

GRAND LEDGE HIGH SCHOOL



2022-2023 COURSE DESCRIPTION GUIDE

WELCOME TO COMET COUNTRY!

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COURSE LISTING

COURSE	PAGE	GRADE		COURSE	PAGE	GRADE
ENGLISH				MATH		
ENGLISH 9 A & B	15	9th		ALGEBRA 1 A & B	28	9th
ENGLISH 10 A & B	15	10th		ALGEBRA 2 A,B & C	29	9th
ENGLISH 11 A & B	15	11th		GEOMETRY A & B	28	9th
ENGLISH 12 A & B	16	12th		HONORS ALGEBRA 2A,B & C	29-30	9th
BRITISH LITERATURE A & B	16-17	11th		MATH ELECTIVES		
AFRICAN AMERICAN STUDIES A & B	16	11th		ELEMENTARY STATISTICS	30	9th
ENGLISH ELECTIVES				COLLEGE PREP MATHEMATICS	30	11th
JOURNALISM A & B	18	9th		APPLICATIONS OF FUNCTIONS	30	11th
SPEECH 1 & 2	18-19	9th		PRE-CALCULUS A,B & C	31	11th
NEWSPAPER STAFF	18	9th		PROBABILITY AND STATISTICS A & B	31-32	11th
AFRICAN-AMERICAN STUDIES A & B	16	10th		AP STATISTICS A,B & C	32	11th
COLLEGE WRITING	17	10th		AP CALCULUS AB A,B & C	32	11th
LGBTQIA+ LITERATURE & HISTORY	18	10th		AP CALCULUS BC A,B & C	32	11th
LITERARY FILM STUDIES	18	10th		SENIOR MATH		
ANNUAL STAFF (YEARBOOK)	19	10th		FINANCIAL AND LIFE SKILLS	21	11th
CREATIVE WRITING A & B	17	11th		AP STATISTICS A,B & C	32	11th
AP ENGLISH LITERATURE & COMP	19	11th		ELEMENTARY STATISTICS	30	9th
AP ENGLISH LANGUAGE & COMP	19	11th		APPLICATIONS OF FUNCTIONS	30	11th
SCIENCE				COLLEGE PREP MATHEMATICS	30	11th
BIOLOGY A & B	38	9th		PRE-CALCULUS A,B & C	31	11th
HONORS BIOLOGY A & B	39	9th		AP CALCULUS AB A, B, & C	32	11th
PHYSICAL SCIENCE P & C	39	10th		AP CALCULUS BC A, B, & C	32	11th
CHEMISTRY A & B	39-40	10th		PROBABILITY AND STATISTICS A & B	31-32	11th
PHYSICS A & B	40	10th		ACCOUNTING 1A & 1B	12	11th
AP BIOLOGY A, B & C	40	10th		BUSINESS FINANCE	12	11th
AP CHEMISTRY A, B & C	41	10th		MARKETING 1A,1B & 1C	13	10th
AP PHYSICS 1 A, B & C	41	10th		MARKETING 2 A, B & C	13	10th
SCIENCE ELECTIVE				BEGINNING DRAFTING A & B	36	9th
ASTRONOMY	42	9th		BEG DESIGN ENGINEERING 1A & 1B	36	9th
GEOLOGY OF GRAND LEDGE	42	9th		ADV DESIGN ENGINEERING 1A&1B	36	10th
ANATOMY AND PHYSIOLOGY A,B,C	42	11th		ADV DESIGN ENGINEERING 2A & 2B	36	10th
SOCIAL STUDIES				TECHNICAL DRAFTING 1A & 1B	37	9th
US HISTORY A & B	44	9th		TECHNICAL DRAFTING 2A & 2B	37	10th
CIVICS	46	9th		TECHNICAL DRAFTING 3A & 3B	37	10th
WORLD HISTORY A & B	44-45	10th		PERFORMING ARTS		
AFRICAN AMERICAN STUDIES A & B	45	11th		COMET BAND	34	9th
BASIC ECONOMICS	45	10th		CONCERT BAND	34	9th
US GOVERNMENT	46	11th		SYMPHONY BAND	34	9th

SOCIAL STUDIES ELECTIVE			WIND SYMPHONY	34	9th
BUSINESS LAW	46	11th	VOCAL ENSEMBLE	35	10th
GLOBAL STUDIES A & B	46-47	10th	BEL CANTO	34	9th
LEADERSHIP/STUDENT COUNCIL	47	9th	CONCERT CHOIR	34	10th
PSYCHOLOGY A,B,& C	47	10th	MADRIGAL SINGERS	35	11th
SOCIOLOGY A,B,& C	47-48	10th	DANCE	35	9th
SUPPORT LINK (PEER TO PEER)	48	10th	MUSIC TECH	35	9th
AP ECONOMICS (MACRO & MICRO)	48	11th	THEATER	35	10th
AP PSYCHOLOGY A,B,& C	49	11th	PRACTICAL ARTS		
AP US HISTORY A,B,& C	49	10th	BEGINNING DRAFTING A & B	36	9th
AP WORLD HISTORY-MODERN	49	12th	BEG DESIGN ENGINEERING 1A & 1B	36	10th
HEALTH & WELLNESS			ADV DESIGN ENGINEERING 1A & 1B	36	10th
PHW HEALTH	21	9th	ADV DESIGN ENGINEERING 2A & 2B	36	11th
PHW PHYSICAL EDUCATION	21	9th	TECHNICAL DRAFTING 1A & 1B	37	10th
FAMILY & CONSUMER SCIENCE/PHY ED			TECHNICAL DRAFTING 2A & 2B	37	10th
TEAM SPORTS 9 & 10	22	9th	TECHNICAL DRAFTING 3A & 3B	37	11th
NUTRITION EDUCATION	22	9th	VISUAL ARTS		
FAMILY IN SOCIETY	21	10th	ART 1	50	9th
PARENT/CHILD A W/BABY	22	10th	CERAMICS 1 & 2	50	9th
PARENT/CHILD B WO/BABY	22	10th	DRAWING	50	9th
WOMEN'S PERSONAL CONDITIONING	22	10th	PRINTMAKING	51	9th
PERSONAL CONDITIONING CO-ED	22	10th	SCULPTURE	51	9th
TEAMS SPORTS 11 & 12	22	11th	METAL & JEWELRY DESIGN 1 & 2	50	10th
11TH & 12TH GRADE HEALTH	21	11th	PAINT AND COLOR COMPOSITION	51	11th
FINANCIAL AND LIFE SKILLS	21	11th	STUDIO ART	51	10th
WORLD LANGUAGE			BUSINESS		
FRENCH 1 -5	23-24	9th	INTRO TO BUSINESS A & B	13	9th
GERMAN 1-5	24-26	9th	INTRODUCTION TO PROGRAMMING	13	9th
SPANISH 1- 5	26-27	9th	ACCOUNTING 1A & 1B	12	10th
SPANISH 1- 5	26-27	9th	ACCOUNTING 2A & 2B	12	11th
			BUSINESS FINANCE	12	10th
			MARKETING 1A,1B & 1C	13	10th
			MARKETING 2 A, B & C	13	10th
			VIDEO PRODUCTION	13	10th
			WEB DESIGN	14	10th

GRAND LEDGE HIGH SCHOOL GRADUATION REQUIREMENTS

Class of 2020 and beyond ~

English:	8 credits
Math:	7 credits
Science:	6 credits
Social Studies:	6 credits
Physical Education/Health:	2 credits
Visual, Performing & Applied Arts:	2 credits
World Languages:	4 credits
Online Learning Experience:	See Note*
Other classes:	25 credits
Credits for graduation:	60 credits

*Grand Ledge High School incorporates the 20 hours of online required learning experience within courses throughout students 9 – 12th grades.

Class Assignment:

The number of earned credits determines membership in a particular graduating class, not by the number of trimesters enrolled in high school. At the beginning of each school year:

Students with 0 – 14 credits are assigned	9th grade status
Students with 15 – 29 earned credits are assigned	10th grade status
Students with 30 – 44 earned credits are assigned	11th grade status
Students with 45 or more credits are assigned	12th grade status

*Students **will complete** their high school courses within **4 years**.

*Student **MUST** complete the **Michigan Merit Exam** (M-STEP, SAT, ACT WORK Keys)

*Students **MUST** complete a minimum of **57 credits** to be considered for graduation.

RECOMMENDED COURSEWORK FOR COLLEGE PREP

Grade 9

English 9
Algebra/Geometry
Biology/Honors Biology
9th Grade U.S. History
World Languages
PE/Health
Electives

Grade 10

English 10
Geometry/Algebra 2
Chemistry/Physics
10th Grade World History
World Languages
Electives

Grade 11

English 11 or American Studies
Algebra 2/Precalculus
Chemistry/Physics/Science of Choice
World History
Civics/Basic Economics
Electives

Grade 12

English 12 or Brit Literature
Math of Choice
Science of Choice
Social Studies of Choice
Electives

RECOMMENDED COURSEWORK FOR CAREER READINESS

Students considering a Career Center Program should meet with their counselor to choose electives that will support further learning in their area of interest.

Grade 9

English 9
Algebra
Biology
9th Grade U.S. History
World Languages
PE/Health
Electives

Grade 10

English 10
Geometry
Chemistry
10th Grade World History
World Languages
Electives

Grade 11

English 11 or American Studies
Algebra 2
Civics/Basic Economics
Science of Choice
World History
Career Center Program

Grade 12

English 12 or Brit Literature
Math Experience
Career Center Program

SPECIAL PROGRAMS

Advanced Placement Courses

AP courses are offered in the following curricular areas:

	3 Trimesters	2 Trimesters
Business		Introduction to Programming
English	English or Literature	
World Language	Spanish	
Math	Calculus Statistics	
Science	Chemistry, Biology or Physics	
Social Studies	History	Macro Economics Micro Economics

Colleges may award credit if the student receives a qualifying score on an AP test administered in the spring. **See an AP instructor or counselor for more information.**

Cooperative Highly Accelerated Math Program (CHAMP)

CHAMP, a highly accelerated mathematics program is available to exceptional math students. **See your counselor for more information.**

Credit Recovery

Correspondence School

Correspondence courses allow a student to complete lessons and take tests at home. A student may only enroll for a limited number of elective credits through the American Schools and cannot take a course that will apply toward Michigan Merit Curriculum required English, math, science or social studies credits.

Online Courses

Students will be encouraged to work on these courses outside of their school day to ensure recovery of credits.

Summer School

Summer school is offered each year for students who have failed a required class. Applications will be available in the Student Services Office in May.

Students interested in taking classes for credit recovery should consult their high school counselor and or principal.

Dropping a course

Should it become necessary for educational or legal documented reasons for a student to drop a class after the first week of the trimester, the decision will rest with the administration after conferring with the counselor, parent, teacher and student. The student may or may not be dropped from the class without penalty. It may become necessary for the administration to drop a student from a class because of attendance or disciplinary problems, in which case the student will receive an "F" for the trimester. If a course is dropped after 5 weeks, the student will receive an "F" for the course.

Dual Enrollment

Dual enrollment is an educational option available to high school students in grades 9-12. A student can enroll in a community college or university (post-secondary course/s) outside of the high school program and earn high school as well as post-secondary credit providing specific requirements are met. In addition, the school district will assist in paying tuition and fees for students who qualify for dual enrollment. A student applying for dual enrollment in grade 11 must have taken either the PSAT or the PLAN and received dual enrollment qualifying scores. A student applying for dual enrollment in grade 12 must have taken the MME and received a score of (1) or (2) in the subject area in which they plan to dual enroll. If a post-secondary course qualifies for dual enrollment credit, it must be an academic or career related course that is not offered or not available to the student at Grand Ledge High School. **See your counselor for more information.**

ESL Student Programming/Grading

ESL students qualifying for LEP (Limited English Proficiency) support will be eligible for an alternate grading system as well as 2 courses per trimester of direct support. **See the ESL coordinator or your principal for more information.**

Freshman Support

Freshman Seminar

This course will teach the roles and responsibilities of being a Grand Ledge High School student. Students will evaluate progress in the form of grades, attendance, and behavior expectations. Students will also develop strategies for organizing materials both physical (pencil paper) and online platforms. Finally, they will prioritize communication with teachers and parents to create a strong support system.

Intensive Studies in Humanities, Arts, Language and Literature Program (ISHALL):

ISHALL is an accelerated, intensive two-year course in literature and language designed to meet the curricular goals and merit standards of high school English. **See your counselor for more information.**

Online Learning

Limited enrollment is available in a variety of interactive online courses offered through the Michigan Virtual High School (www.mivhs.org) as well as Edgenuity 2020. **See your counselor for more information.**

Personal Curriculum

Students at Grand Ledge High School are able to apply for a personal curriculum. The purpose of a personal curriculum is to allow students to further study an area of interest within the time scope of 4 years of high school. **See your counselor for more information.**

Reduced Schedule Guidelines

Students may have a reduced schedule after meeting the guidelines and requirements for an IEP or a 504. Seniors who are in EXCELLENT academic & social standing, have completed ALL graduation requirements, and have permission from their next school placement may apply for a senior hour during their last trimester of high school.

