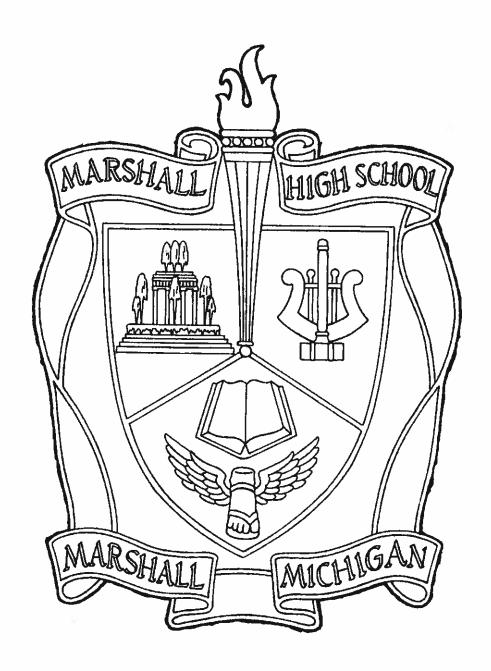
### MARSHALL HIGH SCHOOL



### COURSE OFFERINGS FOR THE 2024-2025 SCHOOL YEAR

NOTE: Every class listed may not be available every year. Courses may not materialize due to lack of sufficient enrollment and/or financial constraints.

### **INDEX**

COURSE NAME	SECTION FOUND IN
Advanced AFNR Leadership	Agri-Science and Natural Resources
Advanced Marshall Fitness	Physical Education
Advanced Placement Biology	Science
Advanced Placement Calculus AB	Mathematics
Advanced Placement Chemistry	Science
Advanced Placement Literature & Composition	Language Arts
Advanced Placement Psychology	Social Studies
Advanced Placement Spanish Language	World Language
Advanced Placement Statistics	Mathematics
Advanced Placement Studio Art	Art
Advanced Placement United States Government	Social Studies
Advanced Placement United States History	Social Studies
Advanced Placement World History	Social Studies
Advisory	Miscellaneous Courses/Programs
Algebra I	Mathematics
Algebra I A	Mathematics
Algebra I B	Mathematics
Algebra II	Mathematics
Algebra II A	Mathematics
Algebra II B	Mathematics
Algebra II Honors	Mathematics
Algebra III	Mathematics
American Government	Social Studies
Anatomy and Physiology	Science
Art and Design	Art
Art II	Art
Biology	Science
Botany	Agri-Science and Natural Resources
Calculus I	Mathematics
CACC, 21st Century Health Careers – Health Sciences	Calhoun Area Career Center
CACC, Agriscience – Natural Resources & Agriscience	Calhoun Area Career Center
CACC, Automotive Service Tech - Eng/Manuf/Indust Tech	Calhoun Area Career Center
CACC, Aviation Exploration – Eng/Manuf/Indust Tech	Calhoun Area Career Center
CACC, Collision Repair Tech - Eng/Manuf/Indust Tech	Calhoun Area Career Center
CACC, Computer Networking - Bus/Mgmt/Mktg/Tech	Calhoun Area Career Center
CACC, Computer Programming – Bus/Mgmt/Mktg/Tech	Calhoun Area Career Center
CACC, Construction Tech - Eng/Manuf/Indust Tech	Calhoun Area Career Center
CACC, Criminal Justice – Human Services	Calhoun Area Career Center
CACC, Culinary Arts/Hospitality – Bus/Mgmt/Mktg/Tech	Calhoun Area Career Center
CACC, Early Childhood Education - Human Services	Calhoun Area Career Center
CACC, Education Academy - Human Services	Calhoun Area Career Center
CACC, Emergency Medical Tech (EMT)-Basic - Health Sciences	Calhoun Area Career Center
CACC, Graphics Communications Technology - Arts/Comm	Calhoun Area Career Center
CACC, Health Careers Prep – Health Sciences	Calhoun Area Career Center
CACC, Health Occupations - Health Sciences	Calhoun Area Career Center
	Calhoun Area Career Center
CACC, Intro to Robotics & Engineering – Eng/Manuf/Industr Tech	
CACC, Law Enforcement – Human Services	Calhoun Area Career Center
	Calhoun Area Career Center Calhoun Area Career Centre

### COURSE NAME

### SECTION FOUND IN

Chemistry	Science
College and Career Readiness	Miscellaneous
Conceptual Chemistry	Science
Conceptual Physics	Science
Concert Band	Music
Concert Orchestra	Music
Creative Writing	Language Arts
Digital Yearbook	Language Arts
Dual Enrollment/On-Line Learning 21F	Miscellaneous Courses/Programs
Economics/Personal Finance	Social Studies
English 9	Language Arts
English 9 Honors	Language Arts
English 10	Language Arts
English 10 Honors	Language Arts
English 11	Language Arts
English 11 Honors	Language Arts
English 12: Technical Writing/Science Fiction	Language Arts
English 12: British Literature/College Prep	Language Arts
English 12: Exploring Diversity Through Literature	Language Arts
Exploring Spanish	World Language
Geometry	Mathematics
Geometry Honors	Mathematics
Health	Physical Education
Informal Geometry	Mathematics
Introduction to Industry	Industrial Technology
Links	Miscellaneous/Courses/Programs
Marshall Fitness	Physical Education
Marshall Singers	Music
Metal Technology I	Industrial Technology
NEXXUS	Miscellaneous Courses/Programs
Personal Finance	Mathematics
Physical Education 9	Physical Education
Physics	Science
Pre-Calculus	Mathematics
Pre-Calculus Honors	Mathematics
Psychology I	Social Studies
Psychology II	Social Studies
Redhawk Chorale	Music
Spanish I	World Language
Spanish II	World Language
Spanish III	World Language
Spanish IV	World Language
Sports Fitness	Physical Education
Studio	Art
Symphonic Band	Music
Symphony Orchestra	Music
United States History – 1865 to Present	Social Studies
Wood & Construction Technology I	Industrial Technology
Wood & Construction Technology II	Industrial Technology
Wood & Construction Technology III	Industrial Technology
World History, Pre-History to Present	Social Studies
Zoology	Agri-Science and Natural Resources

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### GRADUATION REQUIREMENTS



It is the goal of Marshall High School to provide opportunities for each individual student to experience various learning activities which will enhance the required subjects of the core curriculum. Students are required to be enrolled in and attend regularly, a minimum of seven classes (one being advisory class) for all eight semesters of their high school career. Students who fail to meet graduation requirements, as spelled out in the framework below, will be asked to complete their course work in another program.

To graduate from Marshall High School and participate in commencement exercises, each student must earn a minimum of the following credits: 21 and pass all required courses. A course taken from Marshall High School for one semester earns ½ credit and a course taken all year earns one (1) credit.

- ✓ The 9<sup>th</sup> grade physical education course is a prerequisite to any elective course in physical education. PE may be waived because of health when certified by a physician, or for religious beliefs when certified by a pastor. Such cases must be reviewed each year by the principal.
- ✓ 9<sup>th</sup> grade student athletes may choose to opt out of PE 9 if they participate and remain eligible throughout the entire season of an MHSAA sanctioned sport or other sport approved by the Superintendent. Band within the 9<sup>th</sup> grade year can count toward PE 9 credit.
- ✓ Required courses are expected to be taken at Marshall High School unless specific permission is given by the principal's office or designee. Such permission will be noted in writing in the student's records.
- ✓ Any course taken outside of the normal school day program with the intent of receiving credit must have the approval of the principal or designee. Such permission will be noted in writing in the student's records.
- ✓ All students must carry a full schedule of classes (6 + one advisory). If more credits are needed to graduate on time than can be earned in the regular school day, please see your counselor for the Marshall High School approved options. Prior approval must be obtained from the principal or designee. A record of what is approved will be kept in the student's file.
- ✓ Credit recovery courses may be used to assist in making up course deficiencies where the school feels that the study is appropriate and useful to the student concerned. Students are limited to 4 credit recovery classes or 2 credits to receive an MPS diploma.

We recommend that students use the following chart to help them with their academic planning:

9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
*English 9 or 9 Honors	*English 10 or 10 Honors	*English 11 or 11 Honors	*English 12 or AP English
*Biology	*Math	*Math	*Math
*Math	*Chemistry	*Physics	*Gov't/Econ
*Phys Ed 9 /Health	*World History	*U.S. History	Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective
TOTAL OF 6 CREDITS	TOTAL OF 6 CREDITS	TOTAL OF 6 CREDITS	TOTAL OF 6 CREDITS

<sup>\* =</sup> required classes for that grade

(.5) credit of Personal Finance must be met in the student's Junior or Senior year1 credit of World Language must be taken before graduation

The following credits are required to be taken and passed by each student per the Michigan Merit Curriculum:

### Michigan Merit Curriculum **High School Graduation Requirements**

### **MATHEMATICS - 4 Credits**

Honors and AP Substitutions Available

Algebra I

Geometry

Algebra II

One math course in final year of high school

### **ENGLISH LANGUAGE ARTS - 4 Credits**

Honors and AP Substitutions Available

English 9

English 10

English 11

English 12

### **SCIENCE - 3 Credits**

Biology

Chemistry

Physics

### **SOCIAL STUDIES - 3 Credits**

**US History** 

World History

1/2 credit in American Government

½ credit in Economics

### PHYSICAL EDUCATION & HEALTH - 1 Credit

1/2 credit PE 9

1/2 credit Health

### VISUAL, PERFORMING AND APPLIED ARTS - 1 Credit

\*See listing below

### **ONLINE LEARNING EXPERIENCE**

Course Learning or Integrated Learning Experience

### LANGUAGE OTHER THAN ENGLISH - 1 Credit

In grades 9-12; OR an equivalent learning experience in grades K-12 effective for students in the Class of 2016 and beyond.

