

# Muskegon Catholic Central

Curriculum Guide Grades 7-12  
2017-2018



## Table of Contents

<b>Testing Information</b>	<b>3</b>		<b>Mathematics</b>	<b>22</b>
<b>Mission Statement/Accreditation</b>	<b>4</b>		<b>Physical Education</b>	<b>24</b>
<b>Scheduling</b>	<b>5</b>		<b>Religion</b>	<b>25</b>
<b>CAP Scores</b>	<b>6</b>		<b>Student Service &amp; Seminar</b>	<b>27</b>
<b>7<sup>th</sup> and 8<sup>th</sup> Grade Requirements</b>	<b>7</b>		<b>Science</b>	<b>28</b>
<b>7<sup>th</sup> Grade Course Descriptions</b>	<b>8</b>		<b>Social Studies</b>	<b>30</b>
<b>8<sup>th</sup> Grade Course Descriptions</b>	<b>9</b>		<b>World Languages</b>	<b>33</b>
<b>7<sup>th</sup> and 8<sup>th</sup> Grade Electives</b>	<b>10</b>		<b>Elective Offerings</b>	<b>35</b>
<b>Advisory</b>	<b>12</b>		<b>Academic Support and Tutoring</b>	<b>41</b>
<b>High School Graduation Requirements</b>	<b>13</b>		<b>Student Assistants</b>	<b>43</b>
<b>English</b>	<b>15</b>		<b>Dual Enrollment</b>	<b>44</b>
<b>Fine and Applied Arts</b>	<b>18</b>		<b>Career Technical Center</b>	<b>45</b>

# Student Testing Information

## **MAP – Required**

MAP assessments provide detailed, actionable data about where each child is on their unique learning path in the seventh grade. Measures of Academic Progress (MAP) tests present students with engaging, age-appropriate content. As a student responds to questions, the test responds to the student, adjusting up or down in difficulty. In this way, the test narrows in on a student’s learning level. The result is a rewarding experience for the student, and a wealth of detailed information for teachers, parents and administrators.

## **PSAT 8/9 - Required**

The PSAT 8/9 is the first exam in the SAT Suite of Assessments. Tightly aligned with the SAT, the PSAT establishes a baseline for college and career readiness as students enter high school. The PSAT 8/9 is designed for eighth- and ninth-graders. As part of the suite, the PSAT 8/9 will support all students with early feedback on the skills and knowledge that matter most for college and career success.

## **PSAT/NMSQT - Required**

The redesigned PSAT/NMSQT is an important part of the SAT Suite of Assessments, which also includes the SAT and PSAT 8/9. The Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) is a standardized test for tenth and eleventh grade students that provides first-hand practice for the SAT. It also gives students a chance to enter scholarship programs and gain access to college and career planning tools. The NMSQT taken in the junior year is the official route of entry to the National Merit Scholarship Program. This assessment supports a clear focus on the skills and knowledge that matter most for college and career success, and measures critical reading skills, math problem-solving skills, and writing skills.

## **SAT – Required**

The SAT and SAT Subject Tests are a suite of tools designed to assess academic readiness for college in the eleventh or twelfth grade. These exams provide a path to opportunities such as financial support and scholarships. The SAT and SAT Subject Tests keep pace with what colleges are looking for today, measuring the skills required for success in the 21st century. The SAT is a college admissions test that assesses knowledge of reading, writing and math.

## **ACT - Optional**

The ACT test assesses eleventh and twelfth grade high school students' general educational development and their ability to complete college-level work. The multiple-choice tests cover four skill areas: English, mathematics, reading, and science. The Writing Test, which is optional, measures skill in planning and writing a short essay. The ACT is a college entrance test and qualifying test for the Michigan Competitive Scholarship Program.

## **AP – Optional**

The AP (Advanced Placement) Examinations are administered each year in May to juniors and seniors and represent the culmination of college-level work in a given discipline in a secondary school setting. The AP Exams test students' ability to perform at a college level. Most four-year colleges in the United States give students credit, advanced placement or both on the basis of AP Exam scores.

# **Muskegon Catholic Central**

## **MISSION STATEMENT**

*Muskegon Catholic Schools educate each student in spirit, mind, and body by fostering personal excellence within the Catholic tradition.*

## **CURRICULUM**

Muskegon Catholic Central offers a rigorous curriculum for all of its students. Students are encouraged to take as many challenging academic courses as are appropriate for their abilities. For students who have proven their excellence in a curricular area and desire more challenging offerings, MCC offers honors and AP courses in English, Math, Science and Social Studies. Students must apply for acceptance into these classes. Each department determines the qualifications and process for acceptance. Interested students or their parents should request applications from the Counseling or 7-12 Offices. In addition to classes offered on campus, a variety of academic and vocational courses are available to students through the Career Technical Center.

## **ACCREDITATION**

Muskegon Catholic Central High School is accredited by the North Central Association.

Muskegon Catholic Central also works in accordance with and under the guidelines of the Grand Rapids Diocesan Education Office and the National Catholic Education Association.

## SCHEDULING

Scheduling is a process by which students are assigned to specific classes and is coordinated through the Counseling Office. It is the responsibility of parents and students working together with the Counseling Office to ensure that all requirements are met and that the academic program chosen is well rounded and meets individual educational objectives. The selection of classes is determined by student and parent input, grade histories, standardized test scores and teacher recommendations.

### **Scheduling Guidelines for Students and Parents**

- Students are required to take a full-day academic schedule. Students are encouraged to take as many challenging academic courses appropriate to their abilities
- Students applying for honors or AP classes must meet the deadline for application and qualify for acceptance.
- Students are required to complete 30 credits for graduation. Graduation requirements are regarded as minimums which are to be exceeded whenever possible.
- Students and parents should carefully consider course selections since the Master Schedule is determined by class requests received.
- Requests for class changes require parent, teacher, and Counseling Office approval and are subject to course prerequisites and seat availability. Course Change Request forms are available in the Counseling Office. A student may change their schedule throughout the year, to include the first week of the current Term. However, after the first week of a Term, classes for that Term may no longer be changed.
- Students must receive prior approval from the Counseling Office and High School Principal to take classes off campus to fulfill graduation requirements.
- Students and parents should be aware of the eligibility requirements established by the National Collegiate Athletic Association for college bound student athletes. Information is available in the Counseling Office.
- Classes for which students have previously earned high school credit may be retaken only with approval of the Counseling Office and High School Principal. In such cases, both the lowest and highest grades will appear on the student's transcript; however, the highest grade point average equivalency for the highest letter grade will be calculated into the cumulative G.P.A.

## CRUSADER ACADEMIC PERFORMANCE (CAP) SCORE

CAP (Crusader Academic Performance) Score is a formula that includes cumulative grade point average, standardized assessments, and advanced courses to identify students for academic awards.

### Weight:

<b>GPA</b>	<b>Advanced Courses</b>	<b>Standardized Assessments</b>
<b>50%</b>	<b>35%</b>	<b>15%</b>

Standardized assessments used in calculation of CAP Scores include PSAT 8/9 for freshmen, PSAT/NMSQT for sophomores, PSAT/NMSQT for Juniors, and SAT for Seniors.

The formula is used to identify the Top 10 students of the senior class and to select the Valedictorian and Salutatorian. The two students with the highest point-based standing will deliver the speech at Baccalaureate as they have earned this privilege by demonstrating academic excellence in terms of class performance, test scores, and a challenging curriculum.

The SAT score that will be used in the formula will be the highest score that is reported to the Counseling Office beginning with the Spring assessment taken Junior year. It is the obligation of the student to provide any additional SAT scores to the Counseling Office by April 1 of their senior year.

### Advanced Courses

Honors = 2 points per course

Advanced Placement = 3 points per course

- Students must complete the entire course in order to receive AP or Honors Points.
- Dual enrollment courses are not awarded Honors points due to the challenge of identifying curricular standards and expectations at external educational institutions.
- Courses being awarded AP and Honors Points are subject to change in order to accommodate changes in curriculum or course offerings.

## Middle School Course Policies, Requirements, and Selection

Department	Course Name	Credit
<b>Religion</b> 2 credits	Religion 7	1
	Religion 8	1
<b>English</b> 2 credits	Language Arts 7	1
	Language Arts 8	1
<b>Social Studies</b> 2 credits	World Cultures 7	1
	United States History 8	1
<b>Science</b> 2 credits	Science 7	1
	Science 8	1
<b>Mathematics</b> 2 credits	Transitional Mathematics 7	1
	Algebra	1
<b>Electives</b>	Art	.5
	Physical Education	.5
	Music (Choir or Band)	1
<i>Students in 7<sup>th</sup> and 8<sup>th</sup> grade are required to take Art, PE, <u>and</u> Music. Credits in Art and Physical Education may be waived for students participating long-term in the music program.</i>		

### **MATH ADVANCEMENT**

The advancement of a student is a decision that should be informed by data and made with much care. A student must be emotionally mature to meet the challenges of advancement, in addition to being academically prepared to work at a faster and more rigorous pace than their current instructional level. Students must demonstrate a notable aptitude for the content area otherwise the risk of pushing them too quickly could be detrimental to their learning potential through their school career.

All students wishing to advance in mathematics as they enter the seventh grade will be evaluated and appropriately placed based on teacher recommendation, the student's most recent report card, the student's most recent NWEA MAP scores, and an additional content area placement assessment. Once placed, all students are expected to move through the progression of mathematics courses outlined by the Muskegon Catholic Central curriculum.

## **ELECTIVE COURSE SELECTIONS**

All seventh and eighth grade students are required to take courses in Art, Physical Education, **and** Music (either Band or Choir) during their elective terms. Credits in Art and Physical Education may be waived for students electing to participate long-term in the music program.