Testing Out

According to state guidelines, high school students in Michigan have the opportunity to test out of any course offered by his/her school. Testing out exams are administered in the fall of each year. A student who achieves a grade of 80% or higher on the exam will earn high school credit toward graduation. **See your counselor for more information.**

SCHEDULING GUIDELINES

Enrollment into classes and sections is based on a class priority system (senior, juniors, sophomore, etc.) to ensure that students are afforded the opportunity to meet all graduation requirements.

Course Requests

It is very important that students consider their course selections carefully. Students will select their course requests for the following school year through online scheduling in the Spring. You must sign up for a total of 15 classes for the year plus 4 alternates at Grand Ledge High School. **If you do not choose 15 classes and 4 alternates, they will be chosen for you.**

The school master schedule of courses and number of sections for each course is developed based on student course requests. Once the master schedule has been completed, the ability to change courses and/or selections is very limited.

Student Orientation

Student schedules will be handed out during orientation prior to school starting. Students will have their school pictures taken and school IDs will be prepared for students during this time. All forms and documents must be turned in during the orientation prior to starting school.

**Students will be expected to follow their schedule on the first day of school.
No schedule changes will be made on the first day of any trimester.**

Schedule Change Requests

Students may request a change prior to the beginning of a trimester based only on the following needs:

- Inappropriate placement into a class where the student does not meet the pre-requisites.
- A change to meet graduation requirements.

Failure of courses will result in schedule changes aimed at providing students with the best opportunity to meet graduation requirements within 4 years of entering high school. Due to contractual guidelines, we are not able to accommodate student/parent requests for specific teachers.

HIGH SCHOOL ATHLETIC OPPORTUNITIES

Grand Ledge High School offers many opportunities for students to participate in Interscholastic Athletics. Students should realize that they do not have to be of super-human height or strength to try out for an athletic team of their choice.

Students who intend to try out for a team must have a physical examination before they try out and must meet other MHSAA eligibility regulations before they can actually compete in a sanctioned game. A family doctor can give physical exams or a student may go to one of the local clinics or have their physical done at the high school when they are offered during the year. Announcements regarding physicals are made at the high school, in the Grand Ledge Independent and on the Grand Ledge Public School website. Any questions about athletics can be directed to the Athletic Director.

The table below gives you some ideas of sports opportunities available to you. Make note of the fact that every attempt has been made to make these activities available to both the males and females of our school. As coaches change, so do pre-season workouts. If you have questions about a particular sport, be sure to contact the Athletic Director or the coach of that sport.

FALL:

◆ Boys' Tennis	Mid-August - September, into October
◆ Girls' Swimming	Mid-August - September, to mid-November
◆ Girls' Volleyball	Mid-August to November
◆ Boys' Football	Mid-August - Sept. to second week of Nov.
◆ Girls' Golf	Mid-August to mid-October
◆ Boys'/Girls' Cross Country	Mid-August to first week of November
◆ Boys' Soccer	Mid-August to first week of November
◆ Sideline Cheer	Mid-August to middle November for fall

WINTER:

◆ Competition Cheer	November to March for winter
◆ Girls' Basketball	Second week in November to March
◆ Girls' Gymnastics	October to March
◆ Boys' Basketball	Second week of November to March
◆ Boys' Hockey	November to March
◆ Boys' Wrestling	Third week of November to first week of March
◆ Boys' Swimming	Last week of November to March

SPRING:

◆ Boys' Golf	Mid-March to first week of June
◆ Girls' Softball	Mid-March to third week of June
◆ Boys'/Girls' Track	Mid-March to first week of June
◆ Girls' Tennis	Mid-March to first week of June
◆ Boys' Baseball	Mid-March to third week of June
◆ Girls' Soccer	Mid-March to first week of June
◆ Boys' & Girls' Lacrosse	Mid-March to June

NCAA APPROVED CORE COURSES**ENGLISH**

American English Usage
American Studies A & B
British Literature A & B
College Writing
Creative Writing 1 – Fiction
Creative Writing 2 – Fiction
Debate A & B
English 9
English 10
English 11
English 12
Journalism A & B
AP English Lang & Comp A, B & C

Speech 1
Speech 2
AP English Comp & Lit A, B & C

SOCIAL STUDIES

American Studies A & B
AP Economics
AP United States History A, B & C
Basic Economics
Civics
Global Studies A & B
Psychology A & B
Sociology A & B
US Government
US History A & B
World History A & B

MATHEMATICS

Algebra 1 A & B
Algebra 2 A, B & C
AP Calculus A, B & C
AP Statistics A, B & C
Geometry A & B
Honors Algebra 2 A, B & C
Pre-Calculus A, B & C
Probability & Statistics A & B

NATURAL/PHYSICAL SCIENCE

Anatomy/Physiology A & B
Astronomy

Biology A & B
AP Biology A, B & C
Conceptual Chemistry A & B
Chemistry A & B
AP Chemistry A, B & C
Physical Science A & B
Conceptual Physics A & B
Physics A & B

ADDITIONAL CORE COURSES

French 1, 2, 3 & 4
German 1, 2, 3 & 4
Spanish 1, 2, 3 & 4

Visit www.ncaa.org for further information.

CAREER PATHWAYS GUIDE

Before you choose elective classes, think about your career plans. Most careers fall into one of the six “career pathways.”

Rank the pathways below from 1-6, depending on your level of interest (1=MOST INTERESTED, 6= LEAST INTERESTED).

Your Educational Development Plan (EDP) should include high school course electives that are related to your career pathway preferences.

Xello (Formerly Career Cruising) Can be used to research careers and document plans.

Arts & Communications

Careers related to the humanities and to the performing, visual, literary and media arts. These careers include creative or technical writing, illustrating, graphic designing, publishing, theatre arts, journalism, languages, radio and television broadcasting, photography, advertising and public relations. Specific examples include artists, journalists, industrial designers, musicians, photographers and theatre technicians.

Business, Management, Marketing & Technology

Careers related to all aspects of business including accounting, business administration, finance, information-processing and marketing. These careers include entrepreneurship, sales, marketing, hospitality and tourism, computer/information systems, finance, office administration, human resource management, economics and general management. Specific examples include accountants, business managers, salespersons, buyers, computer network administrators, secretaries and stock analysis.

Engineering, Manufacturing & Industrial Technology

Careers related to the technologies necessary to design, develop, install or maintain physical systems. These careers include occupations in designing, engineering and science, service technicians, manufacturing technology, transportation and construction. Specific examples include architects, airplane pilots, engineers, carpenters, microcomputer specialists, equipment operators, technicians and mechanics.

Health Services

Career related to the promotion of health as well as the treatment of injuries, conditions and diseases. These careers include medicine, dentistry, nursing, therapy and rehabilitation, nutrition, fitness and hygiene, public health and veterinary science. Specific examples include physicians, nurses, pharmacists, health facility administrators, dental assistants, veterinarians, physical therapists and medical technicians.

Human Services

Careers in childcare, civil service, education, hospitality and the social services. These careers include law and legal careers, law enforcement, public administration, child and family services and social work. Specific examples include postal workers, police officers, lawyers, teachers, counselors, school administrators, fire fighters, clergy, classroom aides, caseworkers, psychologists and social workers.

Natural Resources & Agri-Science

Careers related to natural resources, agriculture, science and the environment. These careers include agriculture, earth sciences, environmental sciences, forestry, horticulture, wildlife management, fisheries management and agri-science. Specific examples include landscape architects, plant scientists, marine biologists, environmentalists, turfgrass managers, farmers and agricultural equipment operators.

<p style="text-align: center;">Grand Ledge Public Schools HIGH SCHOOL BUSINESS SERVICES TECHNOLOGY PROGRAM</p>
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ACCOUNTING 1A

Grades 10-12

This course meets the MMC requirement for a Senior year math credit if taken while a Senior

This course is recommended for students who want to own their own business, would like to major in business as their post-secondary choice, or an overall view of math concepts for businesses or personal transactions. Students will learn the accounting cycle and maintain financial records for single ownership and corporations. Instructions will include journalizing and posting basic accounting transactions, buying and selling goods or services, and payroll functions. The course is instructed with Cengage Mindtap which are online working papers, textbooks, and guided activities.

ACCOUNTING 1B

Grades 10-12

This course meets the MMC requirement for a Senior year math credit if taken while a Senior

Prerequisite: Accounting 1A

This second accounting course is designed for students who want: (1) to obtain the accounting skills necessary to advance to the level of bookkeeper following experience as an accounting clerk; (2) to go on to college and major in accounting or some phase of business; or (3) to broaden and improve their knowledge, understanding, and application of accounting principles. At this level, the complete accounting cycle is mastered and students learn more advanced, complex accounting principles. Using manual and computer skills, students perform accounting tasks for merchandising businesses organized as corporations. Using computers skills, students continue to master the accounting cycle.

ACCOUNTING 2A

Grades 11-12

This course meets the MMC requirement for a Senior year math credit if taken while a Senior

Prerequisite: Accounting 1B

Accounting II begins with a review of the basic concepts learned in the 1st year of accounting. Once that is completed, you will begin to learn more in-depth accounting principles dealing with more than the day-to-day operations. These principles include dealing with notes payable and receivable, depreciation, and analyzing and interpreting financial statements. If you are considering a career in this area or any other business area, this course will provide useful knowledge and background for your college business classes.

ACCOUNTING 2B

Grades 11-12

This course meets the MMC requirement for a Senior year math credit if taken while a Senior

Prerequisite: Accounting 2A

Accounting II begins with a review of the basic concepts learned in the 1st year of accounting. Once that is completed, you will begin to learn more in-depth accounting principles dealing with more than the day-to-day operations. These principles include dealing with notes payable and receivable, depreciation, and analyzing and interpreting financial statements. If you are considering a career in this area or any other business area, this course will provide useful knowledge and background for your college business classes.

BUSINESS FINANCE

Grades 10-12

This course meets the MMC requirement for a Senior year math credit if taken while a Senior

This course presents the principles and practices of banking, credit, and consumer lending in the United States. Additional emphasis is placed on money, credit and banking, economic growth and stability, use of limited resources, characteristics of different economic systems and institutions, taxation and budgeting, labor management relations, and sales. The students will become familiar with the major functions of banks and other financial intermediaries, central banking by the Federal Reserve System, and modern trends in the finance industry. The students are also introduced to credit functions, principles of credit risk evaluation, loan creation, debt collection, and stocks and bonds.

INTRO TO BUSINESS 1A (Must Be Taken in Sequence)

Grades 9-12

Intro to Business: Business Technology is an Introduction to Business that will develop the basics used in other Business Department classes. Areas to be covered are: Business Organization, Entrepreneurship and Small Business Management, Management and Leadership, Human Resources, Culture and Diversity. Students will also enhance their business skills using Microsoft Word, Excel and PowerPoint, which can be applied to business settings or for personal use. The varied skills learned in this class will benefit students whether they attend college or move directly into the workforce.

INTRO TO BUSINESS 1B (Must Be Taken in Sequence)

Grades 9-12

This course includes self-awareness activities and standardized assessments that focus on the areas of personality, interests, skills, and values. In addition, this course will explore researching career paths, market research, planning, goal setting and decision-making. Students will leave with a better understanding of themselves, career paths, and our current job market.

INTRODUCTION TO PROGRAMMING

Grades 9-12

Prerequisite: Completion of Algebra 1A & Algebra 1B

This course meets the MMC requirement for a Senior year math credit if taken while a Senior

This module-based course is designed for students interested in computer science. Students will be introduced to the Python and Java programming languages, along with some robot coding. Students will learn first-hand about syntax, variables, arithmetic expressions, error-handling, and more.

MARKETING 1A and 1B

Grades 10-12

Successful completion of Marketing 1A and 1B will satisfy the State required Economics credit for graduation. College credit may be granted at Lansing Community College, Davenport and Northwood Universities for students completing Marketing 1A and 1B.

This is a powerful introductory course in the field of Business. Students will learn the foundations of Marketing related to economics, business, marketing, and human resource development or in other terms: product, price, place, and promotion. Skills will be developed and refined by students related to Marketing functions such as the "how-to's" of selling, promotion, distribution, risk management, pricing, purchasing, marketing management, product/service planning and financing. Upon completion of these courses in the Marketing program the student is eligible to participate in the Marketing 1C, 2A, 2B and 2C (School Store) courses.

MARKETING 1C – Introduction to School Store

Grades 10-12

(This course is subject to interest and staffing availability.)

This course will introduce students to working in the school store. Students will focus on the sales process and pricing of products. Students will begin training on the cash register and Point of Sale system and will be trained in all areas of the school store in preparation for Marketing 2A, 2B and 2C.

MARKETING 2A, 2B, 2C – School Store

Grades 10-12

Prerequisites: Marketing I, submit an application, interview with store managers and teacher, requires final approval from teacher.

Any combination of two of the three courses meets the State of Michigan's definition of a senior year math experience. (Marketing 2C – This course is subject to interest and staffing availability.)

College credit may be granted for courses.

This course builds on the skills that students have learned in Marketing 1A, 1B and 1C. This is an opportunity to apply the skills of marketing functions in a school store experience. Functions such as management, supervision, inventories, handling money/cash registers, forecasting, purchasing, ordering and pricing are skills used in entry-level business management.

VIDEO PRODUCTION

Grades 10-12

Prerequisite: Journalism and teacher signature.