### \*Visual Performing and Applied Arts classes

MUSIC:

Symphonic Band

Concert Band

Symphony Orchestra Concert Orchestra

Redhawk Chorale

Marshall Singers

**LANGUAGE ARTS:** 

Digital Yearbook

ART:

Studio Art II

Art and Design

AP Studio Art

**MATHEMATICS:** 

Personal Finance

**INDUSTRIAL EDUCATION** 

**TECHNOLOGY:** 

Introduction to Industry Metal Technology I

Woods I, II, III

### **AGRICULTURE:**

Botany Zoology

### **CALHOUN AREA CAREER CENTER**

### **Arts & Communications:**

\* Graphic Communications

### Business, Management, Marketing & Technology:

- \* Computer Networking
- \* Computer Programming
- \* Culinary Arts/Hospitality

### Natural Resources & Agriscience

\* Agriscience

### **Human Services:**

- \* Criminal Justice
- \* Early Childhood Education
- \* Education Academy
- \* Law Enforcement

### Engineering/Manuf/Industrial Tech:

- \* Automotive Service Technology
- \* Aviation Exploration
- \* Collision Repair Technology
- \* Construction Technology
- \* Intro to Robotics & Engineering
- \* Power Equipment Technology
- \* Welding Technology

### **Health Sciences:**

- \* Emergency Medical Technician (EMT) Basic
- \* Health Careers Prep
- \* Health Occupations
- \* 21st Century Health Careers

STUDENTS ARE RESPONSIBLE FOR ENSURING THAT THEIR RECORDS ARE CORRECT AND UP-TO-DATE, AND THAT REQUIRED COURSES ARE TAKEN AND SATISFACTORILY COMPLETED. COMPLETION OF GRADUATION REQUIREMENTS IS THE RESPONSIBILITY OF THE STUDENT. ANY STUDENT PLANNING TO GRADUATE WITH HONORS MUST FOLLOW THE GUIDELINES AS SPELLED OUT IN THE STUDENT HANDBOOK. SEE YOUR SCHOOL COUNSELOR WITH ANY QUESTIONS.

### **PREREQUISITES**

A prerequisite is a requirement which must be met before enrollment in an advanced course is allowed. Prerequisites have been established by departments for some courses. Not only do these requirements preserve the integrity of certain courses, but they also serve as an aid to students in the process of course selection. These requirements are usually designed to discourage students from enrolling in courses where frustration and/or the opportunity for success may be limited. If a course name is listed as a prerequisite, then credit must be earned for the listed course; and this kind of prerequisite may not be waived.

Other kinds of prerequisites may, however, be waived by:

Principal's approval

Successfully passing a departmental prerequisite waiver examination

Providing a parent-completed waiver form which allows the student to enroll

<sup>\*</sup> Career Center courses are only available to 11th and 12th grade students.

<sup>\*</sup>A blank 4-year course planner is enclosed to assist with mapping out your courses at Marshall High School.



# 4 Year Course Planner 6 classes taken per semester (3 credits)

Date:	
Name:	Current Grade Level:

	GRADE 9	知識を持ち	GRADE 9	THE STREET	GRADE 10	THE PERSON NAMED IN	GRADE 10	の変数の対象
	First Semester		Second Semester		First Semester		Second Semester	
	Course Title	Credits	Course Title	Credits	Course Title	Credits	Course Title	Credits
English								
Mathematics								
Science								
Social Studies								
Fine/Performing Arts								
PE/ Health								
Elective								
Elective								
	Total Credits earned =		Total Credits eamed=		Total Credits earned=		Total Credits=	
Cumulative Credits	<b>^</b>		+		+ ***		+	

	GRADE 11		GRADE 11	温暖鐵	GRADE 12		GRADE 12	な可能がある
	First Semester		Second Semester		First Semester	語の記述	Second Semester	
	Course Title	Credits	Course Title	Credits	Course Title	Credits	Course Title	Credits
English								
Mathematics								
Science								
Social Studies								
Fine/Performing Arts								
Elective								
Elective								
Efective								
	Total Credits earned =		Total Credits=		Total Credits=		Total Credits=	11
Cumulative Credits→	Cumulative Credits→ 9th & 10th grade total →		11 <sup>th</sup> grade total → +	83.8%	12 <sup>th</sup> grade total → +	25 miles	= (*21 credits needed to graduate)	



ART

COURSE TITLE:

**STUDIO - 161** 

COURSE CREDIT:

1 Credit

COURSE PREREQUISITE:

None

COURSE DESCRIPTION: This course exposes beginning art students to the elements of line, shape, color, texture, and form. The students gain some experience and develop skills in drawing, painting, printing, and ceramics. They will become acquainted with major art history movements and art work.

**COURSE TITLE:** 

ART II - 262

COURSE CREDIT:

1 Credit

COURSE PREREQUISITE:

A passing grade in Studio

COURSE DESCRIPTION: This course combines painting, drawing, design and three-dimensional exploration in one class. Emphasis for first semester is on realism and drawing/painting. Expression and color theory are also explored. Second semester moves on to 3-Dimensional works and creative design.

COURSE TITLE:

ART and DESIGN - 362

COURSE CREDIT:

1 Credit

COURSE PREREQUISITE: A passing grade in Studio

COURSE DESCRIPTION: This course combines the facets of design using a large variety of materials and ideas. The class will include an investigation of sculpture, ceramics, print-making, fiber art, and jewelry. Emphasis is placed on the use of materials, technique, and creativity of design. Many new kinds of materials may be explored. Students will be exposed to art history knowledge.

COURSE TITLE:

AP STUDIO ART - 447

COURSE CREDIT:

1 Credit

COURSE PREREQUISITE: Completion of Art II or Art and Design with a "B" grade or higher and permission of instructor COURSE DESCRIPTION: The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios – 2-D Design, 3-D Design, and Drawing – corresponding to common college foundation courses. This course can be repeated for credit in a different portfolio category. This course addresses three major concerns that are constants in the teaching of art: (1) the student's ability to recognize quality in her or his work; (2) the student's concentration on a sustained investigation of a particular visual interest or problem; and (3) a range of approaches to the formal, technical, and expressive means of the artist. This course requires summer work prior to the start of the school year.



### INDUSTRIAL EDUCATION TECHNOLOGY

COURSE TITLE: INTRODUCTION TO INDUSTRY - 287

COURSE CREDIT: 1 Credit COURSE PREREQUISITE: None

COURSE DESCRIPTION: Introduction to Industry provides the student an opportunity to explore and experience various areas within the industrial technology area. This survey course is specifically designed to assist students in identifying their interests, and also to provide challenging, fun, and varied activities. Topics of study may include: woodworking systems; metal fabrication, building construction, CAD drafting, multi-view drawing, pictorial drawing and dimension, transportation systems, vehicle design, energy/power systems, general power, mass production/manufacturing systems as related to industry, and large volume production of a product. A major focus will be placed on working as a team.

COURSE TITLE: METAL TECHNOLOGY I - 815

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Intro to Industry or Instructor's Approval

COURSE DESCRIPTION: Metals Technology is a study of the tools, materials, and processes common in the metalworking industry. The instructional program includes a study of areas selected from Bench Metal, Sheet Metal, and Basic Machining. Sample industrial processes studied include cutting, drilling, tempering, welding, fastening, bending, mill work, lathe work, and finishing. Student design and fabricate projects that are representative of this industry. Use of CAD will occur throughout all projects and processes during the duration of the course.

COURSE TITLE: WOOD & CONSTRUCTION TECHNOLOGY I - 180

COURSE CREDIT: 1 Credit COURSE PREREQUISITE: None

COURSE DESCRIPTION: Woodworking is a study of the tools, materials, and processes common to the construction of furniture and cabinet making industries. Processes studied include layout and measuring, cutting, sanding, drilling and boring, shaping, jointing, fastening, and finishing. An emphasis on safety is incorporated into all activities. Assorted projects are assigned throughout the school year and will be completed using various construction techniques. Students may be able to make a project of their own if time allows.

COURSE TITLE: WOOD & CONSTRUCTION TECHNOLOGY II - 281

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Wood Technology I

COURSE DESCRIPTION: This is a course designed to expand the skill and knowledge acquired in Wood Technology I, and is for the person who has an interest and ability in woodworking either as a career or life-time activity. There will be a major required project during the first semester which will incorporate basic cabinet making techniques. The student will then complete a major project of his/her own design.

COURSE TITLE: WOOD & CONSTRUCTION TECHNOLOGY III - 381

COURSE CREDIT: 1 Credit

COURSE PREREOUISITE: Instructor Approval Needed

COURSE DESCRIPTION: This course is for the student who wants to devote an entire school year to a complex, high quality woodworking project(s). (ex. Grandfather Clock, or other piece of furniture). Additional production areas may include carpentry/construction, wood processing, manufacturing, and laminating and bending processes.

### LANGUAGE ARTS

### Michigan Merit Curriculum Required Courses

9 <sup>th</sup> grade	English 9 OR Honors English 9
10 <sup>th</sup> grade	English 10 OR Honors English 10
11 <sup>th</sup> grade	English 11 OR Honors English 11
12 <sup>th</sup> grade	English 12: Technical/Science Fiction OR English 12: British Literature/College Prep OR English 12: Exploring Diversity Through Literature OR AP English Literature & Composition

COURSE TITLE: ENGLISH 9 - 104

COURSE CREDIT: 1 Credit COURSE PREREQUISITE: None

COURSE DESCRIPTION: English 9 comprehensively reviews grammar, usage, and vocabulary building. The composition component guides students in crafting well-structured paragraphs, essays, and research pieces. Students engage with selected short stories, novels, and dramas in the literary exploration section, honing critical analysis skills through discussion and written expression. This course provides a holistic approach to language arts, fostering proficiency in written and analytical domains.

