation to clinical as well as MCC and Marian Central.

## **DUAL ENROLLMENT**

Marian Central Catholic High School is pleased to offer increased opportunities for students to earn high school credit for courses taken in conjunction with other institutions of higher learning during their tenure at Marian Central. Courses may be taken online or in person.

The following conditions are expected to be met in order to take advantage of this opportunity:

- 1) The Marian student must be of Junior or Senior standing at the time of taking the course.
- 2) The student is a full-time student at Marian (taking at least 6 Marian courses) and are required to take one study hall period.
- 3) At the end of 4/6 semesters at Marian Central, the student must have at least a 3.0 cumulative adjusted GPA.
- 4) The course is not otherwise offered at Marian Central Catholic.
- 5) The course must be approved by Marian Central's Curriculum Director in advance of registration.
- 6) No more than one credit per core subject (English, Math, Science, or Social Science) can be taken, unless otherwise approved by the Curriculum Director.
- 7) The student is limited to one non-Marian course credit per semester enrolled at Marian in terms of credit that may be applied towards their high school graduation requirements.
- 8) A maximum of 2 credits may be counted towards the student's high school credit requirements.
- 9) The student may not leave Marian (during a regular school day) in order to take the course.
- 10) The student may be required to take a placement test to ensure proper course placement for the college-level course. (ie: at McHenry County College English requires the Accuplacer and Math requires either the ALEKs test, AP test, or CLEP test with required scores as a prerequisite for certain classes.)
- 11) The student assumes responsibility for all fees for the college-level course (including testing, tuition, textbooks, & any transportation)

Grades earned in approved non-Marian courses per above stated conditions will not count towards a student's grade point average.

Students interested in pursuing this opportunity are encouraged to contact their School Counselor and/or Marian Central Catholic's Curriculum Director.

# CREDIT RECOVERY

## PROCEDURE FOR CREDIT RECOVERY

- When a student fails a required course, the parents will receive a letter from the School Counselor with directions on how to enroll in the appropriate make-up course.
- Parents are responsible for enrolling their student and paying for the course at <https://www.educere.net>
- Guidance receives notification and completes the enrollment.
- Students work online to complete all required work within the time constraints provided on letter.
- Failure to successfully complete credit recovery course will result in the inability for a student to enroll in the following school year at Marian.

## EDUCERE COURSES

Grades: 9 10 11 12  
Credit: Varies

Length: Varies  
Value Scale: Not Counted in GPA

Students may enroll in Educere courses for Credit Recovery with the permission of the Director of Guidance. Students completing an approved Educere course will: a) receive credit, and b) have the course included on the transcript once the course is successfully completed.

- The grade will not be included in the student's GPA.
- Student must earn at least 70% (following Marian's grading scale) to recover credit.

## MY CATHOLIC FAITH COURSES

Grades: 9 10 11 12  
Credit: Varies

Length: Varies  
Value Scale: Not Counted in GPA

Students may enroll in *My Catholic Faith* courses for either Credit Recovery of a failed Theology class with the permission of the Director of Guidance. Students completing an approved *My Catholic Faith* course will: a) receive credit, and b) have the course included on the transcript. The credit will not be included in the student's GPA. **\*\*Parents must go online <http://www.mycatholicfaithdelivered.com> to enroll and pay for the course.**

**MARIAN CENTRAL CATHOLIC HIGH SCHOOL  
FRESHMAN COURSE SELECTION WORKSHEET**

FRESHMAN REQUIRED COURSES		
Choose 1 ENGLISH course		
Courses	Credits	Prereq
English 1A	1	
English 1	1	
English 1 Honors	1 *	
Choose 1 MATHEMATICS course		
Courses	Credits	Prereq
Algebra 1A (enroll in Int Science)	1	
Algebra 1 (enroll in Biology 1)	1	
Algebra 1 Honors	1 *	
Geometry Honors	1 *	
Algebra 2 Honors	1 *	
Choose both PHYSICAL EDUCATION courses		
Courses	Credits	Prereq
Physical Education 1	0.5	
Health	0.5	
Choose 1 SCIENCE course		
Courses	Credits	Prereq
Integrated Science (enroll in Alg 1A)	1	
Biology 1 (enroll in Algebra 1)	1	
Biology 1 H (enroll in Honors Math)	1 *	
Choose 1 THEOLOGY course		
Course	Credits	Prereq
Theology 1	1	