Enter the fascinating world of video production. In this course you will learn to shoot video, add music, special effects, transitions and other captivating features to your footage. In addition to the editing skills you will learn, you will also be enhancing your writing and public speaking skills. This course will also teach you skills in time management and teamwork as you work together to complete the GLHS Video News- Comet TV, on time. This course, though fun, is demanding and may require time after school and time at home. This class may be taken more than once.

WEB DESIGN

Grades 10-12

This course provides students with a great introduction to coding. Students will learn HTML5 and CSS3 programming languages and use them to create basic web pages, including a personal web page. This is a project-oriented class.

Grand Ledge Public Schools
HIGH SCHOOL ENGLISH PROGRAM

Michigan Merit Curriculum credits of: English 9 A & B, English 10 A & B, English 11 A & B or American Studies, and English 12 A & B or British Literature A & B are required for graduation.

ENGLISH 9A – Critical Reading Skills

Grade 9

This is the first of the core English classes that students need to take in order to graduate. This is a skills-based class that emphasizes 21st Century Global Economy Skills within the framework of English Language text analysis, deconstruction, and comprehension. Students will learn basic annotation, metacognitive reading skills, and formal discussion skills. Both fiction and non-fiction will be utilized to frame the critical reading skills.

ENGLISH 9B – Critical Writing Skills

Grade 9

Prerequisite: Successful completion of English 9A

This is the complimentary class to English 9A. Skills learned in the prerequisite class will be continued, but applied in the context of learning to be an effective argumentative writer.

ENGLISH 10A

Accelerated 9 or Grade 10

Prerequisites: Successful completion of English 9B

English 10B is a survey class that incorporates diverse aspects of the Language Arts curriculum. It expands on the information and skills learned in English 9 A & B. An increased sophisticated analysis of literature will be emphasized, focusing on figurative language, thematic connections, and character development. Expository writing will be of primary focus. Included will be grammar, reading, and writing strategies intended to help students with the MME.

ENGLISH 10B

Accelerated 9 or Grade 10

Prerequisites: Successful completion of English 10A

English 10B is a survey class that incorporates diverse aspects of the Language Arts curriculum. It expands on the information and skills learned in English 9A&B and English 10A. A more sophisticated analysis of literature will be emphasized, focusing on figurative language, thematic connections, and character development. Argumentative techniques and research methods will be used to write a research paper. Technology will be utilized to develop writing and presentation skills. Included will be grammar, reading, and writing strategies intended to help students with the MME.

ENGLISH 11A

Accelerated 10 or Grade 11

Prerequisites: Successful completion of English 10B

English 11A is a mandatory class for all students who have successfully completed English 10A & B. English 11A will focus on literature from 1650 to the early 1900's. Students will discover themes presented by American authors, examine how literature changes over time, understand how literature is utilized to achieve goals and influence people's lives, and comprehend the components that make up literature. Writing is also an integral part of the curriculum. Units of study may include the Revolutionary period, Romanticism, Realism, and Women's studies.

ENGLISH 11B

Accelerated 10 or Grade 11

Prerequisite: Successful completion of English 11A

English 11B is a mandatory class for all students who have successfully completed English 10 A & B. English 11B must be taken after successful completion of English 11A. English 11B will focus on literature from the early 1900's to modern day. Students will discover themes presented by American authors, examine how literature changes over time, understand how literature is utilized to achieve goals and influence people's lives, and comprehend the components that make up literature. Writing is also an integral part of the curriculum. Units of study may include Realism, Modernism, Postmodernism, and Women's studies.

AFRICAN-AMERICAN STUDIES A

Accelerated 10 or Grades 11-12

Prerequisite: Successful completion of English 10B.

A two-hour block class consisting of English 11A, English 12 A and U.S. History A (with a focus from the African-American perspective) therefore 2 MMC credits-1 English and 1 U.S. History OR it can be 1 English credit and 1 Socials Studies elective credit if a student has previously earned a U.S. History credit. Students may take this class only ONCE to cover their English 11, English 12, U.S. History or Social Studies requirements.

African-American Studies is an interdisciplinary course that combines African-American Literature and African-American history. This class allows students to investigate African-American culture, values, literary trends, and historical events through the use of novels, short stories, plays, essays, film, music, and primary sources. This course is a thematic course in which we will look at American history and literature through the African American lens, with a focus on social justice issues.

African-American Studies A will focus on the period of 1619-through WWI.

AFRICAN-AMERICAN STUDIES B

Accelerated 10 or Grades 11-12

Prerequisite: Successful completion of African-American Studies A

A two-hour block class comprised of English 11B, English 12B and U.S. History B (with a focus from the African-American perspective) therefore 2 MMC credits-1 English and 1 U.S. History OR it can be 1 English credit and 1 Social Studies credit if a student had previously earned a 9th grade U.S. History credit. Students may take this class only ONCE to cover their English 11, English 12, U.S. History or Social Studies requirements.

African-American Studies is an interdisciplinary course that combines African-American Literature and African-American history. This class allows students to investigate African-American culture, values, literary trends, and historical events through the use of novels, short stories, plays, essays, film, music, and primary sources. This course is a thematic course in which we will look at American history and literature through the African-American lens, with a focus on social justice issues.

African-American Studies A will focus on the period of 1920s-present day.

ENGLISH 12A

Grade 12

Prerequisites: Successful completion of English 11B, American Studies B, or AP Language

English 12A is a senior level English course. English 12A will focus on contemporary global literature dealing with conflicts that arise when a person's cultural heritage attempts to find a place in American society. Students will specifically examine the struggles between the values of multiple cultures. Students will discover themes that examine cultural struggles, conflicts, and reconciliation of cultural beliefs. Readings could include a variety of short stories, novels, articles and poetry influenced by perspectives within the United States.

ENGLISH 12B

Grade 12

Prerequisite: Successful completion of English 12A

English 12B is a senior level English course. English 12B will focus on contemporary global literature. Students will discover themes presented by global authors living and experiencing life in other countries. Students will explore cultural norms and experiences that are both similar and different to their own life experiences. Students will gain a greater understanding of the global community and their place in it through discussion, reflection, and various readings and writings. Readings could include a variety of short stories, novels, articles and poetry influenced by countries worldwide.

BRITISH COMPOSITION & LITERATURE A

Accelerated 11 or Grade 12

Prerequisites: Completion of English 10A & B, English 11A & B, or American Studies A & B.

This survey course examines some of the earliest known literature of the Western World. This includes fifth century Anglo-Saxon, Medieval, Renaissance and eighteenth Century/Restoration selections. You will be exploring the history that underlies these pieces. The reading list includes a range of authors and genres such as the epic of *Beowulf*, the Arthurian legends, the incomparable drama of Shakespeare and Milton's powerful masterpiece, *Paradise Lost*. Your study of these works will provide you with a strong background for college humanities classes and will add to the knowledge base you will need for future understanding of Western literature. Course assessments emphasize critical thinking, discussion, analysis, collaboration and writing.

BRITISH COMPOSITION & LITERATURE B

Accelerated 11 or Grade 12

Prerequisites: Completion of British Composition & Literature A

This course will survey literature of Great Britain from the 18th, 19th, and 20th and 21st centuries. You will be exploring the history that underlies these works. This course includes a range of authors and genres such as Mary Shelley's *Frankenstein*, a Jane Austen novel, *Jane Eyre* by Charlotte Bronte and *Mrs. Dalloway* by Virginia Woolf. In addition, you will explore Romantic, Victorian and modern poetry. Finally, you will survey a variety of modern authors to emphasize the cultural diversity of English writers today. Your study of these works will provide you with a strong background for college humanities classes and will add to the knowledge base you will need for future understanding of Western literature. Course assessments emphasize critical thinking, discussion, analysis, collaboration and writing.

ENGLISH ELECTIVES

COLLEGE WRITING

Grades 10-12

Prerequisites: Successful completion of English 10A & B, OR an English teacher recommendation.

This course is designed for the college-bound student who wishes to become familiar with current writing formats and college-level expectations. Students may expect to improve their critical thinking skills as they research, analyze, and write logically about issues pertinent to college-bound students and our world. Students will be required to complete several lengthy and polished essays, as well as a number of shorter compositions. Standard English, including grammatically correct sentence structures and college-level word choices, will be required for all compositions. Students must use correct citation methods (MLA) and may be asked to provide evidence of a structured writing process.

CREATIVE WRITING A – FICTION

Grades 11-12

Prerequisites: Successful completion of English 10A & B and Junior or Senior level status

This course is designed to improve your fiction writing abilities by guiding you through the process of writing a piece, or pieces of fiction. Basic literary elements, such as character, plot, dialogue, setting, genre, and audience will be examined. Class instruction will be a writer's workshop approach, which includes individual consultation, group critiques, and modeling of existing literature. Students will produce one extended piece of writing or several smaller pieces.

CREATIVE WRITING B – FICTION

Grades 11-12

Prerequisite: Successful completion of Creative Writing A and teacher recommendation from Creative Writing A

This course is designed to advance the learning and product from Creative Writing A. More advanced literary elements, such as rhetorical devices, pacing, symbolism, and critical lenses will be examined. The editing process will also be introduced. Class instruction will be a writer's workshop approach, which includes individual consultation, group critiques, and modeling of existing literature. Students will produce one extended piece of writing, or several smaller pieces. Students will continue to work on their products(s) from Creative Writing A.

ENGLISH AS A SECOND LANGUAGE

Grades 9-12

Prerequisite: Non-native speakers of English and those who speak a language other than English in the home.

This course is designed to enhance and foster individual academic, social, and cultural achievement in English. The class will also serve as support of academic achievement in required and elective classes. The main emphasis of this class will be acquiring proficiency in English reading, writing, speaking and listening. The instructional method of *learning by doing* will be emphasized during this course. Content will be presented in small manageable lessons that teach concepts and build language skills. All learning will be reinforced through consistent practice, review, and application.

ELL AMERICAN ENGLISH AND CULTURE

Grades 9-12

Prerequisite: Must be enrolled in the ESL Program

This course is designed to enhance and foster individual academic achievement in the English language. The class will serve as academic support for students in their required and elective classes.

JOURNALISM A

Grades 9-12

Journalism A is an English elective where students learn the basics of journalism and mass communication. In Journalism A, students will complete various projects in print and digital media including news writing, photography, yearbook and magazine design, podcasting, and more. Students will also learn the basics of journalism law, media, and analysis.

JOURNALISM B

Grades 9-12

Prerequisite: Journalism A

Journalism B is the second half of the introduction to journalism course. It is an English elective and/or computer credit. In Journalism B, students expand on the basics learned in Journalism A. Students will also learn Adobe Suite more in-depth, with a focus on Adobe InDesign and Photoshop. Students will be completing projects that include digital design, digital media, business and careers in journalism, and compiling a portfolio. Journalists who do well in both Journalism A and B will receive top consideration to be on the school newspaper, broadcast, and/or yearbook staff.

LGBTQIA+ LITERATURE AND HISTORY

Grades Accelerated 10, 11-12

LGBTQIA+ Literature and History is an elective English course. This class will focus on LGBTQIA+ texts, people, history, and analysis from the ancient world into the modern day. The course will explore these topics in a global, regional, and local context as it pertains to different cultures, themes, and more. Students will discover themes that relate, examine, and analyze the LGBTQIA+ community, topics, conflicts, history, and culture. Readings will include short stories, poetry, novels, articles, and drama. Writing will also be a routine part of the course, including analytical essays, reflective journals and responses, research and more.

LITERARY FILM STUDIES

Grades 10-12

Prerequisite: B- or better in English 9 and English 10

This class teaches students how to appreciate, analyze and interpret themes, characters, story structure, and narrative techniques through the medium of film. That's a fancy way of saying "we won't just be eating popcorn and watching a bunch of movies." So, if you signed up for "an easy elective" – this is the part to warn you that you're in the wrong class. Will we be watching movies? Most definitely. But that's just the half of it. In this course, you will:

Read: Read Screenplays, Analyze Shots, Research Film History, Study and Critique Directors

Write: Retool and rework existing scripts, compose story treatments, Pitch ideas in a group setting, Revise and improve dialog

Create: Compose action sequences, draft your own screenplays, Learn filmmaking techniques, Film your own original works

So, buckle up – it's going to be a bumpy ride. Roads? Where we're going... we don't need roads.

NEWSPAPER STAFF

Grades 9-12

Prerequisites: Journalism A and B (earning a B or higher in both) and approval of the Newspaper advisor. To sign up for multiple trimesters, students must receive a B or higher once on Newspaper staff. Applications must be turned in a trimester in advance.

Newspaper is one of three advanced journalism courses offered at GLHS. In this class students will publish GLHS' newspaper The Comets' Tale. All students are required to help fundraise, write, design, take photos etc. to ensure the newspaper is printed each month.

SPEECH 1

Grades 9-12

This course is a recommended choice for all career paths. Instruction will be provided on how to plan, organize (outline), and present speeches in each of the three common public speaking formats; informative, special occasion, and persuasive. A student's ability to speak confidently in public will be improved through self-reflection and participation in a wide variety of public speaking experiences. Speeches may include but are not limited to

personal narrative, process, expository, special occasion, persuasive, extemporaneous, one-on-one interviews, and a mock job interview. In addition, this course covers the basics of intrapersonal and interpersonal communication.