COURSE TITLE: ENGLISH 9 HONORS - 105

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Recommendation by 8th Grade English teacher

COURSE DESCRIPTION: English 9 Honors is tailored for advanced English students with solid time management and organizational skills. This course thoroughly surveys grammar, usage, and vocabulary, particularly emphasizing honing writing proficiency. Literary analysis is conducted through oral discussions and written compositions, delving into more profound explorations than the standard English 9 curriculum. The program also focuses on developing research skills and critical analysis. English 9 Honors aims to challenge and further enhance students' linguistic and analytical capabilities, setting the stage for academic excellence. Successful completion of assigned summer work before the start of the school year is a prerequisite for enrollment.

COURSE TITLE: ENGLISH 10 - 202

COURSE CREDIT: 1 Credit COURSE PREREQUISITE: English 9

COURSE DESCRIPTION: Oral communication skills and vocabulary enrichment are emphasized. Students will receive a review of grammar, mechanics, usage, composition, and literature. Continuing development in the writing of paragraphs and longer compositions provides a basis for critical thinking skills. An introduction to research skills is included. World literature is the foundation of reading for the year.

COURSE TITLE: ENGLISH 10 HONORS - 203

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: English 9 Regular with an "A" average, teacher recommendation, AND two writing samples

approved by English 10 Honors teacher

English 9 Honors with a "B" average and teacher recommendation

COURSE DESCRIPTION: English 10 Honors is designed for students who have demonstrated a degree of excellence in English. Course content includes the study of grammar as it relates to writing style: mechanics; usage; writing, including the expository and personal essay; vocabulary; World literature; and public speaking. Additionally, English 10 Honors includes the production of a research paper. Summer work prior to the start of the school year is required.

COURSE TITLE: ENGLISH 11 - 303

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: English 9 and English 10

COURSE DESCRIPTION: English 11 students study grammar, mechanics, usage, and extensive composition, as well as American authors and American literature. Students write paragraphs, compositions, and essays. A separate and complete unit on the research paper is included in this course.

COURSE TITLE: ENGLISH 11 HONORS - 304

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: English 10 Regular with an "A" average

English 10 Honors with a "B" average and teacher recommendation

COURSE DESCRIPTION: English 11 Honors provides a forum for the advanced work of serious students. In addition to a broad review of grammar and vocabulary, the class work involves composition and critical thinking skills as applied to a survey of American thought and culture represented in stories, plays, poetry, novels, and essays. A research writing project that requires an analysis of an American subject is required.

Summer work prior to the start of the school year is required.

COURSE TITLE: ENGLISH 12: TECHNICAL WRITING/SCIENCE FICTION - 486

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: English 9, English 10, and English 11

COURSE DESCRIPTION: This course is intended to prepare students for entry into two-year post-secondary programs, the workforce, or the military by developing and enhancing real-world writing skills and by studying works in the genres of science fiction and fantasy. Literature studied may include the works of authors such as Tolkien, Bradbury, Asimov. The study of these genres serves as a backdrop for the improvement of literacy skills and includes technical writing in the following areas: etiquette, resume writing, persuasive writing, comparison and process writing, as well as public speaking.

COURSE TITLE: ENGLISH 12: BRITISH LITERATURE/COLLEGE PREP - 402

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: English 9, English 10, and English 11

COURSE DESCRIPTION: English 12 provides all students intending to attend a traditional four-year collegiate university a thorough review of grammar as it relates to writing style, punctuation review, vocabulary study, note-taking based on reading and/or lecture, and essay/objective testing. English 12 offers a selection of British literature and other reading materials which serve as a back-drop for the improvement of reading skills and the continued study of writing: the personal essay, analytical essay, and research paper.

COURSE TITLE: ENGLISH 12: EXPLORING DIVERSITY THROUGH LITERATURE - 091

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: English 9, English 10, open to Juniors as an elective

COURSE DESCRIPTION: Students will explore diversity and discover the joy and genius in marginalized people through reading of modern texts, both fiction and nonfiction and visual literature and critical writing. Fictional pieces will center around various diverse groups including African American, Latinx, LGBTQ, amongst other diverse groups. Non-fiction pieces will include essays from NPR's This I Believe, Rethinking Schools magazine articles, among other relevant readings. Viewing and Listening standards will be achieved through documentaries and film. Writing will include post-secondary necessities such as scholarship writing, college application essays, and resume writing (as needed). Journal writing will be a part of the course, offering students a way to grapple with and respond in various forms to topics discussed in class. Literary responses will range from both formal and informal. Research writing will be included. This course is open to underclassmen with department approval, but preference will be given to Seniors.

COURSE TITLE: ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION - 444

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: English 11 with an" A" average, teacher recommendation, AND two writing samples approved

by AP Literature and Composition teacher

English 11 Honors with a "B" average and teacher recommendation

COURSE DESCRIPTION: AP Literature and Composition involves reading and in-depth analysis of a wide expanse of literature. Because this course is regarded as a college freshman English class, the level of material reflects a more rigorous schedule. Texts include titles such as The Awakening, Heart of Darkness, Brave New World, Waiting for Godot, Death of a Salesman, The Iliad, Life of Pi, Antigone, and Oedipus Rex as well as works by other renowned authors. Frequent writing assignments (both in and out of class) and challenging comprehension tests comprise a majority of the student's grade. The year culminates with students taking the AP test, which can earn college credit for students who score well. The course also requires students to select, read, and analyze two (2) approved novels. In addition to literature, the course includes: study of vocabulary, advanced study of grammar, development of expository writing techniques, production of an annotated bibliography, practice in writing interpretations, and development of oral communication skills. Finally, AP English continues to emphasize in-class writing and objective and essay tests. Summer work prior to the start of the school year is required.

### **Enalish Electives**

COURSE TITLE: DIGITAL YEARBOOK - 204

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Instructor Approval

COURSE DESCRIPTION: In this course students will gain skills in one or more of the following areas: online page design, advanced publishing techniques and software, copy writing, editing, digital photography, image manipulation, and journalistic writing techniques while producing a creative, innovative yearbook which records school memories and events. Participants gain useful, real world skills in time management, marketing, teamwork, and design principles. Yearbook is a semester and/or year long elective class and may be taken more than once. Admission to the class may require recommendation by another teacher.

COURSE TITLE: CREATIVE WRITING - 948

COURSE CREDIT: ½ Credit

COURSE PREREQUISITE: 11th = 12th grades

COURSE DESCRIPTION: Creative Writing is designed to enhance the student's writing abilities, particularly in the area of fiction. Areas of study include short stories, poetry, plays, and scripts. Course work includes producing written projects in each area of study, review of grammar as it pertains to style and editing, and reading selected works from respected authors. Students will be required to complete a final project in a genre of their choosing, such as a collection of original poetry, a finished novel (novella) or other work agreed upon by the student and teacher.



### MATHEMATICS

\*\* IN ADDITION TO THE PREREQUISITES LISTED FOR EACH COURSE, STUDENTS MUST OBTAIN MATH TEACHER RECOMMENDATION INITIALS ON THE COURSE SELECTION SHEETS.

Michigan Merit Curriculum Required Courses

9 <sup>th</sup> grade	Algebra I *other by teacher recommendation	
10 <sup>th</sup> grade	Informal Geometry OR Geometry OR Honors Geometry	
11 <sup>th</sup> grade	Algebra II OR Algebra II Honors OR Algebra IIA (2-year sequence)	
12 <sup>th</sup> grade	Math Elective of choice <b>OR</b> Algebra IIB (2-year sequence) <b>OR</b> CACC Technical Course with a Math Component	

A graphing calculator is necessary for all math classes Algebra II and above. The recommended graphing calculator is the TI-84 Plus.

COURSE TITLE: ALGEBRA IA - 154

COURSE CREDIT: 1 Credit GRADE LEVEL: 9<sup>th</sup> grade

COURSE PREREQUISITE: Teacher recommendation

COURSE DESCRIPTION: Algebra IA is a course designed to take the typical Algebra I curriculum and split it over two years for students who need time to enhance not only their basic mathematical skills, but also their learning of algebraic concepts. If students take Algebra IA, they then will need to plan to follow it with Algebra IB. In doing so, they will have completed the entire Algebra I curriculum over a two year period and would be able to receive two math credits. Topics for this course will include, but are not limited to exponents and powers, order of operations, equations and inequalities, problem solving, introduction to functions, absolute value, the distributive property, solving, graphing and writing linear equations.

COURSE TITLE: ALGEBRA IB - 155

COURSE CREDIT: 1 Credit GRADE LEVEL: 9<sup>th</sup> - 10<sup>th</sup>

COURSE PREREQUISITE: Successful completion of Algebra IA

COURSE DESCRIPTION: Algebra IB is a course designed to follow Algebra IA. If students have taken Algebra IA, they need to follow it with Algebra IB. In doing so, they will have completed the entire Algebra I curriculum over a two year period and would be able to receive two math credits. Topics for this course will include, but are not limited to solving and graphing linear inequalities, systems of linear equations and inequalities, exponents and exponential functions, quadratic equations and functions, polynomials and factoring, rational expressions and equations.

COURSE TITLE: ALGEBRA I - 123

COURSE CREDIT: 1 Credit GRADE LEVEL: 9<sup>th</sup> grade

COURSE DESCRIPTION: The principles of algebra are studied and practiced at a steady rate. Topics include algebraic expressions, equations and inequalities, graphing relations, solving linear systems, exponents, polynomials, and word problems using equations, and additional topics prescribed by either the Michigan Merit Curriculum Course Requirements or Common Core State Standards. Students need to have good basic math skills, be willing to take notes daily in class, show their work in an organized manner, be prepared for daily homework assignments, and study for assessments in order to be successful in the class.