**BACKUP ELECTIVES:** Please list 2 alternate elective courses you would choose if an elective course cannot be scheduled due to a conflict with other required courses:

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_

FRESHMAN ELECTIVE COURSES (choose 2)		
BUSINESS Department		
Courses	Credits	Prereq
Personal Finance (S1)	0.5	
Fundamentals of Business (S2)	0.5	
MUSIC Department		
Courses	Credits	Prereq
Beginning Guitar Level 1	1	
Intermediate Guitar Level 2	1 *	
Beginning Piano Level 1	1	
Intermediate Piano Level 2	1 *	
Advisory Band	0.5 *	
Concert Band	1	
Concert Choir	1	
SOCIAL SCIENCES Department		
Courses	Credits	Prereq
Human Geography	1	
AP Human Geography	1 *	
VISUAL ARTS Department		
Course	Credits	Prereq
Art 1	1	
WORLD LANGUAGES Department		
Courses	Credits	Prereq
French 1	1 *	
French 2	1 *	
Spanish 1	1 *	
Spanish 2	1 *	
STUDY HALL		
Course	Credits	Prereq
Study Hall	0	

\*see Curriculum Guide for prerequisite

**MARIAN CENTRAL CATHOLIC HIGH SCHOOL  
SOPHOMORE COURSE SELECTION WORKSHEET**

SOPHOMORE REQUIRED COURSES		
Choose 1 ENGLISH course		
Courses	Credits	Prereq
English 2A	1	
English 2	1	
English 2 Honors	1 *	
Choose 1 MATHEMATICS course		
Courses	Credits	Prereq
Geometry A	1	
Geometry	1	
Geometry Honors	1 *	
Algebra 2 Honors	1 *	
AP PreCalc/DC Coll Alg w/Trig	1 *	
Choose both PHYSICAL EDUCATION courses		
Courses	Credits	Prereq
Physical Education 2	0.5	
First Aid	0.5	
Choose 1 SCIENCE course		
Courses	Credits	Prereq
Biology 1	1	
Intro to Chemistry (S1)	0.5	
Intro to Physics (S2)	0.5	
Chemistry 1	1 *	
Chemistry 1 Honors	1 *	
Choose 1 THEOLOGY course		
Course	Credits	Prereq
Theology 2	1	

**BACKUP ELECTIVES:** Please list 2 alternate elective courses you would choose if an elective course cannot be scheduled due to a conflict with other required courses:

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_

SOPHOMORE ELECTIVE COURSES (Choose 2)		
BUSINESS Department		
Courses	Credits	Prereq
Accounting 1	1	
Personal Finance (S1)	0.5	
Fundamentals of Business (S2)	0.5	
ENGLISH Department		
Courses	Credits	Prereq
Journalism	1 *	
MUSIC Department		
Courses	Credits	Prereq
Beginning Guitar Level 1	1	
Intermediate Guitar Level 2	1 *	
Beginning Piano Level 1	1	
Intermediate Piano Level 2	1 *	
Advanced Piano Honors Level 3	1 *	
Advisory Band	0.5 *	
Concert Band	1	
Concert Band Honors	1 *	
Concert Choir	1	
Concert Choir Honors	1 *	
SOCIAL SCIENCES Department		
Courses	Credits	Prereq
World History	1	
AP World History: Modern	1 *	
VISUAL ARTS Department		
Courses	Credits	Prereq
Art 1	1	
Art 2	1 *	
WORLD LANGUAGES Department		
Courses	Credits	Prereq
French 1	1 *	
French 2	1 *	
French 3 Honors	1 *	
Spanish 1	1 *	
Spanish 2	1 *	
Spanish 3 Honors	1 *	
STUDY HALL		
Course	Credits	Prereq
Study Hall	0	