SPEECH 2

Grades 9-12

Prerequisite: Speech I

This course builds on the skill sets achieved in the Speech 1 course. Students will learn to use more complex structures and presentations will encourage the use of more advanced techniques of public speaking. A special emphasis will be placed on developing one's personal speaking style. Some of the speeches included are Television and Radio Broadcasting, a Sales Presentation, and weekly Anecdotes. A basic instruction on Kinesics (non-verbal cues) will also be included, along with an introduction to competition-style oral interpretation and Debate. Note: Each student must complete ALL assigned speeches to earn credit for the course.

YEARBOOK (Annual Yearbook Staff)

Prerequisites: Approval of the Yearbook Advisor after submitting an application. Applications must be turned in a trimester in advance. Preference is given to students who earn a B or higher in Journalism A and Journalism B.

Yearbook is one of three advanced journalism courses offered at GLHS. In this class, students will publish the annual Grand Ledge High School Yearbook, The Ledge. All students are required to help fundraise, write, design, take photos, market and advertise, and more to ensure the yearbook is published on time and is a quality product for the community. Students are expected to cover events during and outside of school hours. It is recommended, but not required, to take Yearbook all three trimesters.

AP ENGLISH OPTIONS

ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION A, B & C

Grade 11-12

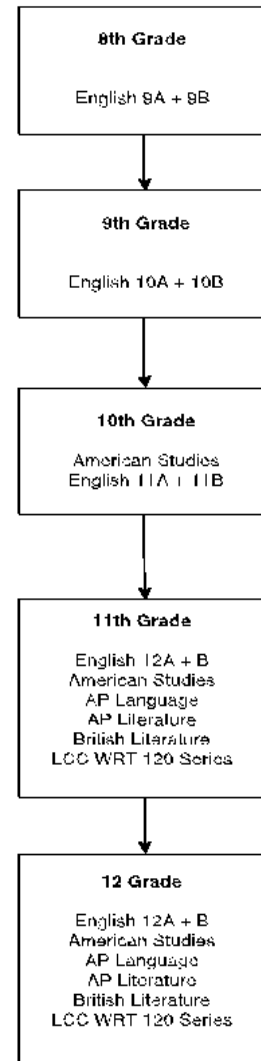
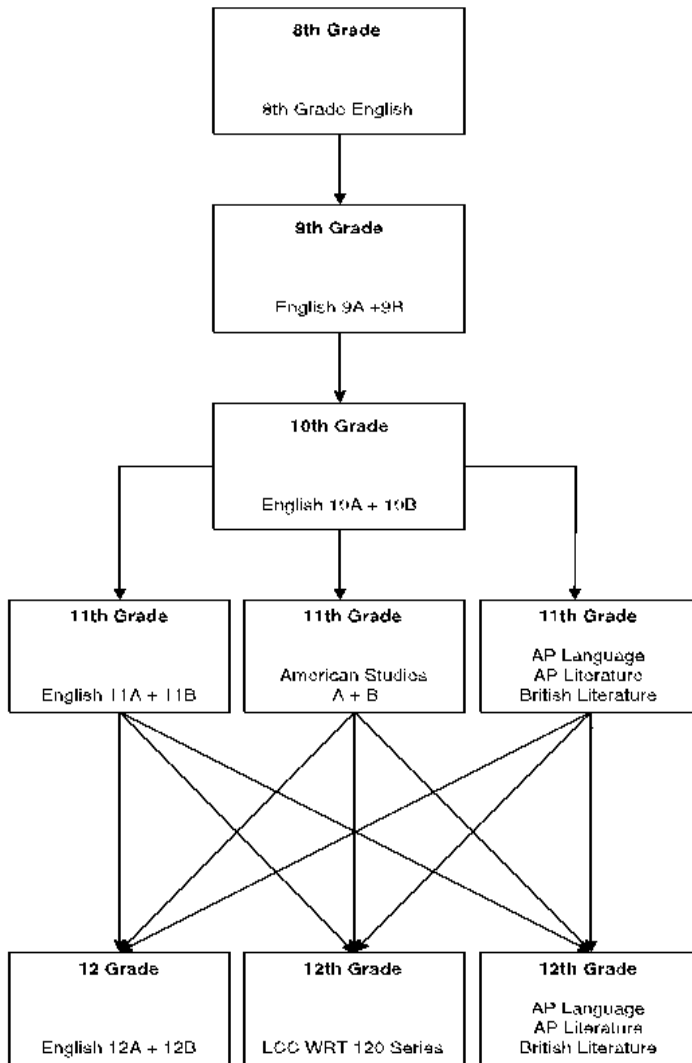
This year-long AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Primary course goals are to foster student's love of learning, reading, writing and philosophical exploration as well as to prepare students to take the College Board exam. This course is designed to reflect the content and expectations of a 1st year college level English class. Upon completion of this class and successful completion of the AP Literature test, a college may elect to provide credit or accelerated placement due to these factors.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION A, B & C

Grades 11-12

This course is designed to reflect the content and expectations of a 1st year college level English class. Upon completion of this class and successful completion of the AP Language test, a college may elect to provide credit, or accelerated placement due to these factors. Students in this course will analyze and interpret samples of good writing, identifying and explaining an author's use of rhetorical strategies and techniques; apply effective strategies and techniques in their own writing; create and sustain arguments based on readings, research and/or personal experience; and write for a variety of purposes.

GLHS English Course Pathways



<p style="text-align: center;">Grand Ledge Public Schools HIGH SCHOOL FAMILY & CONSUMER SCIENCE/PHYSICAL EDUCATION PROGRAM</p>

Michigan Merit credits of Personal Health & Wellness and PE a 9th grade students are required for graduation. This course will be available for 10th graders new to Grand Ledge High School.

PERSONAL HEALTH AND WELLNESS-HEALTH (PHW-Health)

Grade 9

****THIS IS A REQUIRED COURSE FOR GRADUATION****

It is also available for 10th grade students new to the district. This is a comprehensive health curriculum emphasizing how our choices impact our health, now and in the future. The goal of the course is to help students develop life-long physical, mental, emotional, and social health skills. Topics covered are nutrition, stress management, conflict resolution and violence prevention, alcohol, tobacco and other drugs, healthy relationships, being fit, exercising and life-long sports. With the emphasis on decision-making and personal responsibility, PHW is supportive of all the career pathway strands.

PERSONAL HEALTH & WELLNESS-PHYSICAL EDUCATION (PHW-PE)

Grade 9

****THIS IS A REQUIRED COURSE FOR GRADUATION****

This course is required for ninth grade students. It is also available for 10th, 11th and 12th grade students new to the district. This is a comprehensive health curriculum emphasizing life-long physical, emotional, mental and social health skills. The goal of this course is to expose students to life-long physical activity and fitness as it pertains to living a healthy lifestyle. Topics covered include how to make healthy choices, components of health, being fit, diet and exercise, building and maintaining a healthy exercise program and First Aid and CPR. PHW is supportive of all career pathway strands. **This is a prerequisite for Personal Conditioning and for Team Sports 11-12**

FAMILY & CONSUMER SCIENCE/PHYSICAL EDUCATION ELECTIVES

11TH AND 12TH GRADE HEALTH

Grades 11-12

This class is designed for students who need to repeat PHW/Health to earn graduation credit, as well as for students who move into the district as juniors or seniors and need to earn their PHW-Health credit for graduation. It is not a scheduling alternative for PHW-Health.

This course is designed for the individual to maximize personal health by accepting responsibility for personal health decisions and practices. The Centers for Disease Control and Prevention have identified the health risk behavior areas that have the greatest effect on the short- and long-term health of young people. This course will allow students to address these areas in their own life, and will also support students in developing skills to manage their health throughout their lifetime. Topics covered are: Personal Health and Wellness, Consumer Wellness, Social and Emotional Health, Nutrition, Alcohol, Tobacco and other drugs, HIV prevention and Sexuality Education.

FAMILY IN SOCIETY

Grade 10-12

Students will spend most of their lives in a family unit, of which there are many variations. The family they live in now has shaped their personal development this far. The family formed when they become adults will be a major influence and focus the rest of their lives. Changing life cycles present the family with many responsibilities and concerns. The skills developed in this course will offer an understanding of ways to strengthen family relationships from birth to death.

FINANCIAL AND LIFE SKILLS

Grades 11-12

This course is a combination of previous courses: Consumer Ed and Jr. Sr. Survival Skills

This course meets the MMC requirement for a Senior year math credit if taken while a Senior

This course is designed to incorporate personal finance math concepts with real-life, hands-on situations. Students will develop skills in examining their consumer behavior, managing finances, becoming an informed consumer, purchasing necessities and big-ticket items, and examining their role in the marketplace. Students will also learn communication skills, career selection, interviewing skills, housing and roommate choices, money management, using credit, legal issues, etc.

NUTRITION EDUCATION

Grades 9-12

This is an introduction to our needs for foods, including the study of fitness, health and nutritional needs. Techniques of basic food preparation will take place one to two times a week. Units covered will include kitchen methods and measurements and basic cooking skills. There also will be specific instruction in nutrition and the science of foods. Personal food needs for maximum health will be studied.

PARENTHOOD EDUCATION/CHILD DEVELOPMENT A

Grades 10-12

This course meets the MMC requirement for Fine, Performing & Applied Arts.

This class is for students who are considering a career pathway that involves working with children, or think they may want to be parents. Parent Education covers choices in becoming a parent, birth control, reproduction, and stages of pregnancy, as well as influences on fetal development, birth defects and delivery of the infant. Students who meet specific criteria can earn LCC credit.

PARENTHOOD EDUCATION/CHILD DEVELOPMENT B

Grades 10-12

This course meets the MMC requirement for Fine, Performing & Applied Arts.

Child Development examines the physical, social, emotional, and intellectual development for children from birth until the age of 5. A variety of experiences will be conducted to exhibit the information learned in the second half of the course. The curriculum will also be enhanced by the use of guest speakers and videos. Students who meet specific criteria can earn LCC credit.

PERSONAL CONDITIONING Women (Only 5th hour)

Grades 10-12

Prerequisites: PHW-PE

Students wishing to take this class should be able to swim and have a strong desire to improve their physical well-being. The course is designed to develop strength, power, speed, quickness, flexibility, coordination, endurance, and anaerobic fitness through the use of required core weight training exercises along with additional auxiliary exercises. In addition, heavy rope jumping, stretching, running, swimming and tumbling may be used to augment the weight training areas. Lifting techniques, workout organization and weight room safety are also emphasized.

PERSONAL CONDITIONING (Co-Ed)

Grades 10-12

Prerequisites: PHW-PE

Students wishing to take this class should be able to swim and have a strong desire to improve their physical well-being. The course is designed to develop strength, power, speed, quickness, flexibility, coordination, endurance, and anaerobic fitness through the use of required core weight training exercises along with additional auxiliary exercises. In addition, heavy rope jumping, stretching, running, swimming and tumbling may be used to augment the weight training areas. Lifting techniques, workout organization and weight room safety are also emphasized.

TEAM SPORTS 9 & 10 (A, B & C)

Grades 9-10

This is a one-trimester program with an emphasis on team sports techniques, sportsmanship, and related skills needed to manage and train for team and leisure sports activities. Health and fitness will focus on the following competitive sports: Units include tennis, flag football, soccer, basketball, volleyball, soft cross, and softball.

TEAM SPORTS 11 & 12

Grades 11-12

Prerequisites: PHW/PE

This is a one-trimester program with an emphasis on advanced team sports techniques, sportsmanship, and related skills needed to manage and train for team and leisure sports activities. Health and fitness will focus on the following competitive sports: Units include tennis, flag football, soccer, basketball, volleyball, soft cross, and softball.

<p style="text-align: center;">Grand Ledge Public Schools HIGH SCHOOL WORLD LANGUAGE PROGRAM</p>
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FRENCH 1A*Grades 9-12***Prerequisite: None**

Students will learn basic French so that they will be able to communicate with simple sentences by the end of the course. Students will learn grammar, vocabulary and pronunciation. They will also learn cultural information about French-speaking countries. This trimester focuses on school, family & food vocabulary and cultural concepts relating to that vocabulary. The grammatical concepts include the present tense of regular -er verbs and some irregular verbs. Students will also have the opportunity to learn songs, perform skits, and listen to French music.

FRENCH 1B*Grades 9-12***Prerequisite: Successful completion of French 1A**

Students will learn basic French so that they will be able to communicate with simple sentences by the end of the course. Students will learn grammar, vocabulary and pronunciation. They will also learn cultural information about French-speaking countries. This trimester focuses on food, clothing, & sport/activities vocabulary and cultural concepts relating to that vocabulary. The grammatical concepts include the present tense of regular -ir & -re verbs and some irregular verbs. We will also begin to look at the past tense of regular verbs. Students will also have the opportunity to learn songs, perform skits, and listen to French music.

FRENCH 2A*Grades 9-12***Prerequisite: Successful completion of French 1B**

French 2 students will continue to learn the French language and will improve their French language skills by reading, speaking, listening, and writing. Students will learn about French education, arts, and music. This trimester focuses on vocabulary relating to weather, daily routines, cultural activities and health. The grammatical concepts include passé compose, reflexive verbs, object pronouns and commands.