Eighth grade students have the option of taking Spanish in place of their other elective offerings if the Master Schedule allows and the student is not struggling in any core content area. Because foreign language courses are designed and scheduled as a graduation requirement for High School students, an eighth grade student's schedule may not allow for them to take these courses and/or may not be developmentally appropriate until the student reaches ninth grade. Students may request these courses but will not be enrolled if it conflicts with a core content class, or if the student has not demonstrated proficiency in their academic classes

## **Course Descriptions: Grade 7**

B7001/B7002/B7003

### **LANGUAGE ARTS 7**

Grade 7

Credits: 1

Throughout the seventh grade year in Language Arts students will be studying a variety of skills including literature and the types of genres, grammar and mechanics, punctuation, vocabulary, various writing styles and techniques, speaking/listening skills, and creative thinking.

P7001/P7002

### **RELIGION 7**

Grade 7

Credits: 1

The aim of this class is to nurture in our students an ever more mature faith in Jesus Christ, a deeper knowledge and love of His person and message, and a firm commitment to follow Him. Elements covered include Doctrine, Scripture, Worship, and Morality. The class also highlights Catholic Social Teachings and parish or school ministries that students may either hear about or participate in throughout their lives.

D7001/D7002

### **INTEGRATED SCIENCE 7**

Grade 7

Credits: 1

Seventh grade Science is an integrated science which focuses on the study of cells including cell structures, transport and organization. Students will also study the water cycle, placing emphasis on fresh water and the role of the Great Lakes in our environment. During our study of the atmosphere, students will learn about the structure of the atmosphere, weather, and climate and air pollution.



E7001/E7002/E7003

**TRANSITIONAL MATHEMATICS**

Grade 7

Credits: 1

This course provides opportunities to perform basic operations involving pre-algebra skills and to use these to write mathematical expressions and to solve problems. Students will master fraction and decimal concepts, utilize basic geometry, and become familiar with functions and analysis of data. Students will build on their knowledge of reading mathematical problems, problem solving, graphing and calculator use.

C7001/C7002

**WORLD CULTURES 7**

Grade 7

Credits: 1

In this required course students study the Eastern Hemisphere from its origins through the present. Students will study patterns of change and continuity, including when and how human communities populated major regions of the Eastern Hemisphere and adapted to a variety of environments. They will explain the impact of the Agricultural Revolution in the various regions. They will learn to locate the major landforms, rivers, and climate regions of the Eastern hemisphere. Students will also define the concept of cultural diffusion and how it resulted in the spread of ideas and technology from one region to another.

## **Course Descriptions: Grade 8**

E1011/E1012/E1013/E1014

**ALGEBRA**

Grades 8-9

Credits: 1

This course provides an opportunity to learn about: Algebra to describe and explain, solve linear equalities and inequalities, division and proportions, slopes and lines, to describe patterns of change, powers and roots, quadratic equations and functions, linear systems and polynomials

C8001/C8002

**AMERICAN HISTORY 8**

Grade 8

Credits: 1

Students will study the essential historical themes in the context of American history. This course will offer a review of our Colonial Heritage, and then offer an in-depth look at American History from the American Revolution through Reconstruction.

B8001/B8002/B8003  
**LANGUAGE ARTS 8**  
Grade 8

Credits: 1

Throughout the eighth grade year in Language Arts students will be analyzing several types of literature, both fiction and non-fiction. Students will also learn correct grammar, mechanics, and punctuation. Students will incorporate vocabulary into various writing styles which include narratives, research, and literary response. Students will also learn crucial speaking and listening skills, as well as creative and logical thinking.

P8001/P8002  
**RELIGION 8**  
Grade 8

Credits: 1

The focus of this course is to explore the history of the Catholic Church. Our aim is to nurture in our students an ever more mature faith in Jesus Christ, a deeper knowledge and love of His person and message, and a firm commitment to follow Him. Weekly Mass participation will also be required and will be reflected in the participation grade.

D8001/D8002  
**SCIENCE 8**  
Grade 8

Credits: 1

Eighth grade Science is an integrated science class which focuses on the study of human anatomy including the skeletal, muscle, integumentary, digestive, respiratory, excretory, circulatory and reproductive systems. Students will study chemistry, including the periodic table, structure of atoms and some basic principles in chemistry. In astronomy, students will learn about the history of space exploration, the sun, moon, planets and other galaxies. Students will study velocity, acceleration and Newton's Laws of Motion. Students will also discuss electricity and magnetism.

## **Elective Offerings: Grades 7-8**

L7811/L7812  
**ART 7/8**  
Grades 7-8

Credits: 0.5

This course gives the Middle School student the opportunity to explore a variety of art making. Projects include drawing, painting, ceramics, commercial art, weaving, and 3-D work. All projects focus on using the Elements and Principles of Art. The Middle School student also has an opportunity to work together on an outreach project of their choice (Ragdolls for the World, International Day of Peace, etc.)

J7803/J7804

**BAND 7/8: Concert Band**

Grades 7-8

Credits: 1

The Concert Band is a full semester class comprised of students in grades 7-8, and is a beginner to intermediate ensemble. Students in Fall Concert Band will perform at two concerts. The Fall Concert Band will play a variety of literature, ranging from works for beginning band to level-appropriate arrangements of current popular music. A strong emphasis will be placed on the basics of playing an instrument, basic note-reading and music theory, and musical terms and their definitions.

J7803/J7804

**BAND 7/8: Symphonic Band**

Grades 7-8

Credits: 1

The Symphonic Band, or Spring Concert Band, is a full semester class comprised of students in grades 7-8, and is an intermediate ensemble. Students in Spring Concert Band will perform at two concerts. The Spring Concert Band will play a variety of literature, ranging from works for intermediate band to level-appropriate arrangements of current popular music. A strong emphasis will be placed on reviewing the basics of playing an instrument, note-reading and music theory, and musical terms and their definitions. Analysis of selected listening examples will also be included.

J7801/J7802

**CHOIR 7/8**

Grades 7-8

Credits: 1

Students enrolled in this course will learn the basics of vocal technique, music theory, piano skills, and music history through the preparation and performance of choral music. All choir students are required to sing for Elementary and 7-12 Masses each week during school, as well as to sing in a concert which will take place toward the end of each term. Students are expected to take choir for at least 2 consecutive terms.

M7811/M7812

**PHYSICAL EDUCATION 7/8**

Grades 7-8

Credits: 0.5

This course is designed to develop the fitness level of students. Techniques in individual and team sports concepts will be stressed. The class will focus on fitness, team sports, and sportsmanship in competition.

# ADVISORY

A0711/A0712/A0811/A0812

## **ADVISORY**

Grades 7-8

Credits: 0.5

Advisory is a mandatory, year-long mini-course designed to help balance academic life with future goals. With student success in mind, advisors will facilitate lessons on a variety of topics geared toward college and career readiness two times per week. Advisors will also discuss student grades and academic progress, as well as any concerns students may have about their courses. By the end of the course students will be thinking about future goals and planning how to get there, developing skills and supports for academic and personal success, demonstrating motivation and a sense of purpose, and advocating for needs by regularly discussing achievement with school staff.

## High School Graduation Requirements (Classes 2016 -2018)

Department	Course Name (Regular)	Course Names (Honors)	Credit		Department	Course Name	Credit
<b>RELIGION</b> 4 credits	Catholic Faith Morality and Sacraments Hebrew and Christian Scriptures Catholic Social Teaching and World Religion		1 1 1 1		<b>FINE OR APPLIED ARTS</b> 1 credit	Options: Art, Drafting and Technical Design, Band, Choir, Yearbook, Theater, Fiber Arts, Ceramic Arts, Commercial Arts, and Painting	.5 credit per term
<b>ENGLISH</b> 4 credits <i>Honors: 4.5 credits</i>	Composition/Literature American Literature British Literature World Literature	Comp/Literature H American Literature H British Literature H AP English	1 1 1 1 or 1.5		<b>PHYSICAL EDUCATION</b> ½ credit	Options: Physical Education, Men's/Women's Conditioning, and Conditioning II <i>(Waived by participation in any two seasons of school related athletics.)</i>	.5 credit per term
<b>SOCIAL STUDIES</b> 3.5 credits <i>Honors: 4.5 credits</i>	World History United States History Government/Economics Political Science	World History United States History H Gov't/Economics H AP Comparative Gov't	1 1 1 .5 or 1.5		<b>Senior Service and Seminar</b> ½ credit	Please see the service and seminar section of the course guide.	.5
<b>SCIENCE</b> 3 credits <i>Honors: 4.5 credits</i>	Biology Integrated Science Chemistry or Physics	Biology Integrated Science H AP Chemistry Anatomy or Physics	1 1 1 or 1.5 1		<b>Electives</b> 3.5 credits	See Available Elective Offerings	.5credit per term
<b>MATHEMATICS</b> 4 credits <i>1 credit of Math in 12th Grade is required.</i>	Algebra Geometry Advanced Algebra FST or Math Elective	Algebra Geometry Advanced Algebra FST PDM AP Calculus	1 1 1 1 1 1.5		<b>Advisory</b> 4 credits		.25 credit per term
<b>WORLD LANGUAGE</b> 2 credits	French or Spanish <i>(minimum of 2 years of the same world language)</i>		2		<b>TOTAL CREDITS FOR HIGH SCHOOL GRADUATION 30</b>		