\*see Curriculum Guide for prerequisite

**MARIAN CENTRAL CATHOLIC HIGH SCHOOL  
JUNIOR COURSE SELECTION WORKSHEET**

JUNIOR REQUIRED COURSES		
Choose 1 ENGLISH course		
Courses	Credits	Prereq
English 3A	1	
English 3	1	
English 3 Honors	1 *	
AP English Lang & Comp	1 *	
Choose 1 MATHEMATICS course		
Courses	Credits	Prereq
Algebra 2	1	
Algebra 2 Honors	1 *	
DC College Algebra with Trig	1 *	
AP PreCalc/DC Coll Alg w/Trig H	1 *	
AP Calc/DC Calc w/Analytc Geom	1 *	
AP Statistics	1 *	
Choose 1 PHYSICAL EDUCATION course		
Course	Credits	Prereq
Physical Education 3	0.5	
Choose 1 SOCIAL SCIENCE - US HISTORY course		
Courses	Credits	Prereq
US History	1	
US History Honors	1 *	
AP US History	1 *	
Choose 1 SOCIAL SCIENCE - ECONOMICS course**		
Courses	Credits	Prereq
Consumer Economics	0.5	
AP Macroeconomics/AP Microeconomics	1 **	
Choose 1 THEOLOGY course		
Courses	Credits	Prereq
Theology 3	1	
Theology 3 Honors	1 *	

\*\* AP Macroeconomics must be taken along with AP Microeconomics and if chosen, Physical Education requirement is waived

JUNIOR ELECTIVE COURSES (Choose 2)		
BUSINESS Department		
Courses	Credits	Prereq
Accounting 1	1	
Accounting 2	1 *	
DC Introduction to Business (S1)	0.5	
DC Princ of Marketing (S2)	0.5	
DC IDEA-Honors	1 *	
ENGLISH Department		
Courses	Credits	Prereq
Journalism	1 *	
ENGINEERING Department		
Courses	Credits	Prereq
Engineering: Coding Honors	1 *	

JUNIOR ELECTIVE COURSES (continued)		
MUSIC Department		
Courses	Credits	Prereq
Beginning Guitar Level 1	1	
Intermediate Guitar Level 2	1 *	
Advanced Guitar Honors Level 3	1 *	
Beginning Piano Level 1	1	
Intermediate Piano Level 2	1 *	
Advanced Piano Honors Level 3	1 *	
Advisory Band	0.5 *	
Concert Band	1	
Concert Band Honors	1 *	
Concert Choir	1	
Concert Choir Honors	1 *	
SCIENCE Department		
Courses	Credits	Prereq
Comp Anatomy & Physiology H	1 *	
AP Biology	1 *	
Intro to Chemistry (S1)	0.5	
Intro to Physics (S2)	0.5	
Chemistry 1	1	
Chemistry 1 Honors	1 *	
Chemistry 2 Honors	1 *	
AP Chemistry	1 *	
Geoscience	0.5 *	
Space Sciences	0.5 *	
Conceptual Physics	1 *	
Physics Honors	1 *	
AP Physics 1	1 *	
VISUAL ARTS Department		
Courses	Credits	Prereq
Art 1	1	
Art 2	1 *	
Art 3 Honors	1 *	
WORLD LANGUAGES Department		
Courses	Credits	Prereq
French 1	1 *	
French 2	1 *	
French 3 Honors	1 *	
French 4 Honors	1 *	
Spanish 1	1 *	
Spanish 2	1 *	
Spanish 3 Honors	1 *	
Spanish 4 Honors	1 *	
STUDY HALL		
Course	Credits	Prereq
Study Hall	0	