FRENCH 2B*Grades 9-12***Prerequisite: Successful completion of French 2A**

Students will continue to learn the French language and will improve their French language skills by speaking, listening, reading and writing. This trimester focuses on vocabulary relating to telecommunications, travel, food and cooking, cars and driving, and medical problems. Grammatical concepts include the imperfect, future and conditional tenses.

FRENCH 3A*Grades 9-12***Prerequisite: Successful completion of French 2B**

Students will complete their study of the basic French grammar and continue to build communication skills. Students will read short stories and poetry and become acquainted with the great names of French literature. This trimester focuses on vocabulary relating to physical descriptions, daily routines and household chores. Grammatical concepts include reflexive and reciprocal verbs and the subjunctive tense. Cultural concepts include French modern art, French poetry and French history.

FRENCH 3B*Grades 9-12***Prerequisite: Successful completion of French 3A**

Students will complete their study of basic French grammar and continue to improve their communication skills. Students will read short stories and poetry in French and become acquainted with the great names in French literature. This trimester focuses on vocabulary relating to outdoor activities, shopping and travel. Grammatical concepts include passé compose and imperfect tenses, double object pronouns, and the future and conditional tenses. Cultural concepts include French history and music of the French-speaking world

FRENCH 4A*Grades 9-12***Prerequisite: Successful completion of French 3B**

In French 4A students will continue to develop their French grammar skills, but the emphasis of the class will be on communication. Students will have the opportunity to increase their skills in class discussions and conversations. This trimester focuses on vocabulary relating to hotels and health. Grammatical concepts include demonstrative and possessive pronouns, the subjunctive tense and the past subjunctive. Cultural concepts include French history, French cinema and modern France.

FRENCH 4B*Grade 9-12***Prerequisite: Successful completion of French 4A**

In French 4B students will continue to develop their French grammar skills, but the emphasis of the class will be on communication. Students will have the opportunity to increase their skills in class discussions and conversations. This trimester focuses on vocabulary relating to city life, personal relationships, college life and careers. Grammatical concepts include past conditional, pluperfect and subjunctive tenses, and relative pronouns.

FRENCH 5A*Grades 9-12***Prerequisite: Successful completion of French 4B**

This course is designed as a culmination of students' French studies in high school. At this point, they have already learned the structures necessary to communicate in French. In French 5, students review and refine those grammatical structures while learning new vocabulary to communicate in French on a variety of topics. French 5 emphasizes all aspects of language: listening, speaking, reading, writing and culture. This course is designed to prepare students to take either the French CLEP test or the AP French Language and Culture examination. French 5 is conducted exclusively in French.

FRENCH 5B*Grades 9-12***Prerequisite: Successful completion of French 5A**

This class is a continuation of French 5A. Students will be required to speak only French in the classroom.

FRENCH 5C*Grades 9-12***Prerequisite: Successful completion of French 5B**

This class is a continuation of French 5B. Students will be required to speak only French in the classroom.

GERMAN 1A*Grades 9-12***Prerequisite: None**

Students electing German 1 will be introduced to the language and culture of German-speaking countries. Students will learn to write and speak basic German while also experiencing cultural likes and differences. Listening, speaking, reading, comprehension, pronunciation and vocabulary will be stressed. Students will learn songs, perform skits and view cultural movies.

Vocabulary: Greetings, family, time, numbers

Grammar Concepts: Present tense conjugation of regular/irregular verbs, definite articles, nominative/accusative cases, formal/informal address, word order

GERMAN 1B*Grades 9-12***Prerequisite: German 1A**

The second trimester of German 1 will focus on improving the basic language skills learned in 1A, while learning new vocabulary, verbs and word order. The students will gain cultural experiences through writing skits based on culturally relevant topics. Listening, speaking, reading comprehension, and pronunciation will continue to be stressed.

Vocabulary: school, weather, geography, foods

Grammar Concepts: indefinite articles, modal auxiliaries, future tense

GERMAN 2A*Grades 9-12***Prerequisite: German 1A/B**

German 2 students will continue their learning of the German language through speaking, listening, reading and writing. The students will improve these skills and increase their understanding and appreciation of German culture. Students will have the opportunity to learn about German contributions in the areas of art, music, literature and science.

Vocabulary: Clothing, colors, house, hobbies and activities, chores

Grammar Concepts: stem-change verbs, separable prefix verbs, possessive adjectives, accusative prepositions

GERMAN 2B*Grades 9-12***Prerequisite: German 2A**

Students enrolled in the second trimester of German 2 will continue to focus on speaking, listening, reading and writing. Students will expand their knowledge of the German culture based on topics such as eating, shopping, festivals, hobbies, and travel. Students will write skits, perform listening and speaking activities, and read culturally related texts.

Vocabulary: sports, body parts, travel, music

Grammar Concepts: Present Perfect (regular/irregular verbs), dative case

GERMAN 3A*Grades 9-12***Prerequisite: German 2A/B**

The emphasis of this class will be to increase students' speaking, writing, and reading skills. Much time will be devoted to speaking the language in class discussions, conversations and skits. Students will be able to view some German movies in order to improve their listening and comprehension skills.

Vocabulary: airport facilities, youth hostels, camping, weather

Grammar Concepts: comparative and superlative forms, reflexive verbs, imperfect tense

GERMAN 3B*Grades 9-12***Prerequisite: German 3A**

The second trimester of German 2 will continue students' practice in the areas of speaking, listening, reading and writing. Students will improve in these areas through daily listening and speaking activities, writing skits, and reading culturally relevant texts. Students will work with grammar concepts through the use of texts and grammar exercises.

Vocabulary: animals, farm, household chores, fruits and vegetables, eating at a restaurant, department store, grocery shopping

Grammar Concepts: past tense of modal verbs, infinitives as nouns, genitive case, additional der-words, demonstrative pronouns

GERMAN 4A*Grades 9-12***Prerequisite: German 3A/B**

Fourth year students will continue their knowledge of German through speaking, writing, reading and listening activities. Various texts will be read and discussed, including articles about various current events.

Vocabulary: hobbies and outdoor activities, German festivals and holidays, post office, computer/internet

Grammar Concepts: adjective endings, prepositions (dative/accusative), da/wo-compounds

GERMAN 4B*Grades 9-12***Prerequisite: German 4A**

Students will study grammar concepts from previous levels at a deeper level. Students will polish up their speaking, listening, reading and writing skills. Various texts will be read and discussed, including articles about various current events.

Vocabulary: occupations, ailments, parts of a car, traffic, youth-oriented concerns, environment

Grammar Concepts: past perfect tense, verbs with accusative/dative prepositions, conjunctions

GERMAN 5A

Grades 9-12

Prerequisite: German 4A/B

This course is designed to extend and reinforce the world language skills learned in German 1 through 4 and continues to prepare students for Advanced Placement (AP) or CLEP exams. Classroom instruction is designed to reinforce the ability to communicate in German by involving students in reading, writing, listening and speaking tasks. Students will be exposed to different pieces of German literature and other cultural works. They will also gain an understanding of German historical periods and figures.

Vocabulary: world geography, train travel, city sights, city traffic, family tree, bicycle parts

Grammar Concepts: conjunctions, expressions for times of day, verbs as nouns, *als/wenn/wann*, relative pronouns, present subjunctive II

GERMAN 5B

Grades 9-12

Prerequisite: German 5A

This class is a continuation of German 5A. Students will be required to speak only German in the classroom.

Vocabulary: board games, parts of a car, circumstances for being formal/informal, travel experiences (hiking), class reunion, job search, application in interview.

Grammar Concepts: imperative, verb-preposition combinations, relative pronouns after prepositions, *if/then* clauses Comparative and superlative (adjectives/adverbs), *Da*-compounds, Modals: present perfect, double Infinitives, narrative past, present/past subjunctive, *wann/ob*

German 5C

Grades 9-12

Prerequisite: German 5B

This class is a continuation of German 5B. Students will be required to speak only German in the classroom.

Vocabulary: different generations, transportation system and various types of tickets, health and nutrition, sports gear, climate and weather

Grammar Concepts: Passive: present tense/narrative past with modals, relative pronouns: *was* and *wo*

SPANISH 1A

Grades 9-12

Prerequisite: None. Text: *¡Qué Chevere! Level 1*

Students that plan to continue their study of Spanish beyond the second year should select this course.

Students will begin to learn to speak, read and write the second language of the United States. Emphasis will be placed on communication. Major topics to be covered include present tense verbs, geography, Spanish in the United States, native groups of people. Students will also study vocabulary units related to descriptions of people, school subjects, shopping (clothing and school supplies) and times of the year. Students will learn this material through listening, writing, speaking and reading activities. Students will also learn about the cultures of the Spanish-speaking world through video clips, discussions and readings. Upon successful completion of this course students will advance to Spanish 1B.

SPANISH 1B

Grades 9-12

Prerequisite: Successful Completion of Spanish 1A Text: *¡Qué Chevere! Level 1*

Students that plan to continue their study of Spanish beyond the second year should select this course.

Students will continue learning how to speak, read and write in Spanish. Emphasis will be placed on communication. Major vocabulary units to be covered include family, sports, food, health and medicine. Specific grammar units to be covered include present tense verbs, the difference between *ser* and *estar*, and stem changing verbs. Students will learn about the cultures of Spanish-speaking countries through video clips, podcasts, discussions and readings. Upon successful completion of this course students will advance to Spanish 2A.

SPANISH 2A

Grades 9-12

Prerequisite: Successful Completion of Spanish 1B *Text:* ¡Qué Chevere! Level 1

Students that plan to continue their study of Spanish beyond the second year should select this course.

In this course students will increase their ability to speak Spanish. They will increase their knowledge of the language in order to express their ideas, needs, wants and reactions in Spanish, both orally and in writing. Students will learn more about the Spanish-speaking world: the people, their ways of life, and their rich cultural heritage. Students will increase their listening, speaking, reading and writing abilities through practice and repetition. Grammar topics include review of the present tense and begin learning the preterite past tense. Upon successful completion of this course students will advance to Spanish 2B.

SPANISH 2B

Grades 9-12

Prerequisite: Successful Completion of Spanish 2A *Text:* ¡Qué Chevere! Level 2

Students that plan to continue their study of Spanish beyond the second year should select this course.

In this course students will increase their ability to speak Spanish. They will increase their knowledge of the language in order to express their ideas, needs, wants and reactions in Spanish, both orally and in writing. Students will learn more about the Spanish speaking world: the people, their ways of life, and their rich cultural heritage. Students will increase their listening, speaking, reading and writing abilities through practice and repetition. Grammar topics include continuation of the preterite past tense and imperfect past tense. Upon successful completion of this course students will advance to Spanish 3A.

SPANISH 3A & 3B

Grades 9-12

Prerequisite: Successful Completion of Spanish 2B *Text:* ¡Qué Chévere!

Students will further develop the ability to effectively communicate in Spanish as well as gain insight into the people and cultures of Spanish-speaking countries. Spanish 3 builds on the skills attained in Spanish 2. This continued study of Spanish includes an increased emphasis on the development of speaking, reading, writing, and listening comprehension skills. Students will take part in class discussions, presentations and skits in Spanish. Topics in Spanish grammar, vocabulary, literature and culture will be explored.

Key Concepts: Review of regular and irregular present tense verbs, reflexive verb uses, affirmative and negative words, commands, present perfect tense, use of past tenses, introduction to subjunctive.

SPANISH 4A & 4B

Grades 9-12

Prerequisite: Successful completion of Spanish 3B *Text:* ¡Qué Chévere!

Students will further develop the ability to communicate in Spanish as well as gain insight into the people and cultures of Spanish-speaking countries. Spanish 4A builds on the skills attained in Spanish 3. Students begin to fine tune grammar concepts and focus on conversational abilities. Daily speaking, reading, writing, and listening guide students towards fluency. Students will take part in class discussions, presentations and skits in Spanish. New and reviewed topics in Spanish grammar, vocabulary, literature and culture will be explored. Much of the class will be conducted in Spanish.

Key Concepts: Review of past tenses, formal commands, subjunctive, perfect tenses, pronoun use, hypothetical situations, and a variety of thematic vocabulary topics.

SPANISH 5A, 5B & 5C

Grades 11-12

Prerequisite: Completion of Spanish 4 (Students passing with a solid “A” (93% or better) is strongly recommended.

Students work towards fluency in Spanish as well as gain deeper insight into the people and cultures of Spanish-speaking countries. Spanish 5 students fine-tune skills attained in Spanish 4. Students review previously learned grammar rules and focus on using them effectively in conversation and writing. Daily speaking, reading, writing, and listening activities guide students towards fluency. Students will take part in class discussions, presentations and skits in Spanish. New and reviewed topics in Spanish grammar, vocabulary, literature and culture will be explored. A majority of the class will be conducted in Spanish and students will contribute their own thoughts and ideas in Spanish.

<p style="text-align: center;">Grand Ledge Public Schools HIGH SCHOOL MATH PROGRAM</p>
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Michigan Merit Curriculum credits of Algebra 1A & 1B, Geometry A & B, Algebra 2A, 2B & 2C (or Honors Algebra 2A, 2B & 2C) are required. There is also a requirement of 2 math related courses in the senior year, either from the math courses listed below and/or from a math experience course such as Accounting, Business Finance, or any CTE course.