## High School Graduation Requirements (Classes 2019 and Beyond)

Department	Course Name (Regular)	Course Names (Honors)	Credit	Department	Course Name	Credit
<b>RELIGION</b> 4 credits	Catholic Faith Morality and Sacraments Hebrew and Christian Scriptures Catholic Social Teaching and World Religion		1 1 1 1	<b>FINE OR APPLIED ARTS</b> 1 credit	Options: Art, Band, Choir, Yearbook, Theater, Fiber Arts, Ceramic Arts, Commercial Arts, and Painting	.5 credit per term
<b>ENGLISH</b> 4 credits  <i>Honors: 4.5 credits</i>	Composition/Literature American Literature British Literature World Literature	Comp/Literature H American Literature H British Literature H AP English	1 1 1 1 or 1.5	<b>PHYSICAL EDUCATION</b> $\frac{1}{2}$ credit  <b>HEALTH</b> $\frac{1}{2}$ credit	Options: Physical Education, Men's/Women's Conditioning, and Conditioning II ( <i>PE credit waived by two seasons of school related athletics.</i> )	.5 credit per term   .5 credit per term
<b>SOCIAL STUDIES</b> 3.5 credits  <i>Honors: 4.5 credits</i>	World History United States History Government/Economics Political Science	World History United States History H Gov't/Economics H AP Comparative Gov't	1 1 1 .5 or 1.5	<b>Senior Service and Seminar</b> $\frac{1}{2}$ credit	Please see the service and seminar section of the course guide.	.5
<b>SCIENCE</b> 3 credits  <i>Honors: 4.5 credits</i>	Biology Integrated Science Chemistry or Physics	Biology Integrated Science H AP Chemistry Anatomy or Physics	1 1 1 or 1.5 1	<b>Electives</b> 3 credits	See Available Elective Offerings	.5credit per term
<b>MATHEMATICS</b> 4 credits  <i>1 credit of Math in 12th Grade is required.</i>	Algebra Geometry Advanced Algebra FST or Math Elective	Algebra Geometry Advanced Algebra FST PDM AP Calculus	1 1 1 1 1 1.5	<b>Advisory</b> 4 credits		.25 credit per term
<b>WORLD LANGUAGE</b> 2 credits	French or Spanish <i>(minimum of 2 years of the same world language)</i>		2	<b>TOTAL CREDITS FOR HIGH SCHOOL GRADUATION 30</b>		

# Course Descriptions: Grades 9-12

## ENGLISH DEPARTMENT

All students, grades 7 -12, will be required to complete an independent reading assignment called “Extended Reading.” Muskegon Catholic Central English department provides a solid college preparation program for all its students, taking great measures to ensure that each student has multiple opportunities to spend time reading independently from the course they are registered for.

B1011/B1012

### COMPOSITION/LITERATURE

Grade 9

Credits: 1

Composition and Literature 9 is designed to give students a taste of world literature in preparation for college. The literary focus will encompass both fiction and non-fiction, focusing on various short stories and poems spanning the 17<sup>th</sup>-21<sup>st</sup> centuries. In addition to expanding literary knowledge, this course is designed to build foundational vocabulary skills, which students will be expected to incorporate regularly. Lastly, this course will teach each student how to become an effective analytical thinker and writer about literature, teaching them the skills to master both language and punctuation in writing.

B1021/B1022

### COMPOSITION/LITERATURE HONORS

*Honors Points: 2*

Grade 9

Credits: 1

Honors Composition and Literature 9 is designed to give students a taste of world literature in preparation for college. The literary focus will encompass both fiction and non-fiction, focusing on various short stories, poems, and novels spanning the 17<sup>th</sup>-21<sup>st</sup> centuries. In addition to expanding literary knowledge, this course is designed to build fundamental literary concept and vocabulary skills. Students will most certainly be expected to incorporate the terms they learn into their writing (as well as their speech). Lastly, this course will teach each student how to become an effective analytical thinker and writer about literature, teaching them the skills to master both language and punctuation in writing. This course will certainly push students academically and demand regular participation.

***PREREQUISITE: Honors Application/Department Approval***

B2011/B2012

**AMERICAN LANGUAGE/LITERATURE**

Grade 10

Credits: 1

Students will explore American literature through focused reading of various works, including short stories, essays, plays, poetry, and novels. While exploring literature throughout American history, students will consider how relationships are formed, how relationships impact others, and their responsibility to society. Through numerous reading activities, students build vocabulary, comprehension, and stamina. In writing, students will work toward a more accurate application of grammar rules, a more substantive development of craft, as well as content, and a more fluid construction of sentences.

B2021/B2022

**AMERICAN LANGUAGE/LITERATURE HONORS**

*Honors Points: 2*

Grade 10

Credits: 1

Honors Composition and American Literature is designed to give students a deep understanding of American literature in preparation for college. The literary focus will encompass both fiction and non-fiction, focusing on various short stories, poems, and novels spanning the 18th-21st centuries. In addition to expanding literary knowledge, this course is designed to build fundamental literary concept and vocabulary skills. Students will be expected to incorporate the terms learned into both writing and speech. Lastly, this course will teach students how to become effective analytical thinkers and writers about literature, teaching skills to master both language and punctuation in writing.

***PREREQUISITE: Honors Application/Department Approval***

B3011/B3012

**BRITISH LITERATURE**

Grade 11

Credits: 1

Through studying British literature, students will explore the components of heroism, the significance of choices, the effects of technology, and the structure of society. In addition to literature and vocabulary, a variety of writing styles will be studied, along with a review of grammatical rules. We will be using various poetry, short stories, and novels as a springboard for top issues and ideas relevant to the human condition and to the daily navigation of our individual lives. The curriculum, is literature based, but with emphases on the refinement of written and oral expression, and especially on the development of the writer's personal style

B3021/B3022

**BRITISH LITERATURE HONORS**

*Honors Points: 2*

Grade 11

Credits: 1

Honors British Literature is designed to give students a serious “crash course” in English literature, approximately 1500 years of English literature! Our literary focus will begin at the beginning with *Beowulf*, incorporating numerous classic and contemporary pieces, ending somewhere in the 20<sup>th</sup>



century. The first part of the course will primarily be focused on poetry and drama; the second part of the course will provide and will incorporate a variety of essays, poems, short stories, and a novel (or two). In addition to expanding students' growing literary knowledge, this course is designed to advance their literary concept knowledge, through both recognition and application, as well as increase standard vocabulary skills. Students will most certainly be expected to incorporate the terms they learn into their writing (as well as their speech). Lastly, this course will teach each student how to become an effective analytical thinker and writer about British literature, teaching them the skills to master both language and punctuation in writing. This course will certainly push students academically, requiring outside reading and demanding regular participation.

***PREREQUISITE: Honors Application/Department Approval***

B4011/B4012

**WORLD LITERATURE**

Grade 12

Credits: 1

This course offers a global approach to literature and literary non-fiction of the 20th century to the present. Emphasis is placed on critical analysis and research skills necessary for success in college. Students will also write creatively by developing their own poems, short stories, and essays. Contemporary issues and mature language may be encountered in the readings.

B4021/B4022/B4023

**ADVANCED PLACEMENT ENGLISH**

*Honors Points: 3*

Grade 12

Credits: 2

AP Literature is meant to be the equivalent of two semesters of a college-level literature and writing course. Its design and content is geared toward preparation for the College Board's AP exam in English Literature and Composition, which will be given in May. In this class, students will engage in extensive reading, writing, and analytical thinking while exploring college level texts which will enhance literary scope.

Those who excel in the course will be encouraged to take the national Advanced Placement test in May. Passing the test with a score of 3, 4 or 5 provides an opportunity to gain advanced placement and/or credit, according to the policy of the student's selected college.

***PREREQUISITE: Honors Application/Department Approval***

# FINE & APPLIED ARTS DEPARTMENT

K4901

## **THEATRE**

Grades 9-12

Credits: 0.5

This class is designed to familiarize students with theatre arts. Students will apply skills and knowledge to perform and create in the Arts. They will analyze, describe, and evaluate theatrical works. They will understand, analyze, and describe the arts in their historical, social, and cultural contexts. They will integrate the arts and media in informal presentations.

K4902

## **SPEECH**

Grades 9-12

Credits: 0.5

Students will study ways to initiate and participate effectively in a range of collaborative discussions. They will learn to integrate multiple sources of information presented in diverse media or formats, evaluating the credibility or accuracy of each source, and they will learn to evaluate a speaker's point of view. They will learn to present information clearly, logically, and appropriately, such that listeners can follow the line of reasoning and organization. The students will make strategic use of digital media in presentations to add interest.

K4903

## **MULTICULTURAL ARTS**

Grades 9-12

Credits: 0.5

Multicultural Arts is a quarter-long class comprised of students in grades 9-12, in which the art of other cultures is examined with a focus on music and musical traditions. Students in Multicultural Arts will learn about America's musical history and culture, and through self-reflection and awareness, compare similarities and differences between other cultures and our own with regards to music and general cultural areas. Students in this class will also develop information synthesis and presentation skills.

K1011/K1012/K1013

## **YEARBOOK**

Grades 10-12

Credits: 1.5

Yearbook is an exciting, challenging, and fun class, where students will learn about page layout and design, publishing, journalism, photography, and business skills. They will learn to very quickly work as a team, which is so advantageous when working on a task of this magnitude. Being a member of this staff is an awesome responsibility, and by the end of the year, students will have produced a book that is valued by the entire MCC community.

***PREREQUISITE: Instructor's Approval***

## Art

L1011

**ART I: Studio I**

Grades 9-12

Credits: 0.5

This course is designed to introduce the art student to 2-D and 3-D art. The student will have an opportunity to explore art making with pencil, paint, collage, clay, fibers and sculpture. There will also be an Art History component sprinkled throughout the term. Studio Art I is a requirement to take other art classes. This class is meant to introduce, explore and enlighten the student to the world of art-making and creative thinking.