COURSE TITLE: INFORMAL GEOMETRY - 222

COURSE CREDIT: 1 Credit GRADE LEVEL: 10<sup>th</sup> grade

COURSE PREREQUISITE: Algebra I and Teacher recommendation

COURSE DESCRIPTION: Informal Geometry is a less rigorous high school geometry course. The course is designed to meet the needs of students who require more time to master Algebra I concepts. Major emphasis is placed on geometry terminology, geometry concepts, applications, algebra skills and applications, and additional topics prescribed by either the Michigan Merit Curriculum Course Requirements or Common Core State Standards.

COURSE TITLE: GEOMETRY - 225

COURSE CREDIT: 1 Credit
GRADE LEVEL: 9<sup>th</sup> – 10<sup>th</sup> grade

COURSE PREREQUISITE: "B-" Grade or better in Algebra I and Teacher recommendation

COURSE DESCRIPTION: This course emphasizes the importance of logical thinking in mathematics through the use of geometric definitions, theorems, and proofs. Geometric terms are also combined with algebra skills in the study of lines, angles, triangles, other polygons, polyhedra, and additional topics prescribed by either the Michigan Merit Curriculum Course Requirements or Common Core State Standards.

COURSE TITLE: GEOMETRY HONORS - 226

COURSE CREDIT: 1 Credit GRADE LEVEL: 9<sup>th</sup> grade

COURSE PREREQUISITE: "A-" Grade or better in Algebra I and Teacher recommendation

COURSE DESCRIPTION: All Geometry topics are studied at an accelerated pace and in greater depth. Honors courses are designed for those learners who are independent thinkers and who have a clear grasp of mathematical concepts and their applications.

COURSE TITLE: ALGEBRA IIA - 116

COURSE CREDIT: 1 Credit GRADE LEVEL: 11th grade

COURSE PREREQUISITE: Successful completion of Algebra I and Informal Geometry or Geometry and Teacher

recommendation

COURSE DESCRIPTION: Algebra IIA is a course designed to take the typical Algebra II curriculum and split it over a two-year period for students who need time to enhance not only their basic mathematics skills, but to learn algebraic concepts. If students take Algebra IIA, they will need to follow it with Algebra IIB the next year. In doing so, they will have completed the entire Algebra II curriculum and would be able to receive two math credits. Principles of algebra are reviewed and expanded. Topics of study include equations and inequalities, linear relations and systems, quadratic equations, exponential functions, and operations with polynomials, complex numbers, and additional topics prescribed by either the Michigan Merit Curriculum Course Requirements or Common Core State Standards.

COURSE TITLE: ALGEBRA IIB - 124

COURSE CREDIT: 1 Credit GRADE LEVEL: 12<sup>th</sup> grade

COURSE PREREQUISITE: Successful completion of Algebra IIA

COURSE DESCRIPTION: If students have taken Algebra IIA, they need to follow it with Algebra IIB. In doing so, they will have completed the entire Algebra II curriculum over a two-year period and would be able to receive two math credits. Principles of algebra are reviewed and expanded. Topics of study include equations and inequalities, linear relations and systems, quadratic equations, exponential functions, and operations with polynomials, rational expressions, complex numbers, introductory trigonometry, sequences and series, conic sections, and additional topics prescribed by either the Michigan Merit Curriculum Course Requirements or Common Core State Standards.

COURSE TITLE: ALGEBRA II - 323

COURSE CREDIT: 1 Credit

GRADE LEVEL: 10th or 11th grade

COURSE PREREQUISITE: "B-" Grade or better in Geometry and Algebra 1 and Teacher recommendation

COURSE DESCRIPTION: Principles of algebra are reviewed and expanded. Topics of study include equations and inequalities, linear relations and systems, quadratic equations, exponential functions, logarithmic and natural logarithmic functions, and operations with polynomials, rational expressions, complex numbers, introductory trigonometry, sequences and series, conic sections, and additional topics prescribed by either the Michigan Merit Curriculum Course Requirements or Common Core State Standards.

COURSE TITLE: ALGEBRA II HONORS - 324

COURSE CREDIT: 1 Credit **GRADE LEVEL:** 

 $10^{\text{th}}$  grade "A-" Grade or better in Geometry and Teacher recommendation **COURSE PREREQUISITE:** 

"B" Grade or better in Geometry Honors and Teacher recommendation

COURSE DESCRIPTION: All of the Algebra II topics are studied at an accelerated pace and in greater depth. Further treatment of trigonometry topics and additional discrete math topics may also be covered. Honors courses are designed for those learners who are independent thinkers and who have a clear grasp of mathematical concepts and their applications.

### Math Electives

**COURSE TITLE:** ALGEBRA III - 325

COURSE CREDIT: 1 Credit

**GRADE LEVEL:** 11th - 12th grade

COURSE PREREOUISITE: Algebra II and Teacher recommendation

COURSE DESCRIPTION: This course is designed for students who have completed Algebra II but who wish to continue to enhance their skills in algebra rather than go on to Precalculus. Topics of study include linear equations, systems of equations, quadratic functions and other families, statistics, probability, data analysis, basic trigonometry, parametric equations, and discrete math. The graphing calculator is used extensively throughout the course. This class is not for students who have earned credit in Pre-Calculus. A TI-84 PLUS graphing calculator is recommended for this course.

**COURSE TITLE:** PRECALCULUS - 422

COURSE CREDIT: 1 Credit

11th - 12th grade GRADE LEVEL:

COURSE PREREOUISITE: "C+" Grade or better in Algebra II and Teacher recommendation

COURSE DESCRIPTION: Pre-Calculus includes a full semester of angle functions and trigonometry. This course includes the foundation for college-level mathematics and calculus. Other topics studied include graphing, intervals, and function analysis for rational, exponential, trigonometric and logarithmic functions. Success depends upon the application of all the concepts and skills taught in Algebra I & II and Geometry. A TI-84 PLUS graphing calculator is recommended for this course.

COURSE TITLE: PRECALCULUS HONORS - 423

COURSE CREDIT: 1 Credit GRADE LEVEL: 11th - 12th grade

**COURSE PREREQUISITE:** "A-" Grade or better in Algebra II; "B" Grade or better in Algebra II Honors and Teacher

recommendation

COURSE DESCRIPTION: All of the Pre-Calculus topics are studied at an accelerated rate and in greater depth. Success depends upon the application of all the concepts and skills taught in Algebra I & II and Geometry. A TI-84 PLUS graphing calculator is recommended for this course. Honors courses are designed for those learners who are independent thinkers and who have a clear grasp of mathematical concepts and their applications.

COURSE TITLE: CALCULUS I - 425

COURSE CREDIT: 1 Credit **GRADE LEVEL:** 12th grade

**COURSE PREREQUISITE:** "C" Grade or better in Pre-Calculus and Teacher recommendation

Many of the concepts from Advanced Placement Calculus are included in this course, but are COURSE DESCRIPTION: presented at a slower pace. This course is designed for students who are not planning to take the AP Calculus Exam, but wish some experience with college level mathematics and calculus before college. Students should have an excellent background in algebra, geometry, and pre-calculus and be prepared for the rigor of the course. Daily attendance is vital. Topics covered include limits, rules for deriving and integrating a variety of functions, and applications of derivatives and integrals. A TI-84 PLUS graphing calculator is recommended for this course.

COURSE TITLE: ADVANCED PLACEMENT CALCULUS AB - 424

COURSE CREDIT: 1 Credit
GRADE LEVEL: 11th - 12th grade

COURSE PREREQUISITE: "A-" Grade or better in Pre-Calculus or "B" or better in Pre-Calculus Honors and Teacher

recommendation

COURSE DESCRIPTION: This course is offered for those students who have completed Pre-Calculus and wish to study Calculus at the college level. This course is designed to prepare students for the College Board Advanced Placement Calculus AB examination. This examination is voluntary, but successful scores can lead to advanced placement in college courses and/or college credit. Students should have an excellent background in algebra, geometry, and pre-calculus and be prepared for the fast pace of the course. Daily attendance is vital. Topics include limits, rules for deriving and integrating a variety of functions, applications of derivatives and integrals, and additional topics prescribed by the College Board. A TI-84 PLUS graphing calculator is recommended for this course. Summer work prior to the start of the school year is required.

COURSE TITLE: ADVANCED PLACEMENT STATISTICS - 448

COURSE CREDIT: 1 Credit
GRADE LEVEL: 11<sup>th</sup> - 12<sup>th</sup> grade

COURSE PREREQUISITE: Algebra II and Teacher recommendation

COURSE DESCRIPTION: Students should have an excellent background in Algebra I and II, be able to apply these concepts and be prepared for the fast pace of the course. Students should be prepared for the rigors of a college level course. Daily attendance is vital. Course content is the same as a one-semester introductory college statistics course. The purpose of the course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data as well as to prepare students for the College Board Advanced Placement Statistics examination. The exam is voluntary, but successful scores can lead to advanced placement in college courses and/or college credit. An introductory statistics course is typically required for majors in social science, health sciences, sciences, engineering, mathematics, and business. A TI-84 PLUS graphing calculator is recommended for this course.

Summer work prior to the start of the school year is required.

COURSE TITLE: PERSONAL FINANCE - 151

COURSE CREDIT ½ Credit COURSE PREREQUISITE: 11th - 12th grade

COURSE DESCRIPTION: Completion of this course within your senior year will satisfy ½ credit of the new fourth year math credit that is now required for graduation as part of the Michigan Merit Curriculum. This course focuses on concepts of math, numbers and math logic as it applies to finance.