ALGEBRA 1A

Grade 9

Prerequisites: None

This is the first part of a two-trimester foundation course, which provides a formal development of algebraic skills to prepare students for all subsequent mathematics courses. Topics of the course include the properties of real numbers, equations and inequalities, functions and their graphs, and problem solving. The concept of function is emphasized throughout the course. A scientific calculator or a graphing calculator (TI 83 or TI 84) is highly recommended.

Key Concepts: Quantities and Modeling, Understanding Functions, Linear Functions, Equations, Inequalities.

Next Course in the Sequence: Algebra 1B

ALGEBRA 1B

Grade 9

Prerequisites: Successful completion of Algebra 1A

This is the second part of a two-trimester foundation course, which provides a formal development of algebraic skills to prepare students for all subsequent mathematics courses. Topics of the course include simplifying expressions, polynomials, and families of functions. A scientific calculator or a graphing calculator (TI 83 or TI 84) is highly recommended.

Key Concepts: Linear Systems, Exponential Relationships, Polynomial Operations, Quadratic Functions.

Next Course in the Sequence: Geometry A or Elementary Statistics

ALGEBRA 1C

Grades 9-10

Algebra 1C will serve as a way for struggling Algebra 1 students to gain a better understanding of the essential learnings from 1A and Algebra 1B by providing them with the additional time and practice necessary to master these concepts so they have the requisite skills to be successful in later required math courses.

Key Concepts: Linear functions and equations, systems of linear equations, polynomial operations, quadratic functions and equations

Next Course in the Sequence: Geometry A

GEOMETRY A

Grades 9-11

Prerequisite: Successful completion of Algebra 1B

Geometry A is a course where students will learn how to transform shapes through translations, reflections, rotations and look at symmetry. Students will explore what makes shapes congruent, various properties of lines & angles, and an in depth look at triangles and all their properties. This course will also cover properties of quadrilaterals and look at coordinate proofs. A scientific calculator or a graphing calculator (TI 83 or TI 84) is highly recommended.

Key Concepts: Transformations and Congruence, Lines, Angles, and Triangles, Quadrilaterals and Coordinate Proof.

Next Course in the Sequence: Geometry B

GEOMETRY B

Grades 9-11

Prerequisite: Successful completion of Geometry A

Geometry B is a course where students will learn about dilations, similarity, and proportions. Students will explore the trig identities of sine, cosine and tangent, and their various laws. This course will also cover circles and their various properties, and look at finding different measurements of 2D and 3D shapes. A scientific calculator or a graphing calculator (TI 83 or TI 84) is highly recommended.

Key Concepts: Similarity, Trigonometry, Properties of Circles, Measurement and Modeling in Two and Three Dimensions

Next Course in the Sequence: Algebra 2A, Honors Algebra 2A, or Elementary Statistics

ALGEBRA 2A

Grades 9-12

Prerequisite: Successful completion of Geometry B

This is the first part of a three-trimester course. Algebra 2 is an adventure into the world of advanced mathematics. It includes investigations into linear equations and systems, quadratics, higher degree polynomials, and much more. A graphing calculator (TI 83 or TI 84) is required.

Key Concepts: Functions, Quadratic Functions and Equations, Systems of Equations

Next Course in the Sequence: Algebra 2B, Applications of Functions

ALGEBRA 2B

Grades 9-12

Prerequisite: Successful completion of Algebra 2A

This is the second part of a three-trimester course. Algebra 2 is an adventure into the world of advanced mathematics. It includes investigations into linear equations and systems, quadratics, higher degree polynomials, and much more. A graphing calculator (TI 83 or TI 84) is required.

Key Concepts: Polynomials, Polynomial Equations, Rational Functions, Expressions, and Equations, Radical Functions, Expressions, and Equations.

Next Course in the Sequence: Algebra 2C, Application of Functions

ALGEBRA 2C

Grades 9-12

Prerequisite: Successful completion of Algebra 2B

This is the third part of a three-trimester course. Algebra 2 is an adventure into the world of advanced mathematics. It includes investigations into linear equations and systems, quadratics, higher degree polynomials, and much more. A graphing calculator (TI 83 or TI 84) is required.

Key Concepts: Exponential and Logarithmic Functions and Equations, Trigonometric Functions

Next Course in the Sequence: Applications of Functions, Pre-Calculus A, College Prep Math, Probability and Statistics, AP Statistics

HONORS ALGEBRA 2A

Grades 9-12

Prerequisite: Successful completion of Geometry B and Math Department recommendation. **It is strongly recommended that students have at least a B+ in all Algebra 1 and Geometry courses.**

Honors Algebra 2 is intended for students interested in higher level mathematics courses (Pre-Calculus, AP Calculus or AP Statistics) and is a three-trimester course with an emphasis on critical thinking and problem-solving. These higher-level skills are necessary for preparing for upper-level mathematics courses at the high school and college levels. Students who successfully complete this course will be more prepared for an in-depth study of other advanced mathematics courses. This course will include an in-depth study of the key concepts listed below with college and AP mathematics preparedness in mind. A graphing calculator (TI 83 or TI 84) is required.

Key Concepts: Exponents, Functions, Linear Graphs, Functions and System, Matrices, Sequences & Series, Explicit and Recursive Formulas

Next Course in the Sequence: Honors Algebra 2B, Algebra 2B

HONORS ALGEBRA 2B

Grades 9-12

Prerequisite: Successful completion of Honors Algebra 2A (or Algebra 2A with a teacher recommendation)

Algebra 2 is intended for students interested in higher level mathematics courses (Pre-Calculus, AP Calculus or AP Statistics) and is a three-trimester course with an emphasis on critical thinking and problem-solving. These higher-level skills are necessary for preparing for upper-level mathematics courses at the high school and college levels. Students who successfully complete this course will be more prepared for an in-depth study of other advanced mathematics courses. This course will include an in-depth study of the key concepts listed below with college and AP mathematics preparedness in mind. A graphing calculator (TI 83 or TI 84) is required.

Key Concepts: Powers and Exponents, Quadratic and Polynomial Functions, exponential and Logarithmic Functions.

Next Course in the Sequence: Honors Algebra 2C, Algebra 2C

HONORS ALGEBRA 2C

Grades 9-12

Prerequisite: Successful completion of Honors Algebra 2B (or Algebra 2B with a teacher recommendation)

Honors Algebra 2 is intended for students interested in higher level mathematics courses (Pre-Calculus, AP Calculus or AP Statistics) and is a three-trimester course with an emphasis on critical thinking and problem solving. These higher-level skills are necessary for preparing for upper-level mathematics courses at the high school and college levels. Students who successfully complete this course will be more prepared for an in-depth study of other advanced mathematics courses. This course will include an in-depth study of the key concepts listed below with college and AP mathematics preparedness in mind. A graphing calculator (TI 3 or TI 84 is required).

Key Concepts: Rational and Radical Functions, Piecewise Functions, Trigonometric Functions, Graphs and Identities

Next Course in the Sequence: Pre-Calculus A, Applications of Functions, College Prep Math, Probability and Statistics, AP Statistics

MATHEMATIC ELECTIVES

APPLICATIONS OF FUNCTIONS

Grades 11-12

Prerequisite: Successful completion of Algebra 2A or Honors Algebra 2A

Applications of Functions can be taken any time after successful completion of Algebra 2A. This course will help students further develop the mathematical skills and knowledge they already have by reviewing important concepts already learned in Algebra 1, Algebra 2, and Geometry with a focus on multiple representations (i.e. graphs, tables, and equations). Applications of Functions will be taught using a mixture of review of previously learned content as well as the integration of multiple representations and real-world application problems and activities to further stimulate retention and understanding of Michigan Merit Curriculum content. A graphing calculator (TI 83 or TI 84) is highly recommended.

Key Concepts: Linear Functions, Quadratic Functions and Polynomial Functions

Next Course in the Sequence: Algebra 2B, Algebra 2C, Pre-Calculus A, College Prep Math or Probability and Statistics A

COLLEGE PREP MATHEMATICS

Grades 11-12

Prerequisite: Successful completion of Algebra 2C or Honors Algebra 2C

This course is designed for students who have successfully passed Algebra 2 and its prerequisites. It will serve as a capstone mathematics course for Grand Ledge High School. Its purpose will be to help students make connections between and within all of the “big concepts” that they have previously learned in Algebra 1, Geometry, and Algebra 2. By better developing student understanding, the course will be able to take students’ previous knowledge to the next level, which will allow them to face math problems and algorithms that have an increased level of difficulty. A graphing calculator (TI 83 or TI 84) is required.

Key Concepts: Developing deeper understanding of the following: fundamentals of Algebra I, fundamentals of Geometry, fundamentals of Algebra II, and fundamentals of Trigonometry

Next Course in the Sequence: May be taken before or after any of the following classes after successfully completing Algebra 2B: Applications of Functions, Pre-Calculus A, Pre-Calculus B, Pre-Calculus C, or AP Calculus.

ELEMENTARY STATISTICS

Grades 9-12

Prerequisite: Successful completion of Algebra 1B

Statistics have become an important part of everyday life. They confront us in newspapers and magazines, on television and in general conversations. We encounter them when we discuss the cost of living, unemployment, medical breakthroughs, weather predictions, sports, politics, and the state lottery. Although we are not always aware of it, each of us is an informal statistician. We are constantly gathering, organizing and analyzing information and using this data to make judgments and decisions that will affect our actions. This course will

improve student understanding of the elementary topics included in statistics that are on the SAT and MME, and are also a part of the common core standards. A graphing calculator (TI 83 or TI 84) is highly recommended.

Key Concepts: Organizing and Displaying Data, Measures of Central Tendency, Frequency Tables and Histograms, Bar and Circle Graphs, Box & Whisker Plots, Stem & Leaf Plots, Data Distributions, Normal Distribution, and Differences between Sample Surveys, Experiments & Observational studies.

PRE-CALCULUS A

Grades 11-12

Prerequisite: Successful completion of Algebra 2A, 2B and 2C or Honors Algebra 2A, 2B and 2C, recommended B or better. Students will take a pre-assessment to determine enrollment in this class.

This is a challenging upper-level mathematics course. Much of this class is self-directed with the advanced student in mind. The content of this course integrates and applies the algebra and geometry students have studied in previous years. In this way, Pre-Calculus A provides an example of how a single mathematics course can involve all the major areas of mathematics. For a majority of this course a calculator will not be used in order to prepare students for the non-calculator portions of Calculus and higher-level math classes. For the portions that do require a calculator the graphing calculator (TI 83 or TI 84) is highly recommended. All students who enroll in Pre-Calculus A must first take the course pre-test to

help determine if they are prepared to take the course. Note that there is also summer homework assignments for students to complete prior to the start of the course.

Key Concepts: Fundamentals of Algebra, Properties of Functions, Polynomial Functions, Rational Functions and Systems of Equations

Next Course in the Sequence: Pre-Calculus B, Applications of Functions, College Prep Math, Probability and Statistics A

PRE-CALCULUS B

Grades 11-12

Prerequisite: Successful completion of Pre-Calculus A (recommend C or better)

This is a challenging upper-level mathematics course. Much of this class is self-directed with the advanced student in mind. The topics include a study of functions of angles of any size, radian measure, unit circle, trigonometric equations, identities, graphing of trigonometric functions, solutions of triangles, logarithms, and the use of various trigonometric formulas. For a majority of this course a calculator will not be used in order to prepare students for the non-calculator portions of Calculus and higher-level math classes. For the portions that do require a calculator the graphing calculator the graphing calculator (TI 83 or TI 84) is highly recommended.

Key Concepts: Exponential and Logarithmic Functions, Trigonometric Functions: Right Angle Triangle Approach, Trigonometric Functions: Unit Circle Approach, Analytic Trigonometry, and Cumulative Reviews of Pre-Calculus A and B Concepts

Next Course in the Sequence: Applications of Functions, Probability and Statistics A, Pre-Calculus C, College Prep Math, AP Calculus

PRE-CALCULUS C

Grades 11-12

Prerequisites: Successful completion of Pre-Calculus B

This advanced upper-level mathematics course is designed for students who plan to take AP Calculus and/or study a math- related field in college. For a majority of this course a calculator will not be used. For the portions that do require a calculator, the graphing calculator (TI 83 or TI 84) is required.

Key Concepts: Sequences, Series, Limits, Derivatives, Integrals and Cumulative Reviews of Pre-Calculus A, B and C Concepts

Next Course in the Sequence: Applications of Functions, Probability and Statistics A, College Prep Math, AP Calculus

PROBABILITY AND STATISTICS A

Grades 11-12

Prerequisite: Successful completion of Algebra 2C and students should be at grade level in reading and writing

This challenging course is designed for **hardworking** students who have successfully passed Algebra 2 and its prerequisites. This will serve as an introduction to probability and statistics. Students will be able to formulate questions that can be addressed with data and collect, organize, and display relevant data, statistical reasoning and interpretation of that data. They will also be able to use appropriate statistical methods to analyze data, develop

and evaluate predictions about data, and understand and apply concepts of probability. A graphing calculator (TI-83 or TI-84) is required.