L1012

**ART HISTORY**

GRADES: 9-12

Credits: 0.5

Did you know that the first drawings known to mankind were found on the walls of caves during the Paleolithic period? So much of our humanity is understood by looking at art through the ages. From Paleolithic to Contemporary art, this class is for those interested in taking the journey of mankind through its art-making. Along with looking at art, we will also listen and look at some of the other art forms that make up Art periods and movements. This class does not require any art skills - - just an interest in learning about the history of art and the people/cultures involved. This nine-week class does not have any pre-requirement to enroll.

L1013

**FIBER ARTS**

**GRADES 9-12**

Credits: 0.5

Have you had your fiber today? This class will have you creating art using natural or synthetic yarn, cloth, plastic, recycled products or other materials. We will spin yarn from sheep wool, dye it, and make a creation. Soft sculptures, needlepoint, and other techniques will be introduced. This class does not have a pre-requisite.

L1014

**COMMERCIAL ART**

**GRADES 9-12**

Credits: 0.5

If you are interested in Advertising or Graphic Arts, this is the class for you. This class will include the study of Type design, product design, signs, posters, logo design and art projects that advertise a product or express an idea. If you have a strong sense of spatial design and want to create a piece of work to promote, explain, narrate or inform, sign up now! There is no pre-requisite for this class.

L2011

**ART II: Studio II**

Grades 9-12

Credits: 0.5

This course is designed to develop skills learned from Studio Art I, and create work on a higher level. The student will make art using a variety of medium. In addition, there is a writing component of critique, reflection and analysis. Coinciding with required projects the student will work on a Semester Project of their choosing that is presented at the end of the semester. For those students who are returning, there is an opportunity to work on independent projects to build a comprehensive portfolio.

***PREREQUISITE: Studio 1***

L3011

**ADVANCED ART: Ceramics**

Grades 9-12

Credits: 0.5

This course is for the art student that has met the requirements of the previous art classes and wants to work on independent projects to explore specific art medium and build their art portfolio. The student is required to be self-motivated and focused on their art-making. The student will meet with the teacher to design the projects and goals for the semester. The student is required to present their work in an organized fashion, along with statements and reasons for their work for the semester final. In addition, the Advanced Art student is required to research an artist, Art Movement, or Art Period to be turned in at the end of the semester.

The student will make a variety of projects starting with the basic pinch pot. Most of the projects are hand-built with an opportunity to “throw” a piece on the potter’s wheel. The student will be required to submit an idea and complete a semester project. The student is expected to understand the process of wedging and reclaiming clay, glazing, firing, and loading a kiln. Also, they are expected to take care of the clean-up process. For the returning Ceramic student, the projects will be in greater depth with an opportunity for the student to work on an independent basis.

***PREREQUISITE: Studio Art 1 and 2.***

L3012

**ADVANCED ART: Painting**

Grades 9-12

Credits: 0.5

This course is for the art student that has met the requirements of the previous art classes and wants to work on independent projects to explore specific art medium and build their art portfolio. The student is required to be self-motivated and focused on their art-making. The student will meet with the teacher to design the projects and goals for the semester. The student is required to present their work in an organized fashion, along with statements and reasons for their work for the semester final. In addition, the Advanced Art student is required to research an artist, Art Movement, or Art Period to be turned in at the end of the semester.

The Painting class covers color theory and uses a variety of paint medium. The student has an opportunity to express themselves through Abstract art as well as paint from observation. There will also be a requirement for the student to research a painter of their choosing and create a piece that “mimics” that artist. For the returning Painting student, they will be expected to work on projects independently to build their portfolio.

**PREREQUISITE:** *Studio Art 1 and 2.*

## Music

J1011/1012

### **HIGH SCHOOL CHOIR**

Grades 9-12

Credits: 1

Students enrolled in this course will learn and develop vocal technique, music theory, piano skills, and music history through the preparation and performance of choral music. All choir students are required to sing for 7-12 Masses each week during school, as well as to sing in a concert which will take place toward the end of each term. There will also be other performance requirements which will be announced as they arise. Students are expected to take choir for at least 2 consecutive terms.

J1021/1022

### **HIGH SCHOOL CHOIR SPLIT: High School Choir**

Grades 9-12

Credits: 0.25

Students sharing their time between Choir and Band will receive 0.25 credits in each course for a total of 0.5 credits for each term or 1 credit for the semester.

J1023/J1024

### **HIGH SCHOOL BAND SPLIT: Symphonic or Jazz Band**

Grades 9-12

Credits: 0.25

Students sharing their time between Choir and Band will receive 0.25 credits in each course for a total of 0.5 credits for each term or 1 credit for the semester.

J1013/J1014

### **SYMPHONIC BAND**

Grades 9-12

Credits: 1

The Symphonic Band is a full semester class comprised of students in grades 9-12, and is an intermediate to advanced instrumental music

ensemble. Students in Symphonic Band will perform at various events, including band festival, two concerts, and the high school graduation ceremony. The Symphonic Band will play a variety of literature, ranging from classic symphonic wind music to new arrangements of popular tunes. A strong emphasis will also be placed on music theory and listening.

J2013/J2014

### **JAZZ BAND**

Grades 9-12

Credits: 1

The Jazz Band is a full semester class comprised of students in grades 9-12, and is an intermediate to advanced instrumental music ensemble. Students in Jazz Band will perform at various events, including at least two concerts and run-out performances as applicable. Class-time will focus on the elements of jazz including history, theory, and interpretation, and songs will be chosen to represent various jazz styles. Students will learn to improvise and be comfortable soloing within the blues form, and a basic understanding of Latin rhythms and performance styles will also be included.

## **MATHEMATICS DEPARTMENT**

A mathematics course must be taken in the senior year, with no exceptions. Taking four credits of math prior to the senior year does not satisfy the requirement of having to take a mathematics course in the senior year. Students are highly encouraged to advance in the regular mathematics curriculum, but the credit may also be earned in a math-related course as determined by the school. Courses that qualify for senior year math include Business/Personal Finance, Technical Design, or Physics – but only after the successful completion of Algebra II. Physics may only be counted as a senior math credit if the student has already satisfied all other Science requirements. Taking a math-related course to satisfy the senior year credit will be based upon department recommendation and guidance office approval.

E1011/E1012/E1013/E1014

### **ALGEBRA**

Grades 8-9

Credits: 1

This course acts as an introduction to the language of Algebra and the ways it is used in the real world, while integrating geometry, probability, and statistics with a variety of approaches and use of technology. It introduces skills, properties, uses, and representations of algebraic concepts and skills. Multiple approaches to expressions, equations, and functions are presented. Topics are presented tabularly, graphically, and symbolically. Graphing calculators are encouraged to develop algebraic concepts and algebraic reasoning skills. Topics include linear, exponential and quadratic functions, powers, roots and polynomials. Students are taught how to visualize algebraic concepts physically and graphically. Students must have a scientific calculator available everyday and a TI-83 or a TI-84 is recommended.

E1021/E1022

### **GEOMETRY**

Grades 9-10

Credits: 1

The study of formal logic and proof helps students to understand the axiomatic system that underlies mathematics through the presentation and development of postulates, definitions, and theorems. It is essential that students develop deductive reasoning skills that can be applied to both mathematical and real-world problems contexts. Successful post-secondary engagements requires that students must be able to apply knowledge in new situations; to solve problems by generating new ideas; and to make connections between what they read and hear in class and the world around them. During high school, students begin to formalize their geometry experiences from elementary and middle school, using more precise definitions and developing careful proofs. Analytic geometry connects algebra and geometry, resulting in powerful methods of analysis and problem solving.

E2011/E2012

**ADVANCED ALGEBRA**

Grades 10-11

Credits: 1

This course emphasizes the work with quadratic expressions and equations, powers, roots, and the functions based on these concepts. Students study exponential logarithmic, polynomial, and other special functions as tools for modeling real-life situations. This course also serves as an introduction to trigonometry. Students will also learn to use the graphing calculator as a tool in enhancing understanding and improving problem-solving skills. It is recommended that students taking this course have a TI-83/84 calculator.

E3011/E3012

**FUNCTIONS, STATISTICS, & TRIGONOMETRY**

Grades 11-12

Credits: 1

This course provides an important study of data analysis and statistics. Statistics and algebraic concepts are integrated as students display, describe, transform, interpret, and model numerical data. Trigonometric functions are integrated with the study of exponential, logarithmic, and polynomial functions, sequences and series, and probability and simulation. The frequent use of a graphic calculator is assumed and it is recommended that students taking this course have a TI-83/84 or other graphics calculator.

***PREREQUISITE: Minimum C- in Advanced Algebra or Department Recommendation.***

E4011/E4012

**PRECALCULUS & DISCRETE MATH**

*Honors Points: 2 ("B" or better)*

Grades 11-12

Credits: 1

This course emphasizes work in trigonometry, polar coordinates and complex numbers as well as the discrete mathematics topics of recursion, formal logic, mathematical induction, and graph theory. Also included is an informal investigation of traditional calculus topics such as maxima and minima, infinite sequences, limits, derivatives, and integrals. The focus of the course will be a study of the topics through real-world applications and the use of the graphing calculator. It is recommended that students taking this course have a TI-83/84 or other graphics calculator for home use.