### MUSIC

COURSE TITLE: CONCERT BAND - 166

COURSE CREDIT: 1 Credit – Full Year

COURSE PREREQUISITE: Instructor's recommendation / Audition

COURSE DESCRIPTION: The Concert Band provides a quality musical experience while performing excellent music. Emphasis is placed on the development of individual performance through fundamental development. Membership is determined by an audition in May. Attendance at all sectionals, concerts, and programs is required. Concert Band combines with Symphonic Band to form the marching band from August through the end of the football season. Band members are expected to attend band camp, which is held the first full week in August. Band within the 9th grade year can count toward PE 9 credit.

COURSE TITLE: SYMPHONIC BAND - 826

COURSE CREDIT: 1 Credit – Full Year

COURSE PREREQUISITE: Instructor's recommendation / Audition

COURSE DESCRIPTION: Symphonic Band is the top performing ensemble in the band program. Membership is determined by auditions in March of the previous year. Maintenance of performance standards on one's instrument and attendance at all rehearsals, programs, and sectionals are required. Performance literature is selected in order to provide a variety of exposure to the best of wind and percussion music. Learning emphasis includes interpretation of musical styles, conducted performance, reading skills, and the refinement of musical fundamentals. Symphonic Band performance includes local concerts, district and state festivals, and tours. The Symphonic Band combines with the Concert Band to form the Marching Band from August through the end of the football season. Band members are expected to attend band camp, which is held the first full week in August. Band within the 9th grade year can count toward PE 9 credit.

COURSE TITLE: CONCERT ORCHESTRA - 167

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Instructor's recommendation / Previous Orchestral experience

COURSE DESCRIPTION: The Concert Orchestra is a performing ensemble that focuses on excellent standard literature for both string and full orchestra, covering a wide variety of styles and time periods. The orchestra members develop their technical skills through the literature that is selected for performances. The orchestra performs four formal concerts each year. The ensemble is designed to provide a rich musical experience for students, specifically geared towards increasing the technical and expressive capabilities of the students involved.

COURSE TITLE: SYMPHONY ORCHESTRA - 476

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Instructor's recommendation / Previous Orchestral experience

COURSE DESCRIPTION: The Symphony Orchestra is the top performing ensemble in the orchestra program. Membership is determined by an audition in April. It is a performing ensemble that focuses on excellent standard literature for both string and full orchestra, covering a wide variety of styles and time periods. The orchestra members develop their technical skills through the literature that is selected for performances. The ensemble moves at a fast pace and performs four formal concerts per year in addition to community performances (Home Tour, etc). The ensemble is designed to provide a space for the advanced orchestral student to learn and grow as a musician within a performing ensemble environment.

COURSE TITLE: MARSHALL SINGERS - 368

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Instructor's recommendation / Audition

COURSE DESCRIPTION: Marshall Singers is a performing group for those who wish to be part of a choir that places emphasis on SATB music, and advanced music. The group appears before varied audiences during the course of the year with an average of 15 concerts per year. This ensemble will be auditioned in February, and this group will compete in various competitions and festivals. Students in this ensemble must be hard-working, have an ability to work for perfection, and have time available for the numerous activities of the group. Marshall Singers members are expected to attend choir camp, which is held the third weekend in August.

COURSE TITLE: REDHAWK CHORALE - 165

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: A desire to sing

COURSE DESCRIPTION: Redhawk Choir is a class designed for those who simply like to sing but do not want to be involved in as many performances as the other groups. Basic concepts of singing are taught such as breathing, sight-singing, tone and projection. No audition is necessary for this class. This choir is for all grades. This group will have an average of 5 concerts per year.

### PHYSICAL EDUCATION



COURSE TITLE:

ADVANCED MARSHALL FITNESS - 168 (6th hour/team taught with S&C coach)

COURSE CREDIT:

1 Credit

COURSE PREREQUISITE:

Physical Education 9 / Teacher Recommendation

COURSE DESCRIPTION:

This course is designed for the mature, independent, driven student athlete that competes at the junior varsity or varsity levels. The emphasis of this class is Speed / Conditioning / Strength. Speed and agility training, weight training, aquatic and cardiovascular activities will be emphasized. The goal of the course is to provide instruction that will

develop and compliment a competitive, productive, and healthy lifestyle.

COURSE TITLE:

HEALTH - 194

COURSE CREDIT:

1/2 Credit

REQUIREMENT:

A 9th grade course requirement

COURSE DESCRIPTION:

Instruction is given on the importance of physical, mental, emotional, social, and spiritual well

being. Related topics include: understanding yourself, drugs and their effect, nutrition and fitness, human sexuality, and

CPR/AED.

COURSE TITLE:

PHYSICAL EDUCATION 9 - 191

COURSE CREDIT:

1/2 Credit

REQUIREMENT:

9th grade

COURSE DESCRIPTION: The emphasis of this course is to establish the philosophy of the Physical Education Department: it is important for every individual to be active. Being an active individual not only helps one's physical well being but also is an important factor in each person's intellectual development. Components of Effort, Attitude, Participation & Positive Peer Relationships are emphasized. Various team and individual activities are utilized to steer us toward our destination.

COURSE TITLE:

SPORTS FITNESS - 290

COURSE CREDIT:

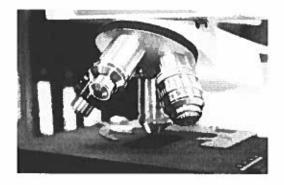
1 Credit

COURSE PREREQUISITE:

Physical Education 9

COURSE DESCRIPTION: This course is designed for the student who enjoys being active. Included in the class will be weight training, speed, agility training, individual and team-oriented sports. The goal of this course is to provide instruction that will lead to a productive and healthy lifestyle.





COURSE TITLE: BIOLOGY - 246

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Course is required for all 9th grade students

COURSE DESCRIPTION: This course is designed to meet the Michigan Science Standards for Biology including the NGSS cross cutting concepts and science and engineering practices. Biology is the science of life and students will explore the following units--Living Systems, Chemistry of Living Systems, Matter and Energy in Living Systems, Ecosystems. Cell

Stability and Change, DNA Structure and Function, Genetics, and how Living Systems Change over time.

COURSE TITLE: CHEMISTRY - 243

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Course may be taken after successful completion of Biology

COURSE DESCRIPTION: This course is designed to meet the Michigan Science Standards for Chemistry including the NGSS cross cutting concepts and science and engineering practices. Content covered includes Classification of Matter, Atomic Structure/Theory, Nuclear Chemistry, the Periodic Table and Trends, Ionic and Covalent Bonding, Chemical Reactions, Quantifying Substances--Moles and Stoichiometry. Placement in this course is determined by success in mathematics courses and teacher recommendation.

COURSE TITLE: CONCEPTUAL CHEMISTRY - 499

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Course may be taken after successful completion of Biology

COURSE DESCRIPTION: This course is designed to meet the Michigan Science Standards for Chemistry including the NGSS cross cutting concepts and science and engineering practices. The main difference between Chemistry and Conceptual Chemistry will be the intensity of math concepts covered. Conceptual Chemistry will focus more on the Chemistry concepts with less emphasis on mathematical concepts. Content covered includes Classification of Matter, Atomic Structure/Theory, Nuclear Chemistry, Light and Energy, the Periodic Table and Trends, Ionic and Covalent Bonding, Chemical Reactions, Quantifying Substances--Moles. This class is intended for students in Algebra I, Informal Geometry or any resource room math class. Placement in this course is determined by success in mathematics courses and teacher recommendation.

COURSE TITLE: PHYSICS - 343

COURSE CREDIT: 1 Credi

COURSE PREREQUISITE: Course is required for all Juniors after successful completion of Biology and Chemistry and at

least concurrent enrollment in Algebra II.

COURSE DESCRIPTION: Why can't we move through walls? How do we protect ourselves from collisions? Why do astronauts appear to be floating in space? How do wireless chargers work? How do we see color? These are just some of the questions we will answer in physics by taking an in-depth look at the conceptual and mathematical models that describe the interactions of matter and energy. Students should have a decent grasp of Algebra I and some Geometry concepts. This course is designed to meet the Physics Michigan Science Standards including the NGSS cross cutting concepts and science and engineering practices. Placement in this course is determined by success in mathematics courses and teacher recommendation.

COURSE TITLE: CONCEPTUAL PHYSICS - 141

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Course is required for all Juniors after successful completion of Biology and

Chemistry/Conceptual Chemistry

COURSE DESCRIPTION: Why can't we move through walls? How do we protect ourselves from collisions? Why do astronauts appear to be floating in space? How do wireless chargers work? How do we see color? These are just some of the questions we will answer in conceptual physics by looking at a conceptual overview of the models that describe the interactions of matter and energy. Students do not need strong math skills to be successful. This course is designed to meet the Physics Michigan Science Standards including the NGSS cross cutting concepts and science and engineering practices. Placement in this course is determined by success in mathematics and chemistry courses and teacher recommendation.

COURSE TITLE: ANATOMY and PHYSIOLOGY - 344

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: 11th & 12th graders who have successfully completed Biology and Chemistry (not Conceptual

Chemistry) Students need to have earned a C or better in both Biology and Chemistry to be

successful in this course. Teacher recommendation is required.

COURSE DESCRIPTION: This course is intended for students interested in Biology, the human body, or a possible career in the medical field. This course will include an in-depth survey of human tissues, organs, and organ systems. Students are required to dissect a fetal pig as a mammal comparable to humans. This course is designed to meet the Michigan Science Standards for Life Science including the NGSS cross cutting concepts and science and engineering practices linked to living systems.

COURSE TITLE: ADVANCED PLACEMENT (AP) CHEMISTRY - 418

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: 11th & 12th graders who have successfully completed Chemistry and Algebra II. Teacher

recommendation is required.