Next Course in the Sequence: Probability and Statistics B; May be taken concurrently with any of the following classes after successfully completing Algebra 2C: Applications of Functions, Pre-Calculus A, Pre-Calculus B, College Prep Math, or AP Calculus

PROBABILITY AND STATISTICS B

Grades 11-12

Prerequisite: Successful completion of Probability and Statistics A (recommend a B or better) and students should be at grade level in reading and writing

This course is a continuation of Probability and Statistics A, an introduction to probability and statistics. Students will be able to formulate questions that can be addressed with data, perform a number of statistical tests, and be able to use appropriate statistical tests to analyze data and evaluate predictions about data. Students will perform a study for their final project. A graphing calculator (TI-83 or TI-84) is required.

Next Course in the Sequence: May be taken concurrently with any of the following classes after successfully completing Probability & Statistics A: Applications of Functions, Pre-Calculus B, Pre-Calculus C, College Prep Math, or AP Calculus

AP MATH OPTIONS

ADVANCED PLACEMENT STATISTICS A, B & C

Grades 11-12

Prerequisites: Successful completion of Algebra 2 or Honors Algebra 2 with at least a B and be at or above grade level in reading and writing

This course (all 3 trimesters) is designed for **serious** students who wish to cover the material found in a 1st semester Statistics course in college. Students who take this course have the opportunity to take the Advanced Placement exam in May and can receive up to 3 college credits if they pass this exam. (Each college or university determines credits received.) A graphing calculator (TI-83 or TI-84) is required for this course (it can be used on all parts of the AP exam).

Note that there is a summer homework assignment to complete prior to the start of the course.

ADVANCED PLACEMENT CALCULUS AB A, B & C

Grades 11-12

Prerequisites: Successful completion of Pre-Calculus A & B (with at least a C- in Pre-Calculus B)

This course (all 3 trimesters) is designed to cover the material found in a 1st semester Calculus course in college. Students who take this course have the opportunity to take the Advanced Placement exam in May and can receive up to 4 college credits if they pass this exam. (Each college or university determines credits received.) A graphic calculator (TI-83, TI-84 or TI-89 is required for this course.)

Note that there is a summer homework assignment to complete prior to the start of the course.

ADVANCED PLACEMENT CALCULUS BC A, B & C

Grades 11-12

Prerequisite: Successful completion of Pre-Calculus B (with an A) and Teacher Recommendation

This course (all 3 trimesters) is designed to cover the material found in a 1st and 2nd semester Calculus course in college. Students who take this course have the opportunity to take the Advanced Placement exam in May and can receive up to 8 college credits if they pass this exam. (Each college or university determines credits received.) A graphic calculator (TI-83, TI-84 or TI-89 is required for this course.)

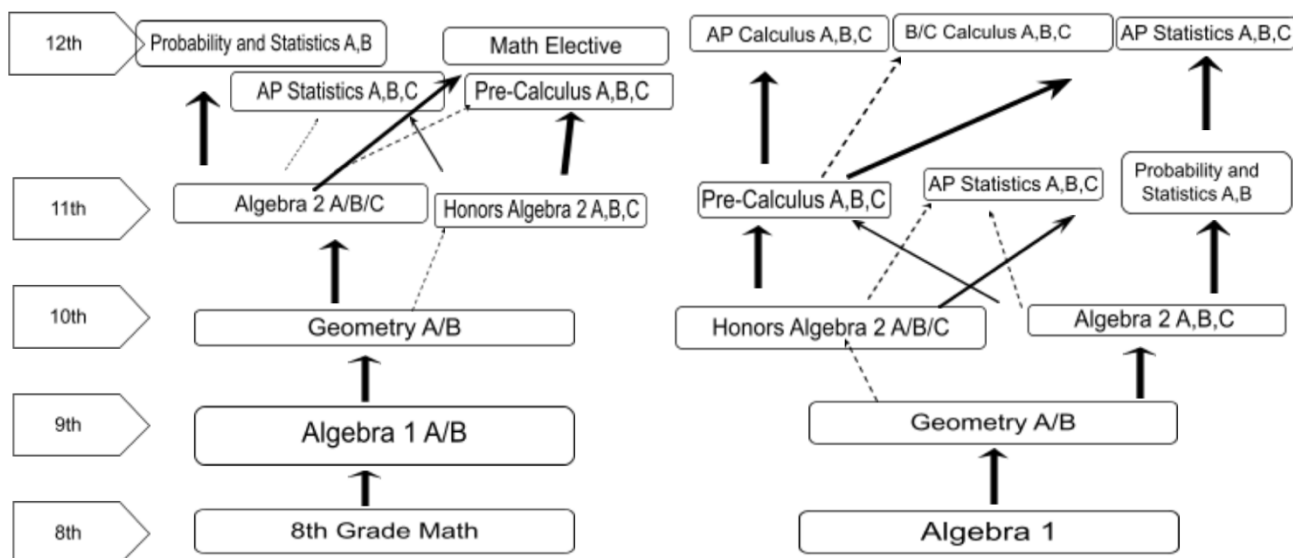
Note that there is a summer homework assignment to complete prior to the start of the course.

GLHS Department of Mathematics

Flow Chart for Mathematics Course

Algebra 1, Geometry, Algebra 2 and a Senior Year math experience are required for graduation.

Dashed line means teacher recommendation is required.



Senior Year Math Electives:

- All Career Center courses that have embedded math into the curriculum
- Accounting 1A/B
- Accounting 2A/B
- Marketing 2A/B
- Business Finance
- Financial Living Skills
- Intro to Programming
- Physics A/B
- AP Physics C
- Chemistry A/B
- AP Micro/Macro
- Beginning Design Engineering A/B
- Beginning Drafting A/B
- Technical Drafting 1A/B
- Technical Drafting 2A/B
- Technical Drafting 3A/B
- Advanced Design Engineering 1A/B
- Advanced Design Engineering 2A/B

For more information about math at Grand Ledge High School please visit the department website <https://glhsmath.weebly.com/index.html>

You will find more details about each course including links to textbooks, test out information, and more.

<p style="text-align: center;">Grand Ledge Public Schools HIGH SCHOOL MUSIC/PERFORMING ARTS PROGRAM</p>
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BAND

COMET BAND (3 Trimesters)

Grades 9-12

Prerequisite: Previous band experience is preferred.

The Comet Band performs at concerts during the school year and is focused on providing students with the basics they need to succeed in an instrumental music course. Curriculum for this class consists of fundamental music skills such as note and rhythm reading and tone production. There is no audition required for students to participate in this class. The literature studied in this class is within each student's capabilities and provides the student with necessary experience to develop his/her own potential. After school sectionals, rehearsals and performances are required. Grades are based on participation, improvement, attitude and tests. Students are strongly encouraged to take private lessons during the course of the school year.

CONCERT BAND (3 Trimesters)

Grades 9-12

Prerequisite: previous band experience and audition with director.

The Concert Band performs numerous concerts a year including Band Festival. A variety of quality wind literature is performed as well as Solo and Ensemble music. The literature studied in this class is within each student's capabilities and provides the student with necessary experience to develop his/her own potential. After school sectionals, rehearsals and performances are required. Grades are based on participation, improvement, attitude and tests. Students are strongly encouraged to take private lessons during the course of the school year.

SYMPHONY BAND (3 Trimesters)

Grades 9-12

Prerequisite: Audition with band director.

The Symphony Band performs numerous concerts each year and participates at district festival. A variety of quality wind literature is performed as well as solo and ensemble music. The literature worked on is within each student's capabilities and provides the student with the necessary experience to develop his/her own potential. After school sectionals, rehearsals and performances are required. Grades are based on participation, improvement, attitude and tests. Students are strongly encouraged to take private lessons during the course of the school year.

WIND SYMPHONY (3 Trimesters)

Grades 9-12

Prerequisite: Audition with band director.

Wind Symphony consists of the most talented instrumentalists in the band program. Membership is by audition only. The ensemble performs numerous concerts each year. This band offers advanced students the opportunity for continued musical growth. The band strives for the highest musical standards possible and constantly seeks improvement. After school sectional, rehearsals and performances are required. Grades are based on attitude, participation and individual performance. Students in Wind Symphony are expected to take private instrument lessons during the course of the school year.

VOCAL MUSIC

BEL CANTO (3 Trimesters)

Grades 10-12

Prerequisite: Audition with choir director.

This is a choir for sopranos and altos who have had previous choir experience and can demonstrate good vocal production and primary-intermediate sight-reading and music theory. They will practice many different types of vocal music and will perform at least four times and at choral festivals. Student evaluation will be based on attitude, effort, progress, and written and singing tests.

CONCERT CHOIR (3 Trimesters)

Grades 10-12

Prerequisites: Choir experience and audition with the choir director.

This is a choir for sopranos, altos, tenors, and basses. An understanding of good singing and intermediate sight-reading is necessary. A variety of music will be studied and performed with participation in at least 3 concerts and 1 festival required. Evaluation is based on class and concert participation, and written and singing tests.

MADRIGAL SINGERS (3 Trimesters)*Grades 11-12***Prerequisites:** Audition with choir director, ability to sight-read and sing independently.

This is a very select group of singers who are capable of difficult and unaccompanied vocal music. Excellent sight-reading skills (intermediate-advanced level) are required. This group performs frequently at concerts and festivals. Auditions for the group will be held the prior spring.

VOCAL ENSEMBLE (3 Trimesters)*Grades 9-12***Prerequisite:** Audition with choir director.

This is an entry-level choir experience designed for soprano and alto singers with a desire to learn vocal production, music theory and sight-reading. Evaluation is based on class participation and written and singing tests. Performances in four concerts and choral festivals are required. Student evaluation will be based on attitude, effort, progress, and written and singing tests.

PERFORMING ARTS**DANCE** (1 Trimester)*Grades 9-12*

The purpose of this course is to give students of varying dance abilities and experience the opportunity to enrich their kinesthetic awareness by learning several genres of dance (ballet, jazz, tap, musical theatre, etc.) as well as learning basic fitness and stretching principles, the history of dance, dance terminology, choreography, and dance production. There will be a performance at the end of the trimester. It is required to perform and this will count as your final exam. The goal of this class is that the students will learn basic through advanced steps from a variety of dance forms, improve their physical fitness, as well as gain an appreciation of dance, the performing arts as a whole, and how dance and its discipline and creative nature can enrich all areas of their life and learning. Students who enroll in this course have VERY high expectations to be hard working, responsible, and have a willingness to try new things.

MUSIC TECH (1 Trimester)*Grades 9-12***Prerequisites:** There are no course prerequisites and this course is open to 9-12 grade students. The ability to read sheet music is helpful, but not required.

Students will learn about the technology side of music. Students will learn how to use a soundboard to mix live performances and take a deep look into what goes into a studio-recorded song. This hands-on course will teach about the proper equipment used for live sound and studio recording and will also develop your creative side as we create our own music.

THEATRE (1 Trimester)*Grades 10-12***Prerequisite:** B- or better in English 9

This course is an introduction to theatre appreciation and performance. Students will explore developmental elements in ensemble trust building, observation, confidence, imagination and creativity. Many aspects of the theatre will be covered, including history of theatre, improvisation, scene study, staging techniques and acting techniques. Students will be required to perform scenes in class and participate (cast/crew) in 1 outside of class performance.

<p style="text-align: center;">Grand Ledge Public Schools HIGH SCHOOL PRACTICAL ARTS PROGRAM</p>
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BEGINNING DESIGN ENGINEERING 1A*Grades 10-12*

This course introduces Architectural and Civil drafting techniques. Students will research and apply design theories used in the fundamental stage of engineering. Students will develop the skills needed to properly design and draw all the necessary drawings required to build a house according to accepted codes and practices. This course will use both hand sketches and A+ CAD basics.

BEGINNING DESIGN ENGINEERING 1B*Grades 10-12***Prerequisite: Beginning Design Engineering 1A**

This course is a continuation of Beginning Design Engineering 1A. This portion of the course will introduce students to advanced design theories and Computer Aided Design (CAD) techniques. Students will test their ideas as they research and develop prototype models. Software choices: SolidWorks, A+ CAD, and, Sketch-up

ADVANCED DESIGN ENGINEERING 1A*Grade 10-12***Prerequisite: Beginning Design Engineering 1B****(Students will be a completer of the Engineering CIP)**

This course will further the skills acquired in Beginning Design Engineering A & B. Students will concentrate on picking an area of engineering to explore and create presentation drawings. Software choices: SolidWorks, A+ CAD, Sketch-up, ArchiCAD, and Bentley

ADVANCED DESIGN ENGINEERING 1B*Grades 10-12***Prerequisite: Advanced Design Engineering 1A**

This course will further the skills acquired in Beginning Design Engineering A & B. Students will work on long term projects and follow industry standards to complete their capstone project. Software choices: SolidWorks, A+ CAD, Sketch-up, ArchiCAD, and Bentley

ADVANCED DESIGN ENGINEERING 2A*Grades 11-12***Prerequisite: Advanced Design Engineering 1B**

This course is a culmination of all previous Design Engineering courses. In this course all prior skill sets are brought together in one or several large long-term projects. This course is designed to advance the mastery of the student's skills in design using a variety of CAD software's. Software choices: SolidWorks, A+ CAD, Sketch-up, ArchiCAD, and Bentley

ADVANCED DESIGN ENGINEERING 2B*Grades 11-12***Prerequisite: Advanced Design Engineering 2A**

This is a continuation of Advanced Design Engineering 2A. Students should have the desire to further their design and CAD skills before moving on to the university level. Software choices: SolidWorks, A+ CAD, Sketch-up, ArchiCAD, Bentley

BEGINNING DRAFTING A*Grades 9-12*

This is the beginning course in drafting.