***PREREQUISITE: Minimum C- in FST or Department Recommendation.***

E4021/E4022/E4023

**ADVANCED PLACEMENT CALCULUS (AB)**

*Honors Points: 3*

Grade 12

Credits: 2

This course pulls together what students have studied in Algebra, Geometry, Algebra II, and Pre-Calculus (FST & PDM). This course provides the opportunity for students to work with functions represented in a variety of ways such as graphically, numerically, analytically, and verbally, and emphasizes the connections among these representations. Students will also learn how to communicate mathematics and explain solutions to problems both verbally and in written sentences. This class is taught with the assumption that students will be taking the AP Calculus AB exam; therefore exam preparation will be a critical part of this course. Those who excel in the course will be encouraged to take the national Advanced Placement test in May. Passing the test with a score of 3, 4 or 5 provides an opportunity to gain advanced placement and/or credit, according to the policy of the student's selected college.

***PREREQUISITE: Minimum C- in PDM and Department Recommendation.***

## **PHYSICAL EDUCATION DEPARTMENT**

A maximum of three (3) terms of physical education can be counted toward fulfilling the necessary credit requirements for graduation. Participation in any two complete seasons of high school athletics or marching band fulfills the PE graduation requirement.

M1012

**HEALTH**

Grades 9-12

Credits: 0.5

Health explores the following topics: Nutrition, fitness, drugs and drug abuse, the truth about alcohol, the truth about tobacco, STDs and reproduction, as well as first aid and CPR.

M1011

**PHYSICAL EDUCATION**

Grades 9-12

Credits: 0.5

This course is designed to provide students with an opportunity to develop and enrich their physical fitness level. Individual and team sports will be stressed. Instruction will involve techniques and sports rules. Weight room work will provide the student a structure to improve their strength and fitness levels. This class will help student fitness level, improve sports skills and promote sportsmanship through the team activities.

M4901



## **MEN'S CONDITIONING & WEIGHT TRAINING**

Grades 9-12

Credits: 0.5

This course is designed to provide students with an opportunity to develop and enrich their physical strength and fitness level. Instruction and refinement of weightlifting techniques will be stressed. An individualized program is available to provide the student with a framework to improve their strength and fitness levels. This class will help prepare students for the physical demands of interscholastic sports as well increasing flexibility and agility.

M4902

## **WOMEN'S CONDITIONING & WEIGHT TRAINING**

Grades 9-12

Credits: 0.5

This course is designed to provide students with an opportunity to develop and enrich their physical strength and fitness level. Instruction and refinement of weightlifting techniques will be stressed. An individualized program is available to provide the student with a framework to improve their strength and fitness levels. This class will help prepare students for the physical demands of interscholastic sports as well increasing flexibility and agility.

M4903

## **CONDITIONING II - 5K**

Grades 10-12

Credits: 0.5

This course is appropriate for beginning, intermediate, and advanced runners and offers a variety of training schedules for each. In addition to reviewing the fundamental principles of fitness, students learn about goals and motivation, levels of training, basic running mechanics, safety and injury prevention, appropriate attire, running in the elements, good nutrition and hydration, and effective cross-training. While this course focuses mainly on running for fun and fitness, it also briefly explores the realm of competitive racing. This class will culminate with the successful completion of a 5K, 10K, or Half-Marathon race, depending on the student's preference. Students will take both a pre and post fitness assessment. Throughout this course students also participate in a weekly fitness program involving running, as well as elements of weight training and flexibility.

Prerequisite: Successful completion of Conditioning & Weight Training

# **RELIGION DEPARTMENT**

P1011/P1012

## **OUR CATHOLIC FAITH**

Grade 9

Credits: 1

The Catholic Faith course focuses on the Catholic faith in the Triune God, but it does not neglect the beliefs of other religions. The teachings of the

Church in the area of ecumenism are covered, which are teachings that explain how God wills the salvation of all and how some means of sanctification can be found outside of Christ's Church. Students will articulate how faith enables us to believe in God and all that He has revealed. The student will examine how faith results in religion that binds us into a relationship, and how faith is a response to God's revelation and requires obedience or the submission of one's will to God. Students will articulate an understanding of how the Magisterium of the Church is responsible for interpreting and transmitting Catholic belief and teachings that are found in Sacred Scripture and Tradition, along with examining how Christ established the Church, through the interaction of the Holy Spirit and Apostles. In addition to chapter readings, students will have projects and activities to solidify their understanding of the Catholic Faith.

P2011

**MORALITY**

Grade 10

Credits: 0.5

This course will challenge the student to recognize God's plan for humanity. It will explore God's plan, revealed through natural and divine law and is designed to help students shape their consciences and recognize virtuous choices based on the Catholic faith. This course examines the moral teaching of the Catholic Church. It provides students with a catholic foundation for building a moral life and a deeper relationship with Jesus Christ.

P2012

**SACRAMENTS**

Grade 10

Credits: 0.5

Through this course, the student will understand the concept and importance of sacraments in the life of a Catholic. Students will demonstrate an understanding of concepts underlying the Catholic sacramental vision: sacramental awareness, grace, symbols, rituals and prayer. This course will describe the relationships between Jesus, the Church and the seven sacraments. Students will identify major developments in the history of the sacraments in general and of the seven sacraments in particular. Major symbols used in each of the seven sacraments and the key aspects of each ritual will be studied.

P3011

**HEBREW SCRIPTURE**

Grade 11

Credits: 0.5

This course introduces students to the Sacred Scripture and lays the foundation for continued studies in the Catholic Faith. The course traces a path through salvation history, explains the various books of the bible, and shows the importance of each event in salvation history. Students will be taught the stories of the Old Testament and given the tools to properly understand them under the guidance of the Magisterium of the Church. A particular emphasis is placed on the ongoing Covenant that God has established with humanity.

P3012

**CHRISTIAN SCRIPTURES**

Grade 11

Credits: 0.5

Through studying the New Testament, students will discover the structure, development and nature of the Bible and will come to know that God continues to reveal Christ to us in our daily life. The Church's understanding of Jesus is at the heart of everything that Catholics believe in, do, and are, as persons of faith. The New Testament together with the living faith tradition of the Church provides the basis for the Catholic Christian Faith. This course teaches the scriptural roots of our faith as found in the Gospels, Acts of the Apostles and letters of Paul. This course also invites the students to grow in their love and understanding of the New Testament and of Jesus Christ of History who is also the Christ of Faith.

P4011

**CATHOLIC SOCIAL TEACHING**

Grade 12

Credits: 0.5

This course will look at the Church's social teachings and traditions dealing with issues of justice. This will be done by critically analyzing Papal, Encyclicals, Episcopal teachings, and the live tradition of scripture in dealing with contemporary issues of social sins. This course examines how we live God's plans with others. It takes into account that what we do as individuals affects the world around us. The course also examines the roots of justice in Scriptures and in Vatican documents. The Christian Vocations component addresses God's plan for each of us. It helps students consider how they are people of faith in the world. Students will examine how they might discern God's plan and respond to God's call in their lives.

P4012

**WORLD RELIGIONS**

Grade 12

Credits: 0.5

This course will explore religions of the world through a Catholic perspective. Students will compare and contrast these religions with the Catholic faith. This course will examine the history, basic beliefs, sacred scriptures, sacred places and sacred times of Judaism, Christianity, Buddhism, Hinduism, Islam, Japanese and Chinese religions.

## **Student Service & Senior Service Seminar**

G4000

**STUDENT SERVICE & SENIOR SEMINAR**

Grades 9-12

Credits: 0.5

**STUDENT SERVICE**

A companion to all religious learning, students will live out Christ's call to service, acknowledging that service is an integral part of the baptismal commitment. Service is a graduation requirement at Muskegon Catholic Central. The details of each academic year's service requirements can be found in the Muskegon Catholic Service manual. In order to successfully earn the service credit at the end of a student's senior year, a student must have shown that they successfully completed each year's worth of service requirement for their four years at Muskegon Catholic Central. The

Campus Ministry department will oversee and verify the completion of all service requirements.

### **SENIOR SERVICE SEMINAR**

Because we cannot separate our humanity from the life experiences we encounter, the MCC Counseling Department and Campus Ministry work collaboratively to get students thinking about their senior service hours as Challenge Based Learning opportunities. Challenge Based Learning is intended to be collaborative and hands-on, asking students to work with other students, their teachers, and experts in their communities and around the world to develop deeper knowledge of the subjects students are studying, accept and solve challenges, take action, share their experience, and enter into a global discussion about important issues. Students will be asked to evaluate a known or perceived unmet need they encountered, while giving their time, from the perspective of their top career choice or pathway and developing plausible solutions. Again, the evaluation and the plausible solutions will be from the perspective of students in their future career or pathway.

## **SCIENCE DEPARTMENT**

Four credits of Science are required in the Honors program, and strongly recommended for all other students. Students will receive 2 Honors points for successfully completing a fourth credit of Science with a B or better.

D1011/D1012

### **BIOLOGY**

Grade 9

Credits: 1

In Biology students will explore the following topics with the goal of gaining a greater understanding of the living world: introduction to Biology, classification and taxonomy, animals, plants, cell structure and function, cell energy, cell transport, Biochemistry, cell reproduction, DNA and genetics, Biotechnology, Evolution, and Ecology.

D2011/D2012

### **INTEGRATED SCIENCE**

Grade 10

Credits: 1

In Integrated Science students will explore the following topics with the goal of mastering introductory chemistry concepts while reviewing important earth science, physical science, and biology concepts: doing science safely, atomic structure, elements and compounds, states of matter, properties of matter, periodic table, nomenclature, physical changes, chemical changes, balancing reactions, bonding, molarity, and mixtures.