COURSE DESCRIPTION: The AP Chemistry course is designed by the College Board and is the equivalent of the general college chemistry course taken during the first year of college. The course surveys Atomic Structure and Properties, Molecular and Ionic Compounds Structure and Properties, Intermolecular Forces and Properties, Chemical Reactions, Kinetics, Thermodynamics and Applications, Equilibrium, and Acids and Bases. Lab work is required and some lab work will be required out of normal class time--either before or after school or during Advisory. Summer work is necessary prior to the start of the school year.

COURSE TITLE: ADVANCED PLACEMENT (AP) BIOLOGY - 341

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: 11th & 12th graders who have successfully completed Biology and Chemistry. Teacher

recommendation required.

COURSE DESCRIPTION: The AP Biology course is designed by the College Board and is the equivalent of the general college biology course taken during the first year of college. This course requires students to read and study independently and master material not presented in class on their own. The course surveys Chemistry of Life, Cell Structure and Function, Cellular Energetics, Cell Communication and Cell Cycle, Heredity, Gene Expression and Regulation, Natural Selection, and Ecology. There are 4 big ideas that serve as the foundation of the course and allow students to create meaningful connections among course concepts. Big Idea 1: The process of evolution drives the diversity of life. Big Idea 2: Biological systems use energy and molecular building blocks to grow, reproduce, and maintain dynamic homeostasis. Big Idea 3: Living systems store, retrieve, transmit, and respond to information essential to life processes. Big Idea 4: Biological systems interact, and these systems and their interactions exhibit complex properties. Summer work is necessary prior to the start of the school year.



### AGRI-SCIENCE AND NATURAL RESOURCES

COURSE TITLE: ZOOLOGY - 189

COURSE CREDIT: 1 Credit
GRADE LEVEL: 9th - 12th grade

COURSE DESCRIPTION: Zoology is the study of animals and animal life. The purpose of this class is to better understand animal diversity (livestock, domesticated and wild). Students will develop an understanding of how animals are classified and identified based on form and function. Students will learn anatomy and physiology of different species. The role animals play in the ecosystem and their effect on the human population will be identified and studied. This course is a science credit; in addition, the curriculum includes Career & Technical Education (CTE) AFNR Standards, Biology Standards, Leadership Benchmarks, Career exploration, FFA, SAE, & STEM. Projects, laboratory activities and dissections are incorporated into this class. Projects include: job shadows, scientific experiments, discussion meet, leadership, and more. If a student earns a 75% or better in Botany and Zoology plus earns the State FFA Degree, then he/she will receive 6 college credits at Michigan State University. See instructor for more information.

COURSE TITLE: BOTANY - 175

COURSE CREDIT: 1 Credit
GRADE LEVEL: 9<sup>th</sup> - 12<sup>th</sup> grade

COURSE DESCRIPTION: Botany is the study of plants and plant life. We will study the importance of plants, plant ecology, and classification. Units include: basic plant care, soil, hydroponics, the ecological and economic importance of plants, plant anatomy, plant physiology, horticulture, floriculture and greenhouse management. This course is a science credit; in addition, the curriculum includes Career & Technical Education (CTE) AFNR Standards, Biology Standards, Leadership Benchmarks, Career exploration, FFA, SAE, & STEM. The school greenhouse will be utilized to apply many of the principles that we learn about in class. Projects include: job shadows, scientific experiments, discussion meet, leadership, and more. If a student earns a 75% or better in Botany and Zoology plus earns the State FFA Degree, then he/she will receive 6 college credits at Michigan State University. See instructor for more information.

COURSE TITLE: ADVANCED AFNR LEADERSHIP - 716

COURSE CREDIT: 1 Credit

GRADE LEVEL: 11th - 12th grade

COURSE PREREQUISITE: Successful completion of Botany and Zoology or with instructor approval.

COURSE DESCRIPTION: AFNR=Agriculture, Food & Natural Resources. This is an elective course, primarily focused on 11th and 12th graders who are interested in agriscience, food, natural resources, leadership and the FFA. Curriculum includes Career & Technical Education (CTE) AFNR Standards, as well as some Biology Standards, Career exploration, STEM, SAE & FFA. Work based learning is incorporated into this course. Membership in the FFA is required. This course does not earn Science Credit. Homework and projects are regularly assigned. Students should be able to work independently. If a student earns 75% or better in this course, then they earn 3 credits at Kellogg Community College. See instructor for more information.



### SOCIAL STUDIES

Michigan Merit Curriculum Required Courses

9th grade		
10 <sup>th</sup> grade	World History	
11 <sup>th</sup> grade	United States History – 1865 to Present	
12th grade	Economics and American Government	

COURSE TITLE: WORLD HISTORY - 231

COURSE CREDIT: 1 Credit
COURSE PREREQUISITE: 10th grade

COURSE DESCRIPTION: This required course begins with studies on the development of primitive people, the rise of civilizations like Greece and Egypt, and the Roman world. Medieval Europe and the Renaissance are studied next with an emphasis on European culture, the age of exploration, as well as history from the Far East. Students will look at the shift from the classical to modern world economies, governments, and societies. Finally, students will look at  $18^{th} - 20^{th}$  century revolutions and major wars, industrialization, and current world issues.

COURSE TITLE: ADVANCED PLACEMENT WORLD HISTORY - 845

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: B+ Grade or better in English 9 Honors or an A Grade in English 9 with teacher

recommendation

COURSE DESCRIPTION: AP World History is a college-level course that analyzes global patterns of historical development and exchange from roughly 8000 B.C.E. to the present. Using primary and secondary sources, AP World History students will track historical change and continuity within and across six periods of study, paying close attention to unifying course themes and accompanying learning objectives. Great emphasis is placed on the honing of historical thinking skills, such as chronological reasoning, comparison, contextualization, argumentation, interpretation, and syntheses. The course culminates with the national AP World History examination, which will be administered in May. Students will earn a weighted grade for this class and, if successful on the national examination, they could receive college credit at their preferred university.

COURSE TITLE: UNITED STATES HISTORY - 1865 TO PRESENT - 331

COURSE CREDIT: 1 Credit COURSE PREREQUISITE: 11th grade

COURSE DESCRIPTION: This required course covers the country's history from the post-Civil War Era to the present. The course entails a study of the political, geographical, cultural, economic, and societal changes that have helped shape this country and its people. Topics include the Reconstruction Era, the Gilded Age, the Progressive Era, World War I, the Roaring Twenties, the Great Depression, the events that led up to World War II and our involvement in that war, the Cold War Era, the Korean War, the Vietnam War Era, Watergate, and more recent events.

COURSE TITLE: ADVANCED PLACEMENT U.S. HISTORY (APUSH) - 844

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: B Grade or better in AP World History or an A Grade in World History AND B Grade or better in

English 10 Honors or an A Grade in English 10 AND Social Studies teacher recommendation

COURSE DESCRIPTION: Advanced Placement U.S. History is a college-level survey course of U.S. history from the pre-Columbian period to the present. Students will be expected to read a college level text, write historic essays that use primary and secondary sources of information with the ultimate goal being to pass the AP U.S. History exam in May. APUSH students will learn to think like a historian. Historical reasoning will be used on unit assignments and unit assessments where students will be asked to answer AP style multiple choice questions, answer short answer questions (SAQ's), longer essay questions (LEQ's) and document based essays (DBQ's). DBQ's allow students to analyze historical sources to back up their arguments. All written questions require students to present clear thesis statements.

COURSE TITLE: AMERICAN GOVERNMENT - 432

COURSE CREDIT: 1/2 Credit COURSE PREREQUISITE: 12th Grade

COURSE DESCRIPTION: This one (1) semester required course will cover the basics of American Government. We will study both the historical development and the structure of our government. The U.S. Constitution and the role that it plays in our daily lives will be emphasized. Additional topics include the electoral college, the Michigan State Government, and the formation of domestic and foreign policy.

COURSE TITLE: ADVANCED PLACEMENT UNITED STATES GOVERNMENT - 445

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: B Grade or better in APUSH or an A Grade in U.S. History AND B+ Grade or better in English

11 Honors or an A Grade in English 11 AND Social Studies teacher recommendation

COURSE DESCRIPTION: This will be a full year course which will greatly expand the coverage of topics in the required course, both in number and in detail. In addition, a major focus will be a comparison of U.S. Government with several other political systems around the world and preparation for the advanced placement exam.

COURSE TITLE: ECONOMICS/PERSONAL FINANCE - 279

COURSE CREDIT: 1/2 Credit COURSE PREREQUISITE: 12th grade

COURSE DESCRIPTION: This one (1) semester required course introduces students to a review of the basic economic concepts of scarcity, opportunity cost, and 6 core economic principles. An introduction to microeconomics and macroeconomics are the focus of this survey economics course. Concepts focusing on microeconomics include supply and demand, prices, market structures, business organizations and labor, money and banking and financial markets. Concepts focusing on macroeconomics include measuring economic performance, economic challenges, government in our economy (taxes, fiscal policy and monetary policy), and international trade.

### Social Studies Electives

COURSE TITLE: PSYCHOLOGY I - 431

COURSE CREDIT: 1/2 Credit

COURSE PREREQUISITE: 10th - 12th grades

COURSE DESCRIPTION: How does our environment affect our behavior? What role do genes and DNA play? Why do we have dreams while we sleep? How do we change over the course of our lifetimes? These are just a few of the questions we will consider in Psychology I, a course that explores the origins of psychology, the interaction between our brain and the environment, how we sense and perceive our environment, sleeping and dreaming, lifespan development, learning, and other psychological concepts. We will learn the scientific basis or psychological theories and research and how to apply psychological findings to the world around us.