\*see Curriculum Guide for prerequisite

**BACKUP ELECTIVES:** Please list 2 alternate elective courses you would choose if an elective course cannot be scheduled due to a conflict with other required courses:

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_

**MARIAN CENTRAL CATHOLIC HIGH SCHOOL  
SENIOR COURSE SELECTION WORKSHEET**

SENIOR REQUIRED COURSES		
Choose 1 ENGLISH course		
Courses	Credits	Prereq
English 4	1	
English 4 Honors	1*	
AP English Language & Comp	1*	
AP English Literature & Comp	1*	
Choose 1 PHYSICAL EDUCATION course		
Courses	Credits	Prereq
Physical Education 4	0.5	
Fitness for Life	0.5	
Choose 1 SOCIAL SCIENCE course		
Courses	Credits	Prereq
US Government & Politics Seminar	0.5	
DC US Government & Politics Seminar	0.5	
AP US Government & Politics	1**	
AP/DC US Government & Politics	1**	
Choose 1 THEOLOGY course		
Courses	Credits	Prereq
Theology 4	1	
Theology 4 Honors	1*	

\*\* AP US Government & Politics is a year-long course and if chosen, Physical Education requirement is waived

SENIOR ELECTIVE COURSES (Choose 4)		
BUSINESS Department		
Courses	Credits	Prereq
Accounting 1	1	
Accounting 2	1*	
DC Introduction to Business (S1)	0.5	
DC Principles of Marketing (S2)	0.5	
DC IDEA Honors	1*	
ENGINEERING Department		
Courses	Credits	Prereq
Engineering: Coding Honors	1*	
ENGLISH Department		
Courses	Credits	Prereq
Speech & Composition	1*	
Speech & Debate - Honors	1*	
Journalism	1*	
MATHEMATICS Department		
Courses	Credits	Prereq
Algebra 2	1	
DC College Algebra	1*	
DC College Algebra w/Trigonometry	1*	
AP PreCalculus/DC Coll Alg w/Trig H	1*	
AP Calc/DC Calc w/Analytic Geom	1*	
AP Statistics	1*	

**BACKUP ELECTIVES:** Please list 2 alternate elective courses you would choose if an elective course cannot be scheduled due to a conflict with other required courses:

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_

SENIOR ELECTIVE COURSES (continued)		
MUSIC Department		
Courses	Credits	Prereq
Beginning Guitar Level 1	1	
Intermediate Guitar Level 2	1*	
Advanced Guitar Level 3	1*	
Advanced Guitar Honors Level 4	1*	
Beginning Piano Level 1	1	
Intermediate Piano Level 2	1*	
Advanced Piano Honors Level 3	1*	
Advisory Band	0.5*	
Concert Band	1	
Concert Band Honors	1*	
Concert Choir	1	
Concert Choir Honors	1*	
SCIENCE Department		
Courses	Credits	Prereq
Comp Anatomy & Physiology H	1*	
AP Biology	1*	
Chemistry 1	1	
Chemistry 2 Honors	1*	
AP Chemistry	1*	
Geoscience	0.5*	
Space Sciences	0.5*	
Conceptual Physics	1*	
Physics Honors	1*	
AP Physics 1	1*	
SOCIAL SCIENCES Department		
Courses	Credits	Prereq
Psychology	1	
Psychology Honors	1*	
DC International Relations	1	
VISUAL ARTS Department		
Courses	Credits	Prereq
Art 2	1*	
Art 3 Honors	1*	
Art 4 Honors	1*	
WORLD LANGUAGES Department		
Courses	Credits	Prereq
French 1	1*	
French 2	1*	
French 3 Honors	1*	
French 4 Honors	1*	
Spanish 1	1*	
Spanish 2	1*	
Spanish 3 Honors	1*	
Spanish 4 Honors	1*	
STUDY HALL		
Course	Credits	Prereq
Study Hall	0	

\*see Curriculum Guide for prerequisite

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