D2021/D2022

### **INTEGRATED SCIENCE HONORS**

*Honors Points: 2*

Grade 10

Credits: 1

In Integrated Science Honors students will explore the following topics with the goal of mastering introductory chemistry concepts while reviewing important earth science, physical science, and biology concepts: doing science safely, atomic structure, elements and compounds, states of matter, properties of matter, periodic table, nomenclature, physical changes, chemical changes, balancing reactions, bonding, molarity, and mixtures.

This course is designed for the highly ambitious or scientifically curious sophomore. The emphasis is more on the chemistry side of the physical sciences although earth science and physics will play vital roles in this class. Students are expected to go on to AP Chemistry as a junior and then take either Anatomy or Physics or both in their high school career.

***PREREQUISITE: Honors Application/Department Approval***

D3011/D3012

**CHEMISTRY**

Grade 11- 12

Credits: 1

This course is designed for students, most of who have some interest in science but feel it can be a little intimidating with “the entire math”. Students will strengthen student quantitative reasoning and problem solving skills, be held accountable for their own learning, and learn the year’s curriculum so that they have a solid foundation in chemistry so that they are not intimidated to move on to the next level of science in High School or college.

D3013/D3014

**PHYSICS**

Grade 11-12

Credits: 1

This course is designed for qualified students most of whom have a strong interest in science. A strong emphasis is put on the fact that Physics is a college-prep course designed to bend the minds of students. Students will strengthen quantitative reasoning and problem solving skills, be held accountable for their own learning, learn the year’s curriculum so that they have a solid foundation in physics, and develop habits and lab skills equivalent to those of college freshmen.

D3021/D3022/D3023

**ADVANCED PLACEMENT CHEMISTRY**

*Honors Points: 3*

Grades 11- 12

Credits: 2

This course is designed for qualified students most of whom have a strong interest in science. For some students this is their first time to be in a class where they are required to really think, where memorization and “being smart” is not enough. A strong emphasis is put on the fact that AP Chemistry is a college-level course designed to take the place of two semesters of freshman Inorganic Chemistry, and therefore is fast paced. Students will strengthen quantitative reasoning and problem solving skills, be accountable for their own learning, learn the year’s curriculum so that

they have a solid foundation in college chemistry or test out of college chemistry, and develop habits and lab skills equivalent to those of college freshman.

Students are encouraged to take the national Advanced Placement Test in May. Passing the test with a score of 3, 4 or 5 provides an opportunity to gain advanced placement and/or credit, according to the policy of the student's selected college.

***PREREQUISITE: Honors Application/Department Approval***

## **SOCIAL STUDIES DEPARTMENT**

C1011/C1012

### **WORLD HISTORY**

Grade 9

Credits: 1

This required course will introduce students to Social Studies as a discipline and set the foundation for future high school social studies classes. Key historical events, people cultures, religions and locations will be studied in light of how they helped shaped the world as students know it today.

C2011/C2012

### **U.S. HISTORY**

Grade 10

Credits: 1

Students will study the essential historical themes in the context of American history. This course will look at the exceptional people in our history, America's important place in the world and how our Constitution and other important documents have shaped our history. This course will offer a review of American history to the 1900's then offer an in-depth look at the key events in American history from Industrialization to the present.

C2021/C2022

### **U.S. HISTORY HONORS**

*Honors Points: 2*

Grade 10

Credits: 1

Students will study at a deeper and more rigorous level the essential historical themes in the context of American history. This course will look at the exceptional people in our history, America's important place in the world and how our Constitution and other important documents have shaped our history. This course will offer a review of American history to the 1900's then offer an in-depth look at the key events in American history from Industrialization to the present.

***PREREQUISITE: Honors Application/Department Approval***

C3011

**AMERICAN GOVERNMENT**

Grade 11

Credits: 0.5

Students who take American Government will expose themselves to the Principles of Government by introducing themselves as what the goals of government should be. Is government necessary? In addition, students will learn about the different forms of government and the concepts that are involved within it. Students will learn the differences of their duties and responsibilities as citizens which range from serving on a jury to participating in civic life. American Government students will study the origins of American Government by learning the Political Beginnings, the Coming of Independence, and the Critical Period including the creation of the Articles of Confederation, Creating the Constitution, and Ratifying the Constitution. Students will take an in-depth look at the United States Constitution and studying the basic principles, the formal amendment process along with understanding the importance of how powers are divided and how our national and state governments are organized. Students will study political parties, voters and voter's behavior, and the electoral process in order to become a citizen who understands what their involvement in civic government is.

C3012

**ECONOMICS**

Grade 11

Credits: 0.5

The study of economics' principles and policies will help students become better decision makers—by helping students develop a way of thinking about how to make the best choices for themselves. Students will learn that there is “no free lunch” because resources are limited and virtually everything we do has a cost, even when it seems as if we are getting something “for free.” We live in a world of relatively scarce choices and this presents 3 questions students need to consider, such as: what to produce, how to produce, and form whom to produce. Students will also study the circular flow of economic activity. Students will develop their understanding of the important role in society they are a part of by one day providing labor for income, then spending one's income in order to buy goods and services. Students will learn why and how they make the economic choices they do by the decision making they make on a daily, weekly, monthly and yearly process. Students will study different economic systems and how those systems deal with decision making on a global basis. The social and economic goals of the United States include economic freedom, economic security, and economic equity which will affect one's financial security and freedom to carry out one's economic choice. Types of business organizations are studied along with advantages and disadvantages of each and the supply and demands which apply to all people throughout the world. Economics will be one class to keep students informed in how our country and world operates with goods and services available, and for how long.

3021/C3022

**AMERICAN GOVERNMENT & ECONOMICS HONORS**

*Honors Points: 2*

Grade 11

Credits: 1

Students will learn about the different forms of government and the concepts that are involved within it. Students will take an in-depth look at the United States Constitution and studying the basic principles, the formal amendment process along with understanding the importance of how powers are divided and how our national and state governments are organized. Students will study political parties, voters and voter's behavior, and the electoral process in order to become a citizen who understands what their involvement in civic government is. The study of economics'

principles and policies will help students become better decision makers—by helping students develop a way of thinking about how to make the best choices for themselves. Students will develop their understanding of the important role in society they are a part of by one day providing labor for income, then spending one’s income in order to buy goods and services. Students will study different economic systems and how those systems deal with decision making on a global basis. Honors students will also be introduced to the AP Comparative Government format for researching current events and becoming better critical thinkers in this content area.

***PREREQUISITE: Honors Application/Department Approval***

C4021/C4022/C4023

**ADVANCED PLACEMENT COMPARATIVE GOVERNMENT**

*Honors Points: 3*

Grade 12

Credits: 2

Comparative Politics is a subfield within the academic discipline of political science as well as a method or approach to the study of politics. The study of Great Britain, China, Iran, Mexico, Nigeria, and Russia will be studied using a thematic approach. The subject matter of comparative politics is the domestic politics of countries or peoples. Within the discipline of political science, comparative politics is one of four areas of specialization. In addition to comparative politics, most political science (or government) departments in U.S. colleges and universities include courses and academic specialists in three other fields: political theory, international relations, and American politics. Comparative Politics is built on in-depth case studies of a sample of important countries around the world. The comparative approach principally analyzes similarities and differences among countries by focusing on selected institutions and processes. The analysis involves comparing similar aspects of politics in more than one country. This study will take a thematic approach and analyze broad issues, such as the causes and consequences of nationalist movements or revolutions in different countries.

Students are encouraged to take the national Advanced Placement Test in May. Passing the test with a score of 3, 4 or 5 provides an opportunity to gain advanced placement and/or credit, according to the policy of the student’s selected college.

***PREREQUISITE: Honors Application/Department Approval***

C4011

**POLITICAL SCIENCE**

Grade 12

Credits: 0.5

In this course students will apply their knowledge of American government, history and economics to several different areas: economic, foreign and domestic policies, current issues and world events. This course will be taught thematically.

***PREREQUISITE: American Government and Economics***



## WORLD LANGUAGES DEPARTMENT

*French students are eligible to travel abroad with qualifying grades and participation.*

F1013/F1014

### **FRENCH I**

Grades 9-11

Credits: 1

In this course students will be creating a foundation of language and culture that will be built upon in the coming years. Emphasis will be placed upon the acquisition of vocabulary and language structure in tandem with cultural, historical and geographical knowledge and experiences. Trying new things and keeping an open and thoughtful mind will be fundamental to the experience (and to student success) in this program. Learning opportunities will take place through games, music, film, skits, oral and written assessments, plays, and good old fashioned work.

F2013/F2014

### **FRENCH II**

Grades 9-12

Credits: 1

In this course students will be building further upon the foundation of language and culture that they have already established. Emphasis will be placed upon the acquisition of vocabulary and language structure in tandem with cultural, historical and geographical knowledge and experiences. Trying new things and keeping an open and thoughtful mind will be fundamental to the experience (and to student success) in this program. Learning opportunities will take place through games, music, film, skits, oral and written assessments, plays, and good old fashioned work.

F3013/F3014

### **ADVANCED FRENCH: FRENCH III**

*Honors Points: 2*

Grades 10-12

Credits: 1

In this course students will be further building upon the foundation of language and culture that they have already begun. Emphasis will be placed upon the acquisition and further development of vocabulary and language structure in tandem with cultural, historical and geographical knowledge and experiences. Trying new things and keeping an open and thoughtful mind will be fundamental to the experience (and to student success) in this

program. Learning opportunities will take place through games, music, film, skits, oral and written assessments, plays, and good old fashioned work.