COURSE TITLE: PSYCHOLOGY II - 440

COURSE CREDIT: 1/2 Credit
COURSE PREREQUISITE: 10th - 12th grades

COURSE DESCRIPTION: Why do people behave the way they do? How do we develop personalities? How good is our memory? These are just a few of the questions we will consider in Psychology II, a course that explores social psychology, memory, motivation, emotion, personality, stress, mental disorders, and other psychological concepts. We will learn the scientific basis of psychological theories and research and how to apply psychological findings to the world around us.

COURSE TITLE: ADVANCED PLACEMENT PSYCHOLOGY - 715

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Successful completion of Psychology I and II, previous success (3.6+) in an honors level ELA

class or AP course, and teacher recommendation

COURSE DESCRIPTION: The Advanced Placement Program offers a course and exam in psychology to qualified students who wish to complete studies in secondary school equivalent to an introductory college course in psychology. The exam presumes at least one semester of college-level preparation. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.



### WORLD LANGUAGE

COURSE TITLE: EXPLORING SPANISH - 278

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Available to incoming 8th grade students with a C+ or below in 8th grade ELA

COURSE DESCRIPTION: Exploring Spanish introduces the student to current examples of everyday speech through visuals and dialogues and allows the student abundant practice with these examples through a variety of interesting and functional exercises. It also introduces the student to everyday life and to provide a taste of the art, music, and literature of Spanish-speaking countries that form part of the greater cultural heritage shared by all people of the world.

COURSE TITLE: SPANISH I - 112

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: B or above in 8th or 9th Grade ELA/English course or completion of Exploring Spanish COURSE DESCRIPTION: In Spanish I, students learn practical vocabulary and grammatical constructions in order to produce conversations in the target language. Emphasis is placed on the acquisition of listening, speaking, and writing skills. In addition, students will be introduced to various aspects of culture and customs of the Spanish-speaking world.

COURSE TITLE: SPANISH II - 212

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Spanish I with a passing grade and/or instructor recommendation

COURSE DESCRIPTION: In Spanish II, students continue learning practical vocabulary and grammar in order to produce more complex conversation. Increased emphasis is placed upon listening, speaking, and writing skills acquired in Spanish I. Additionally, students will increase their knowledge of culture and customs of the Spanish-speaking world.

COURSE TITLE: SPANISH III - 312

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Spanish II with a passing grade and/or instructor recommendation

COURSE DESCRIPTION: In Spanish III, students apply knowledge of basic vocabulary and grammatical constructions introduced in Spanish I and II. Emphasis is placed upon the ability to master basic listening, speaking, and writing skills. Students are expected to produce written and oral examples of this mastery. Finally, grammatical concepts of higher complexity are introduced along with a more in-depth study of the culture and customs from the Spanish-speaking world as revealed in literature.

COURSE TITLE: SPANISH IV - 412

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Spanish III with a passing grade and/or instructor recommendation

COURSE DESCRIPTION: In Spanish IV, students demonstrate mastery of practical vocabulary and grammatical constructions, students will also complete their study of Spanish verb tenses and revisit vocabulary themes in greater depth and refine their speaking skills. Through continued literature study, students apply knowledge of the language and gain a greater understanding of customs and cultures from the Spanish-speaking world.

COURSE TITLE: ADVANCED PLACEMENT SPANISH LANGUAGE - 449

COURSE CREDIT: 1 Credit

COURSE PREREQUISITE: Spanish IV with teacher approval or Spanish III with placement test and teacher recommendation COURSE DESCRIPTION: Advanced Placement Spanish Language is a college level course. The goal of this course is to prepare students for the successful completion of the AP Spanish Language Exam offered each spring by the College Board. Participation in this exam, however, is optional. The successful completion of this exam will allow students to receive credit at most colleges and universities. The course is designed to provide students the opportunity to review and reinforce their knowledge as well as be introduced to new and advanced subject matter. Emphasis is placed on the various skill areas that appear on the AP Spanish Language Exam. These areas include: listening, vocabulary, vocabulary and structure, grammatical construction, reading, verb conjugation, essay writing and speaking. In addition, students will participate in activities designed to strengthen their understanding of the history and culture of the Spanish-speaking world. This course does NOT satisfy the English graduation requirement.

### MISCELLANEOUS COURSES/PROGRAMS



COURSE TITLE: COLLEGE AND CAREER READINESS - 590

COURSE CREDIT: ½ Credit
GRADE LEVEL: 9<sup>th</sup> - 12<sup>th</sup> grades

COURSE DESCRIPTION: Students will gain skills in organization, time management, leadership, critical thinking, and communication, which are all essential for moving on to post-secondary classes, jobs, and careers. This is an opportunity to develop self, career, and diversity awareness. Students will enjoy a variety of speakers and other hands-on learning activities.

COURSE TITLE: DUAL ENROLLMENT/ON-LINE LEARNING (21F) - 578

COURSE DESCRIPTION: MHS provides online learning and dual enrollment opportunities for our students. We adhere to Michigan's 21f legislation, as well as other corresponding state guidelines. Registration for 1st semester courses must be completed by May 15th prior to the year in which they will be taken. Registration for 2nd semester courses must be completed by November 15th of the school year the course will be taken. Please see your school counselor for information and the mandatory paperwork.

COURSE TITLE: LINKS - 607 (first semester), 608 (second semester)

COURSE CREDIT: ½ Credit per semester

COURSE PREREQUISITE: LINKS Teacher Approval and parent permission

COURSE DESCRIPTION: This course develops awareness and insight into individuals with an Autism Spectrum Disorder (ASD). Students are actively involved in the support of an ASD student during one period of class time during the MHS school day. LINKS is targeted toward Juniors and Seniors. Sophomores are considered on an individual basis.

COURSE TITLE: NEXXUS - 921
COURSE CREDIT: ½ Credit per semester

COURSE PREREQUISITE: CI Teacher Approval and parent permission

COURSE DESCRIPTION: This course develops awareness and insight into individuals with disabilities. Students are actively involved in the support of a student in the Cognitively Impaired program during one period of class time during the MHS school day. NEXXUS is targeted toward Juniors and Seniors. Sophomores are considered on an individual basis.

COURSE TITLE: ADVISORY - 89664
COURSE CREDIT: Effort Grade Only

GRADUATION REQUIREMENT: Required for all students

COURSE DESCRIPTION: Advisory is a four-year course required of all students who attend Marshall High School. This course is designed to be an educational extension of the student's regular scheduled classes. It is for enrichment, encouragement, remediation, and reinforcing concepts taught in those classes.

GOAL: All students will be able to identify their progress in their academic education, and personal growth goals as they transition from grade level to grade level through personal Education Development Plans (EDP).

GOAL: Provide students with opportunity to receive one-on-one or small group instruction related to the objectives in their regular classes.

GOAL: Provide extended time for experiential opportunities that are an extension of the regular classroom.

GOAL: To further develop skills that help prepare the student for responsibility and dependability. They include setting and accomplishing goals, doing your best, making decisions, acting honestly, and exercising self-control.

- Attend school/work daily and on time
- Meet school/work deadlines
- Develop career plans
- Know personal strengths/weaknesses
- Demonstrate self-control
- Pay attention to details
- Follow written instructions and directions
- Follow verbal instructions and directions
- Work without supervision
- Identify and suggest new ways to get the job done
- Learn new skills

<u>GOAL</u>: To further develop skills that help prepare the student for the ability to work cooperatively with a group. They include organizing, planning, listening, sharing, flexibility and leadership.

- Actively participate in a group
- Follow the group's rules and values
- Listen to other group members
- Be sensitive to the group member's ideas and views
- Be willing to compromise, if necessary, to best accomplish the goal
- Be a leader or follower to best accomplish the goal
- · Work in changing settings and with people of differing backgrounds



### Program Descriptions By Pathway

475 East Roosevelt Avenue ● Battle Creek, Michigan 49017
Phone (269) 968-2271 ● Fax (269) 968-4344 ● www.calhounisd.org/CACC

It is the policy of the Calhoun Intermediate School District to provide an equal opportunity for all individuals and not to discriminate on the basis of religion, race, color, national origin, ancestry, sex, disability, height, weight, marital status or age in its programs, services, activities or employment. With respect to employment, the District does not discriminate on the basis of genetic information. The following person has been designated to handle inquiries regarding the district's nondiscrimination policies. Assistant Superintendent for Human Resources, Calhoun Intermediate School District, 17111 G Drive North, Marshall, MI 49068; (269)781-5141 or fax (269)781-7071.

### **Graphic Communications Technology**

Students explore and develop skills in all aspects of the graphics industry, from design to completion of printed media. Students use professional graphic software programs to design media, such as calendars, posters, and other printed messages. In addition, students will be introduced to digital media including photography and movies while creating a digital portfolio. Students also learn skills in the production printing stages of pre-printing, printing, and finishing. Successful students will be prepared to enter entry-level careers in the graphics field, as well as obtain advanced placement in related college programs.

### Early Childhood Education

The Early Childhood Education Program provides students an opportunity to explore early childhood education as a career field. It prepares students to work with and educate children from birth through eight years of age. Students will gain skills and knowledge in development, discipline, health, safety, communication, planning, preparing, and presenting activities. The program also provides the students with practical work experience in various preschool programs in the community. Upon successful completion of the program, students can earn articulation credits (free college credits) at Kellogg Community College and colleges and universities throughout Michigan. Students also have the opportunity to earn their Child Development Associate (CDA). The CDA requires two years in the program with additional hours working with children from ages 3 to 5 years old.