F4013/F4014

**ADVANCED FRENCH: FRENCH IV**

*Honors Points: 2*

Grades 10-12

Credits: 1

In this course students will be using everything they have learned in the past three courses and taking it to a new level. Emphasis will be placed upon oral and written communication in tandem with cultural, historical and geographical knowledge and experiences. Trying new things and keeping an open and thoughtful mind will be fundamental to the experience (and to student success) in this program. Learning opportunities will take place through games, music, film, skits, oral and written assessments, plays, and good old fashioned work. This course will be based upon group and independent work; focus and have fun together!

F1011/F1012

**SPANISH I**

Grades 9-11

Credits: 1

This introductory language course is devoted to developing the skills of listening, speaking, reading and writing in Spanish. By working with the teacher, classmates and recorded material, the student gradually learns to recognize and adapt text material into everyday conversation. A variety of audio/visual aids and current technology are used to acquaint the student with the people and countries where the language is spoken.

F2011/F2012

**SPANISH II**

Grades 9-12

Credits: 1

This language course continues to build on foundation of basic communication skills learned in Spanish 1. This course will work on refining the development of literacy skills- listening, speaking, reading and writing in Spanish. By working with the teacher, classmates and a variety of other mediums for authentic language exposure the student will begin to be able to narrate through speech and writing as well as interpret information spoken and written while building vocabulary. A variety of teaching aids and current technology are used to acquaint the student with the people and countries where the language is spoken.

F3011/F3012

**ADVANCED SPANISH: SPANISH III**

*Honors Points: 2*

Grades 10-12

Credits: 1

The course begins with a review of essential Spanish I and II skills. Level of instruction assumes a basic knowledge of grammar concepts and vocabulary introduced in Spanish I and II. Emphasis is on communicating in Spanish through speaking, listening, reading, and writing in various verb tenses. Students also study Hispanic culture, geography, and history. Students will participate in individual, paired, and group activities as well

as complete written and oral exercises to practice new vocabulary and grammar concepts. Students will be introduced to higher level vocabulary and newspaper and magazine articles from Spain and Latin America. The primary focus will be to increase student ability to communicate in Spanish with ease and confidence.

F4011/F4012

**SPANISH IV**

*Honors Points: 2*

Grades 10-12

Credits: 1

Spanish IV is designed to be an overall review and expansion of the basic skills of Spanish. It is intended to increase accuracy and consistency in reading, listening, and writing, and to develop oral proficiency. Grammar study & practice will be more in-depth, and students will read authentic articles & literary selections. They will obtain more practice writing in the target language, including journaling & short compositions. Mini oral presentations will occur on a regular basis; for example, giving a summary of a news article from an on-line source. Hispanic culture will continue to be studied, as well as current events in Spanish-speaking countries.

## **ELECTIVE OFFERINGS BY DEPARTMENT**

N4901/N4902/N4903/N4904

**STUDENT LEADERSHIP**

Grades 9-12

Credits: 1

Leadership is a course which asks students to take an active role in the MCC community. It is designed to teach the fundamentals of leadership while students serve the school, either as a Student Council member or as a student who is looking to contribute more actively. Therefore, the course is not limited to just Student Council members; however, Student Council members must be enrolled. Because Leadership/Student Council is an elective, and the class is responsible for organizing and completing many school activities, the most important qualifications are responsible behavior, willingness to work and learn in a group setting, and the ability to sacrifice personal desires for the larger group. Student Council's primary focus is school events. This class includes time commitments outside of the normal school day.

*Prerequisite: Student Council Application and Instructor Approval*

### **English Electives**

B4900

**MYTHOLOGY**

Grades 9-12

Credits: 0.5

This course will provide an in-depth exploration of world mythology. Students will examine the origins and development of myths from various cultures and explore their similarities and differences. This course will emphasize Greek, Roman, and Norse mythology. Other mythologies such as Egyptian, Chinese, Native American, and African may be studied as well. This course will introduce students to diverse cultural backgrounds and build understanding and respect for people of different backgrounds as well as focus on the symbols, values, and application of myths to students' lives today. Furthermore, this course will develop students' analysis and comprehension of written material and foster critical thinking through

research and writing.

B4901

**CREATIVE WRITING**

Grades 9-12

Credits: 0.5

Creative writing may consist of writing commercials, children’s stories, poems, short stories, plays, and keeping a daily journal. Students enrolling in this course should be motivated to improve their creative writing abilities and be able to work in a self-directed setting. Peer evaluation, writing assessments, presentation of pieces, submissions for publication, and a final exam are a part of the assessment for this course. If a student author has a love of reading, a vivid imagination, a willingness to experiment with words, an appreciation of writing styles, and some previous writing experiences, he or she is likely to do well. In short, it is the student’s job to play the role of novice author, while the teacher assumes the role of literary critic and provides the writer with instruction in writing techniques and styles.

B4902

**CREATIVE NONFICTION**

Grades 11-12

Creative Nonfiction is a sophomore-senior level course focusing on writing for a purpose—on, that is, the writing of essays rooted in the real world but recognizing and utilizing stylistic devices to construct imaginative, informative essays from multiple genres of writing in order to develop a point of view. This course addresses real-world writing purposes and the strategies for writing essays that incorporate personal reportage, often stressing voice and occasionally touching upon humor. The course focuses on processes and methods of the art of writing essays, including foundational skills in incorporating research into writing.

## **Science Electives**

D4900

**ANATOMY AND PHYSIOLOGY A**

Grades 11-12

Credits: 0.5

Anatomy & Physiology is a course in which students explore scientific knowledge that is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures. In the science classroom, student work includes: the process of homeostasis and the essentials of human function at the level of genes, cells, tissues, and organ systems. At the conclusion of this course (A & B), students should be able to understand the structure, organization, and function of the various components of the healthy human body in order to apply this knowledge in all health-related fields. This course includes ample laboratory experiences that illustrate the application of the standards to the appropriate cells, tissues, organs, and organ systems. Students should be able to use basic laboratory equipment such as microscopes, balances, and pipettes. Anatomy A will include topics of biochemistry, cells, tissues, skeletal system, integumentary system, muscular system, nervous system, digestive system and the special and somatic senses.

D4901

**ANATOMY AND PHYSIOLOGY B**

Grades 11-12

Credits: 0.5

Anatomy & Physiology is a course in which students explore scientific knowledge that is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures. In the science classroom, student work includes: the process of homeostasis and the essentials of human function at the level of genes, cells, tissues, and organ systems. At the conclusion of this course (A & B), students should be able to understand the structure, organization, and function of the various components of the healthy human body in order to apply this knowledge in all health-related fields. This course includes ample laboratory experiences that illustrate the application of the standards to the appropriate cells, tissues, organs, and organ systems. Students should be able to use basic laboratory equipment such as microscopes, balances, and pipettes. Anatomy B will include topics of biochemistry, cells, endocrine system, cardiovascular system, immunity, respiratory system, digestive system and the reproductive system.

## **Social Studies Electives**

C4906

**AMERICAN MUSIC & POP CULTURE**

Grades 9-12

Credits: 0.5

This course is designed for students to learn about popular music and culture and how it evolved over time, in response to historical events. The course will start with the turn of the century, then move into the cultural shift of the 1920s, the birth of rhythm and blues, the 1950s, Vietnam, the birth of hip hop in 1980s and much more. The focus of the course will remain on the major historical and social issues, such as racism, Jim Crow Laws, prohibition, Vietnam war protests, etc.

C4900

**AMERICAN/STREET LAW**

Grades 9-12

Credits: 0.5

Street Law is a course that teaches practical law to high school students. The course is dedicated to empowering people through law-related education. Law-related education is a unique blend of substance and instructional strategies. Students learn substantive information about law, democracy, and human rights through strategies that promote problem solving, critical thinking, cooperative learning, improved communication and conflict resolution skills, and the ability to participate effectively in society.

C4901

**PSYCHOLOGY**

Grades 10-12

Credits 0.5

This course is a basic study to help a student think critically about psychological issues, and to help them apply what they learn to their own life and the world around them. In order to get the most out of this class, it is important that the students choose to read actively, because the more they are

involved in their own learning, the more successful the course will be, and the more enjoyable, too. Students will study areas including Psychology in the news to read about media related to issues that will be discussed in the class. Students should be prepared to engage in exercises where they get involved by entertaining little experiments or explorations to demonstrate understanding of class concepts. In addition to critical thinking activities, students will be introduced to research about how psychological scientists do what they do. Several quizzes will be given to test one's understanding, retention, and ability to apply what they have learned from a chapter study. The end of each unit focuses on ways in which students can apply what they have learned to everyday concerns, such as how to boost motivation or improve memory.

C4903

**GREEK/ROMAN HISTORY**

Grades 9-12

Credits 0.5

This course studies the historical developments of the ancient Greek and Roman Civilizations. This class will provide an examination of the social, religious, economic, literary, artistic and military aspects of their culture. This course is designed to work in tandem with the course on Mythology which is being offered with the English department.

**C4904**

**AMERICAN HISTORY THROUGH SPORTS**

Grades 10-12

Credits: 0.5

This class will look at American history through the lens of sports. We will look closely at how college and professional sports impacted the course of American history. We will look at impactful sporting events and people to give students a different perspective of American History. This class will examine how sports have become such a powerful wave of social change as well as how social changes have impacted sporting events and the people allowed to play them. Sports helped end segregation and give a platform to many who would be ignored. Professional athletes words often echo across the globe, and many have used these to impact social change. The course will look at many primary and secondary sources to investigate the topics listed above.

C4905

**CURRENT EVENTS**

Grades 10-12

Credits: 0.5

Current Events is the study of the world around us. This class will examine the major political, economic and social events that shape our world. Students will explore the daily events in our world – foreign, domestic and local. It will also focus on the major, long running topics in the world, examine their root causes and study their effects. The exploration of these events will be done through news broadcasts, articles, social media and independent research.

F5100

**INTERNATIONAL BUSINESS**

Grades 10-12

Credits: 0.5

The need for a concentration of study in international business at the high school level is becoming more important as economies of different countries and regions become interdependent. A basic knowledge of international business will better prepare students for many careers. This course is designed to make students aware of the global economy in which they live. It will enable them to investigate the need to explore career pathways on an international level and to become curious and accepting of the differences of the world around them.

## Technology Electives

T4900

**TECH LITERACY**

Grades 9-12

Credits: 0.5

Tech Lit is a course where students work on their typing skills. Other topics covered may include word processing, spreadsheets, presentations, publications. Students are challenged to use correct hand placement for typing and to improve their typing skills over the course of the nine weeks. They are also given opportunities to explore and use different programs.

T4901

**BROADCASTING**

Grades 9-12

Credits: 0.5

This is a project-based course that will increase the students' familiarity and comfort with using technology to create and collaborate. In this paperless environment, students will explore technology tools that are used to develop and share information. The first nine weeks are broadcast-based. The evolution of broadcast methods are covered and students will acquire a respect for the large leaps technology has made to broadcast. The second nine weeks focus on multimedia. Students explore ways to responsibly share information in the digital age. Topics include Google Drive, screencasting, tutorials, HTML, infographics and interactive presentations. All students will complete and present a personal technology goal.

## Computer Science

I1003/1004

**ADVANCED COMPUTER SCIENCE A/B**

Grades 9-12

Credits: 0.5

This course will introduce students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions and the ethical and social



implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. This course may be taken twice during the school year, with the content increasing each time.

I1001

**INTRODUCTION TO COMPUTER SCIENCE**

Grades 9-12

Credits: 0.5

This course is for all students, who are interested in computers or want to learn what computer science is. The course will cover the core computer science and programming concepts while using highly interactive online activities as well as in class projects.

I1002

**COMPUTING TECHNOLOGY FOR ALL**

Grades 9-12

Credits: 0.5

Understanding computing technology benefits nearly anybody today, not only through using the amazing world of the Internet, the web, computers, smartphones, the cloud and more but helping people become better purchasers and users of computing technology too. In this course we will do real Python programming, visually see how much more memory or drives impact a computer, develop and preview working HTML, CSS or Javascript and much more.

## **ADVISORY**

A0911/A0912/A1011/A1012/A1111/A1112/A1211/A1212

**ADVISORY**

Grades 9-12

Credits: 0.5

Advisory is a year-long mini-course designed to help balance academic life with future goals. With student success in mind, advisors will facilitate lessons on a variety of topics geared toward college and career readiness two times per week. Advisors will also be there to discuss student grades and academic progress, as well as any concerns students may have about their courses. By the end of the course students will be thinking about future goals and planning how to get there, developing skills and supports for academic and personal success, demonstrating motivation and a sense of purpose, and advocating for needs by regularly discussing achievement with school staff. The advisory program is mandatory for all students at Muskegon Catholic Central. Advisory is a 1 credit course that is part of the requirements for graduation. Students will be expected to participate in discussions and complete all class activities.

# ACADEMIC SUPPORT AND TUTORING

N1011/N1012

## ACADEMIC SUPPORT

Grades 9-12

Credits: 0.25

This class is designed to aid MCC high school students in areas of academic need. Students are placed in the class based on previous grades, test scores, teacher recommendation, and/or parent request. Although a class hour may contain several students, each is working on a support plan determined by his or her specific needs. Grades in the Academic Support class will be determined according to individual expectations.

***PREREQUISITE: Department Recommendation and/or Guidance Department Approval.***

N1021/N1022

## ACADEMIC SUPPORT TUTOR

Grades 11-12

Credits: 0.25

Academic Support Tutors provide one-on-one academic support to students enrolled in the Academic Support room. Tutors help students understand their academic material more clearly, problem solve with students, and provide academic encouragement to students.

Some students may be assigned to tutor for Math Lab. The student will be engaged in peer instruction with other student(s) under a teacher's supervision focused on improving mathematics and basic skills needed for successful achievement in the mathematics content area.

***PREREQUISITE: Department Recommendation and/or Guidance Department Approval.***

E4902/E4903

## MATH LAB

Grades 9-12

Credits: 0.25

This will class will serve as a support class that is math focused. The goal is to reinforce and practice math basics and fundamentals. The student will be in a one-on-one or small group led by an approved Math Lab Tutor. Students may be required to complete assignments and assessments.

***PREREQUISITE: Department Recommendation and Guidance Department Approval.***

E4903/E4904

## MATH LAB TUTOR

Grades 11-12

Credits: 0.25

The student will be engaged in peer instruction with other student(s) under a teacher's supervision focused on improving mathematics and basic skills needed for successful achievement in the mathematics content area.

***PREREQUISITE: Department Recommendation and Guidance Department Approval.***

N4900

**COLLEGE TEST PREPARATION**

Grades 11-12

Credits: 0.5

This class will help students prepare for the ACT, which all juniors are required to take as part of the Michigan Merit Exam. Preparation will be in the areas of Math, Science, Language Arts, reading, and Writing. Students will learn standardized test-taking strategies, have extensive study in vocabulary, read and summarize recommended novels, take practice tests on-line, as well as take several practice exams, correct, and score them. College admissions and some scholarships (including MME) are directly related to the ACT scores.

## **ASSISTANTS**

N2011/N2012

**OFFICE AIDE**

Grades 11-12

Credits: 0.25

Office aides assist all staff in the Main Office. Office Aides may become involved in recording data, answering phones, duplicating and collating materials, filing, typing, delivering resources, assisting in the library, acting as receptionists, and completing teacher requests sent to the office.

Space is limited to two students per block and assignment to office aide is based upon staff selection.

***PREREQUISITE: Staff Selection and Guidance Department Approval***

N2021/N2022

**ELEMENTARY CLASSROOM ASSISTANT**

Grades 11-12

Credits: 0.25

Seniors will assist elementary teachers of different grade levels. Course responsibilities consist of working one-on-one with students, facilitating small-group activities, providing assistance to the teacher and other appropriate duties as assigned. The elementary classroom placement will be assigned based on individual classroom need and high school student interest.

***PREREQUISITE:*** *Approval from Guidance Department and interview with Elementary School Principal.*

## DUAL ENROLLMENT

Dual enrollment is a process by which high school students may enroll in college courses for high school and college credit. The Postsecondary Enrollment Option Act (PA 160 of 1996) establishes the opportunity for Michigan high school students to dual enroll in college courses at Michigan postsecondary institutions when certain criteria are met. High school students need to be continually challenged in order to maintain their academic interests and such challenges must include rigorous academic pursuits. Providing a wider variety of options to students by encouraging and enabling them to dual enroll assures new and exciting academic challenges. **Any Muskegon Catholic Central High School student who intends to pursue dual enrollment must complete, sign and return the MCC Postsecondary Enrollment Options (Dual Enrollment) Contract to the Muskegon Catholic Central High School Counseling Department with his/her completed dual enrollment course request form.**

Z1030/Z1040

**BS245 PERSONAL FINANCE**

Grades 11-12

Serves as a practical guide to individual money planning. Subjects covered include budgeting, investing, planning for taxes, insurance, consumer decisions, and retirement planning.

***PREREQUISITE:*** *Accepted by Aquinas College*

Z1031/Z1041

**SY103 CULTURAL ANTHROPOLOGY**

Grades 11-12

Analysis of human cultural adaptations in various societies around the world.

***PREREQUISITE:*** *Accepted by Aquinas College*

## CAREER TECHNICAL CENTER

### CAREER TECH CENTER COURSES

Grades 11-12

Credits: 4 per year

Students are able to participate in classes through the Career Tech Center (CTC). These classes are held off campus either the CTC building, Muskegon Community College or at Nuvo School of Cosmetology. Students must provide their own transportation. Students will earn 4 credits for the year in each of the classes. Space is limited in these classes, therefore placement in the requested class cannot be guaranteed. Students selecting a CTC class will register for only 4 additional credits. Students interested in a CTC class should contact the Counseling Office during the spring registration.

The following classes are offered through the CTC:

	English	4 <sup>th</sup> Math Related	3 <sup>rd</sup> Science*	Visual Performing & Applied Arts	20 Hour Online Experience
Allied Health Technologies	X			X	X
Auto Collision/Refinishing		X		X	X
Auto Service Technology	X	X		X	X
Catering & Culinary Management	X	X		X	X
Computer Aided Design		X		X	X
Construction Trades		X		X	X
Cosmetology				X	X

Criminal Justice	X			X	X
Electrical/Computer Technologies		X	X	X	X
Environmental/Veterinary Sciences	X		X	X	X
Graphic Production Technologies	X	X		X	X
Health Science Academy	X	**	X	X	X
Internet, Network & Security Technologies	X	X		X	X
Machining/Engineering Tech		X		X	X
Welding Technologies		X		X	X

\* -- Please note that the changes to MMC laws allow ANY completed CTE program to meet the requirement for a 3<sup>rd</sup> Science credit. The classes marked above are delivering science content and the teachers are highly qualified in science.

\*\* Math credit in this course may be earned IF students successfully complete the optional Pharmacy Tech certification.

NOTE: For any college athlete bound student, the NCAA does not accept CTC classes to count as their required core classes.

**ARTICULATION AGREEMENT:** College credit at Muskegon Community College or at Baker College may be earned for the CTC classes.

See the Counselor or CTC instructor for details.