### **Education Academy**

The Education Academy Program provides students an opportunity to explore education as a career field. In addition to coursework at CACC, students will cadet teach at various K-12 education sites within the Calhoun Intermediate School District. Local educators will act as mentor teachers. Students will examine the multiple responsibilities and roles of K-12 teachers, classroom management, learning styles, instruction, curriculum, and professional skills. This program will assist students with college and career planning. Upon successful completion of the program, students can earn articulation credits (free college credits) at local colleges and universities in Michigan. This program has prerequisites.

### Law Enforcement

Law Enforcement students will explore and prepare for careers in criminal justice, corrections, and related fields. Major areas of study include: Police investigation, crime scene investigation (CSI), corrections, legal issues, security, human relations, police operations, and administration.

### **Criminal Justice**

Students will be taken on a journey through the Criminal Justice process. Students will read and write crime reports and learn about a variety of disciplines that make up the criminal Investigation response to crimes. Students will be exposed to law enforcement Investigations, including specialty areas within police work, crime scene investigations, forensic science, expert witness, and the victim advocate. The role of courts, probation, and parole agents in their efforts to modify behavior and deter crime. This program is very interactive with a variety of teaching tools. Upon completion students will have a solid foundation on which to consider pursuing one of the many rewarding and satisfying careers in Criminal Justice.

### **Agriscience**

Agriscience is designed for students to develop fundamental knowledge and explore opportunities within the Agriculture, Food and Natural Resources Pathway. The program curriculum includes: Animal Science, Plant Science, Food Systems and Environmental Science. In addition to receiving training in the above areas, the following content will be taught: Leadership, Lab Safety and Protocol, and Business Management & Entrepreneurship. Included in this program are hands-on activities, academics, leadership opportunities, work-based learning and career planning. Students will have the opportunity to participate in the FFA Organization on local, state and national levels. Furthermore, students will travel to various agricultural industries throughout the year. Upon completion, students will have gained a basic awareness of agricultural sciences.

Culinary Arts/Hospitality

The Culinary Arts/Hospitality Program is designed to be a two-year program that incorporates the National Restaurant Association's "ProStart" curriculum. Students will explore potential career paths in the food service industry, with emphasis on technical skills, customer relations, restaurant organization, and the ServSafe sanitation program. Students will complete career exploration and study projects in the hospitality industry, which includes lodging and travel and tourism. Students who successfully complete the program will receive nationally recognized certificates.

**Networking & Cybersecurity** 

The Networking & Cybersecurity course focuses on Linux servers, and computer / network hardware in alternating years. Students also have the opportunity to participate in Cybersecurity competitions each year. At the end of two years, students will be able to build and repair computers, pull network cables, and securely configure operating systems, routers, and switches. Successful students will have the opportunity to take the following industry certification exams: Cisco CCT, LPI Linux Essentials, CompTIA A+, Network+, and Linux+. A wide variety of high paying jobs and opportunities await students who earn certifications.

**Programming & Video Game Design** 

Programming & Video Game Design is a one or two-year course that focuses on learning the logic and code for video games and Internet of Things (IOT) devices. Students will learn to code 2D and 3D video games and other associated skills, such as photo editing, to use in their games. The course also teaches students to wire and code IOT using Raspberry Pi and Arduino Boards. The IOT devices read input from sensors and perform tasks based on the detected values. No prior coding experience necessary. Enrollment is open to Juniors and Seniors alike. Languages studied include, Python, Arduino (C++), Bash, HTML5, CSS, JavaScript, PHP, and more. Certification options are available.

**Emergency Medical Technician (EMT)-Basic** 

The EMT Basic Program, offered in collaboration with Kellogg Community College (KCC), is the entry point for Individuals who are interested in working on the ambulance in the pre-hospital setting, those interested in a career where they need to be trained as a first responder, or students that may have an interest in becoming a paramedic. Students will learn immediate medical care techniques for the critically ill/injured person, including Airway Management, CPR, AED Auto Rescue/Extrication, Water Rescue and Emergency Childbirth. CPR Certification and EMT Certification are available for students who successfully complete the program and pass the state exams. In addition to classroom and lab time, students will be required to complete the following out of school hours: 40 clinical hours, basic water rescue and extrication training. This program has prerequisites.

**Health Careers Prep** 

Health Careers Prep is designed for those students who have an interest in health careers but are looking for something less traditional. The program offers a wide range of experiences, which include basic medical skills in patient care, records management, and medical communication. Students will explore careers such as sports medicine, substance abuse counseling, dietary science, and forensic science. The area of study will vary from year to year based on student interest and the job market, which is unique to this program.\*

**Health Occupations** 

The Health Occupations Program provides students an opportunity to explore health care as a career field. In addition to coursework at CACC, students will gain practical work experience at Calhoun County Medical Care Facility, Heritage Assisted Living Facility and various other medical facilities in the community. Students explore careers in bio-medical engineering, forensics, dental science, pharmacology, veterinary science, therapeutic services, medical imaging, clinical laboratory skills, and speech therapy.

21st Century Health Careers

The 21st Century Health Careers Program is designed to introduce high school juniors and seniors to potential career paths in the healthcare industry. The program is a partnership between Bronson Battle Creek, Kellogg Community College, and the Calhoun Area Career Center. Students will receive an introduction to a variety of health career skills including: clinical skills, medical ethics, human anatomy, communication, medical terminology, emergency procedures, and many more. During the two years in the program, students will take three (3) Kellogg Community College classes, for a potential total of eleven (11) college credits. Following the introduction, students spend a portion of each month in a hospital or other medical setting. Students become part of an interesting and challenging team, learning new skills with professionals in the medical field. This program has prerequisites.\*

\*Eligible students in Health Careers Prep, Health Occupations and 21st Century Health Careers have the opportunity to participate in the KCC CNA program.

### **Automotive Service Technology**

Automotive Service Technology is a two-year course offering training in the areas of Engine Repair, Automatic Transmission/ Transaxle, Manual Drive Train and Axles, Suspension and Steering, Brakes, Electrical/Electronic Systems, Heating and Air Conditioning, and Engine Performance. The automotive technical tasks learned in this course are transferable to Automotive, Aeronautical, Military, and Engineering service fields. The course meets the National Automotive Technician's Education Foundation (NATEF) standards for Automotive Service Excellence (ASE) certification in Maintenance and Light Vehicle Repair.

### **Aviation Exploration**

Aviation Exploration is designed for students interested in any career in the aviation industry, and offers college credit for their work. The program exposes students to multiple aspects of the industry, whether they want to be an aircraft mechanic, a pilot, air traffic controller, or work in aviation administration. This broad, survey course is their passport into the industry. The program is designed to guide successful students into the joint enrollment program with Kellogg Community College and Western Michigan University College of Aviation for their specific technical studies.

### Collision Repair Technology

Students learn basic hands-on skills including sheet metal repair, M.I.G. welding, plasma arc cutting, body repair, sanding techniques, plastic repair, undercoat and topcoat mixing, refinishing techniques, and other collision related tasks. Students will specialize in painting and refinishing using NATEF program standards. Emphasis is placed on the repair of damaged vehicle exteriors.

### **Construction Technology**

Students develop practical and intellectual skills needed in construction trades. Students will demonstrate Skill Mastery I in most aspects of Construction Framing I the first year by framing true to scale projects in the lab. Students receive safety training, OSHA testing along with basic knowledge/use of tools. Specific areas of focus include roofing & siding installation and masonry. Second year students will receive additional training through work-based learning opportunities outside of the classroom. Students will be exposed to several different trades associated with the building trades industry, such as masonry, heavy equipment, electrical, plumbing, HVAC, and others.

### Intro to Robotics & Engineering

This program combines robotics and engineering. Students will learn electrical, mechanical and fluid power principles. They will then apply those principles to hands-on projects in the lab. Students will receive safety training in the following areas: general safety, basic electrical safety, basic robot safety and basic lockout-tagout safety. Students will learn to sketch ideas, prepare a project proposal, and do project presentations. During this program, students will create their own portfolio, which will include; a resume, letter of introduction, certificates of completion, awards received, and various student accomplishments. Students will learn how to write robot programs, enter and simulate the program in the software and download and run the program on a robot. Students will also learn to use various types of sensors and end of arm tooling. CACC robots are the same robots used in industries such as food processing, welding, manufacturing, logistics and medical research. Students have the opportunity to earn the following industry-recognized certificates: OSHA-10 general safety, FANUC CERT (Certified Education Robot Training).

### Power Equipment Technology

This program introduces students to the fundamental skills required to enter the exciting field of repairing powered equipment, beginning with an introduction to basic fabrication skills, including welding, soldering, plasma cutting and precision measuring. Students learn to troubleshoot and repair all types of equipment from weed whackers to generators, to riding mowers and semi trucks. This NATEF certified medium and heavy truck repair program covers five key areas of repair: electrical systems, engine repair, steering and wheel alignment, preventive maintenance and inspection, and brake systems (air and hydraulic).

### Welding Technology

The Welding Technology Program is a two-year program preparing all students for skills and various processes including; Shielded Metal Arc Welding (S.M.A.W.) Gas Metal Arc Welding (G.M.A.W.) Gas Tungsten Arc Welding (G.T.A.W) and Oxy Fuel Welding (O.A.W). Students spend time in welding booths and transfer skills repairing and fabricating projects. Students may compete in regional and state competitions in using various types of materials, creating metal-working projects and hands-on welding. CACC students will have an opportunity to compete against other schools and career centers throughout the state. Students are eligible to earn articulation credits through several local colleges and universities in Michigan for tasks completed at CACC.

DISCLAIMER: DURING THE SCHOOL YEAR, THE CACC HANDBOOK POLICIES AND PROCEDURES ARE SUBJECT TO CHANGE PURSUANT TO EXECUTIVE ORDERS, STATE OF MICHIGAN MANDATES, CALHOUN ISD BOARD ACTION AND/OR CHANGES IN LAW.