This course will introduce the student to the graphic language of drafting. Some of the areas covered are: measuring, sketching, multi-view projection drawings, and section drawings. This a hand sketching and Basic A+ CAD course

BEGINNING DRAFTING B*Grades 9-12***Prerequisite: Beginning Drafting A**

This course is a continuation of Beginning Drafting. In this portion of the course some of the areas covered are: architectural drawings, and an introduction to Computer Aided Design (CAD). This a A+ CAD and SolidWorks course

TECHNICAL DRAFTING 1A*Grades 10-12***Prerequisite: Beginning Drafting B**

The purpose of this course is to advance the student's mechanical drafting abilities. This course will build upon skills learned in Beginning Drafting A and B and include more difficult drawing problems. Some of the areas covered are multi-view projection drawings, section drawings, and pictorial views. This is a SolidWorks course

TECHNICAL DRAFTING 1B*Grades 10-12***Prerequisite: Technical Drafting 1A****(Students will be a completer of the Drafting and Technology CIP)**

This course is a continuation of Technical Drafting 1A. Among the content covered in this portion of the course will be: auxiliary views, working drawings, and a continued emphasis on CAD. This is a SolidWorks and other web based Engineering Computer Aided Design software course.

TECHNICAL DRAFTING 2A*Grades 10-12***Prerequisite: Technical Drafting 1B**

This course is designed to further advance the student's mastery of drafting skills using a variety of CAD software's. Advanced areas emphasized will be: working and assembly drawings as well as geometric dimensioning and tolerance. Students will be introduced to 3D solid modeling using CAD software.

TECHNICAL DRAFTING 2B*Grades 10-12***Prerequisite: Technical Drafting 2A**

This course is a continuation of Technical Drafting 2A expanding on working and assembly drawings and introducing gears and cams and structural drawings, as well as further exploration of 3D solid modeling using a variety of CAD software's.

TECHNICAL DRAFTING 3A*Grades 11-12***Prerequisite: Technical Drafting 2B**

This course is a culmination of all previous Technical Drafting courses. In this course all prior skill sets are brought together in one or several large long-term projects. Students will be introduced to reverse engineering and photorealistic rendering using several different CAD and rendering software. Depending on the complexity of the project(s) and the student's educational aspirations this course can be one or two trimesters.

TECHNICAL DRAFTING 3B*Grades 11-12***Prerequisite: Technical Drafting 3A**

This is a continuation of Technical Drafting 3A should the student desire to further their CAD and reverse engineering skills before moving on the university level.

Grand Ledge Public Schools
HIGH SCHOOL SCIENCE PROGRAM

Michigan Merit Curriculum credits of Biology (A & B) OR Honors Biology (A & B) and Physical Science – (C & P) OR Chemistry (A & B) OR Physics (A & B) are required for graduation. There is also a requirement of at least two (2) additional science trimesters

9 th Grade Options	10 th Grade Options	11 th /12 th Grade Options
Biology (A&B) Honors Biology (A&B) Astronomy Geology	Physical Science P Physical Science C Chemistry (A&B) Physics (A&B) Anat. & Physio. (A,B,C) Astronomy Geology	Physical Science P Physical Science C Chemistry (A&B) Chemistry (A&B) Physics (A&B) Anat. & Physio. (A,B,C) Astronomy* Geology* AP Biology AP Chemistry AP Physics

*It is strongly advised that Geology and Astronomy courses are taken by **all** students before the 3rd trimester of their junior year to ensure exposure to material on the State Science Assessment occurs before the date of testing.

SCIENCE CLASSES

BIOLOGY A (must be taken sequentially – A before B)

Grades 9-12

Prerequisite: None

This is a required course: All 9th grade students must Biology OR Honors Biology

This course will provide a strong biology foundation. Students will discover the world around them while preparing for future science courses. This course will include a curriculum regarding how to study, note-taking strategies, and other academic supports. Biology A: Topics to be covered include the scientific method, chemistry of life, cell theory and specialized cells, photosynthesis, cellular respiration and energy transfer, cellular division including mitosis/meiosis, DNA/protein synthesis, DNA replication. This course aligns with the MMC curriculum and the Next Generation Science Standards in the areas of “Structure and Function,” “Matter and Energy in Organisms and Ecosystems,” and “Inheritance and Variation of Traits.”

BIOLOGY B (must be taken sequentially – A before B)

Grades 9-12

Prerequisite: Successful completion of Biology A

This is a required course: All 9th grade students must Biology OR Honors Biology

This course will provide a strong biology foundation. Students will discover the world around them while preparing for future science courses. This course will include a curriculum regarding how to study, note-taking strategies, and other academic supports. Biology B: Topics to be covered include Mendelian genetics, variation of traits, applications of genetics, ecology and the cycling of matter, weather and climate, human population and sustainability, evolution and the history of life, and classification. This course aligns with MMC curriculum and the Next Generation Science Standards in the areas of “Matter and Energy in Organisms and Ecosystems,” “Interdependent Relationships in Ecosystems,” “Inheritance and Variation of Traits,” “Natural Selection and Evolution,” “Weather and Climate,” “Human Sustainability,” “History of Earth,” and “Earth Systems.”

HONORS BIOLOGY A (must be taken sequentially – A before B)*Grades 9-12*

Prerequisite: Students will be recommended for placement in this course based on Middle School performance

This is a required course: All 9th grade students must Biology OR Honors Biology

This course will provide a strong biology foundation. Students will discover the world around them while preparing for future science courses. This course will include an in-depth study of the following topics with college science and AP science preparedness in mind. Biology A: Topics to be covered include the scientific method, chemistry of life, cell theory, photosynthesis, cellular respiration, mitosis/meiosis, DNA/protein synthesis, and genetics. Matter and Energy in Organisms and Ecosystems,” and “Inheritance and Variation of Traits.”

HONORS BIOLOGY B (must be taken sequentially – A before B)*Grades 9-12*

Prerequisite: Successful completion of Honors Biology A

This is a required course: All 9th grade students must Biology OR Honors Biology

This course will provide a strong biology foundation. Students will discover the world around them while preparing for future science courses. This course will include an in-depth study of the following topics with college science and AP science preparedness in mind. Biology B: Topics to be covered include the applications of genetics, ecology and the environment, evolution and the history of life, and classification. This course aligns with MMC curriculum and the Next Generation Science Standards in the areas of “Matter and Energy in Organisms and Ecosystems,” “Interdependent Relationships in Ecosystems,” “Inheritance and Variation of Traits,” “Natural Selection and Evolution,” “Weather and Climate,” “Human Sustainability,” “History of Earth,” and “Earth Systems.”

PHYSICAL SCIENCE C (One trimester of a two-trimester course)*Grades 10-12*

Prerequisites: Successful completion of Biology A & B or Honors Biology A & B, teacher recommendation.

Physical Science – C will discuss the theories and concepts of matter and energy in the context of chemistry and how they apply to the physical world. An investigative approach is used to explain naturally occurring phenomenon that students encounter in their everyday lives. Labs, projects, and tests will be used to construct ideas about matter and energy. This course aligns with MMC curriculum and the Next Generation Science Standards in the areas of Structure and Properties of Matter, Bonding and Intermolecular Forces, Energy, and Reactions. All students must pass either Chemistry A & B, Physics A & B, or Physical Science C & P to satisfy Michigan Merit Curriculum Standards

PHYSICAL SCIENCE P (One trimester of a two-trimester course)*Grades 10-12*

Prerequisites: Successful completion of Biology A & B or Honors Biology A & B, teacher recommendation.

Physical Science P furthers a student’s understanding of the physics of movement with a reduced mathematical component (though calculations and estimations will still be completed). In the first couple of units, students learn how to analyze and describe an object’s motion in one or two dimensions. From there, the course moves to Newton’s Laws of Motion and what causes an object to change its position or velocity. Students will then learn about changes in energy due to position or motion, including colliding objects. Finally, students will learn about electricity and circuits using Ohm’s Law. This course aligns with MMC curriculum and the Next Generation Science Standards in the areas of Forces and Interactions, Energy, and Waves and Electromagnetic Radiation. All students must pass either Chemistry A & B, Physics A & B, or Physical Science C & P to satisfy Michigan Merit Curriculum Standards

CHEMISTRY A (must be taken sequentially – A before B)*Grades 10-12*

Prerequisites: Successful completion of Biology A & B AND completion of Geometry OR a 4.0 in Algebra 1A

The chemistry study program is a highly structured course investigating the theories and concepts of chemistry. A lab approach is used as a discovery process with supporting material being presented in the text as the concept is developed. Testing is on the understanding and application of concepts studied. Topics covered include: Data Analysis, Matter-Properties and Change, Structure of the Atom, Periodic Table and Periodic Law, Elements, Ionic Compounds, Covalent Compounds, Chemical Reaction. All students must pass either Chemistry A & B, Physics A & B, or Physical Science C & P to satisfy Michigan Merit Curriculum Standards

CHEMISTRY B (must be taken sequentially – A before B)*Grades 10-12***Prerequisite: Successful completion of Chemistry A.**

The chemistry study program is a highly structured course investigating the theories and concepts of chemistry. A lab approach is used as a discovery process with supporting material being presented in the text as the concept is developed. Testing is on the understanding and application of concepts studied. Topics covered include: Chemical Reactions, The Mole, Stoichiometry, States of Matter, Gas Laws, Solutions, Energy and Chemical Change, Acids and Bases. All students must pass either Chemistry A & B, Physics A & B, or Physical Science C & P to satisfy Michigan Merit Curriculum Standards

PHYSICS A (must be taken sequentially – A before B)*Grades 10-12***Prerequisites: Successful completion of Algebra 2. It is also strongly recommended that Algebra 3 be completed or taken concurrently.**

Physics A furthers a student's understanding of dynamics. The first couple of units teach students how to analyze and describe an object's motion in one or two dimensions. From there, the course moves to Newton's Laws of Motion and what causes an object to change its position or velocity, included in this are the details for linear and circular motion, Universal Gravitation, and Torque. All students must pass either Chemistry A & B, Physics A & B, or Physical Science C & P to satisfy Michigan Merit Curriculum Standards

PHYSICS B (must be taken sequentially – A before B)*Grades 10-12***Prerequisites: Successful completion of Physics A.**

Physics B is the follow-up course to Physics A. Physics B moves out of the study of macroscopic objects and motion, and begins to examine properties of energy in its various forms throughout the universe. Units to be studied include Energy and momentum, which studies the property of energy contained within an object and how it is transferred, mechanical waves and oscillatory motion, where we will examine the properties of sound, electromagnetic radiation, which will focus on the properties of light, electricity, and the study of circuit properties, and, finally, modern physics and the implications of treating energy as a particle, and matter as a wave. All students must pass either Chemistry A & B, Physics A & B, or Physical Science C & P to satisfy Michigan Merit Curriculum Standards

AP SCIENCE OPTIONS**ADVANCED PLACEMENT BIOLOGY A, B, & C (must be taken sequentially-A before B and A & B before C)***Grades 10-12***Prerequisites:** We strongly recommend for students' success that they have a:

- 1. B+ average in Honors Biology or Biology and teacher recommendation**
- 2. B average in Chemistry or teacher recommendation**

This course strives to meet the objectives of an introductory biology course at the college level. There are four major areas of study. *Big Idea 1:* The process of evolution drives the diversity and unity of life. *Big Idea 2:* Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to 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 possess complex properties. Approximately 25% of class time will be spent on laboratory activities and practices. Twelve laboratory exercises highly recommended by the Advanced Placement Program supplement this course.

Advanced Placement Biology A (offered 1st Trimester only)

Students will study the following AP Biology content topics: Ecology, Biochemistry, Cellular Structure and Function, Cell Communication, Energy in Living Systems, Cellular Respiration Endocrine, Nervous, Cardiovascular systems

Advanced Placement Biology B (offered 2nd Trimester only)

Students will study the following AP Biology content topics: Photosynthesis, Biotechnology, Viruses, Gene Expression, Genetics

Advanced Placement Biology C (offered 3rd Trimester only)

Students will study the following AP Biology content themes: Mechanisms of Evolution, The Evolutionary History of Biological Diversity, Immune System

ADVANCED PLACEMENT CHEMISTRY A, B, & C (must be taken sequentially-A before B & B before C) Grades 10-12

AP Chemistry meets the MMC requirement for a Senior year math credit if taken while a Senior.

Prerequisites: We strongly recommend for students to be successful that they have a:

1. **B+ average in Chemistry or teacher recommendation**
2. **B average in Algebra 2 or teacher recommendation**
3. **It is very strongly recommended that students have also completed or are concurrently enrolled in Math Applications with Trigonometry or Calculus.**

This course strives to meet the objectives of an introductory chemistry course at the college level. There are four major areas of study: *Structure of Matter*, involving the atomic theory and structure, chemical bonding, and nuclear chemistry; *States of Matter*, including solids, liquids, gas laws, and solutions; *Reactions*, including reaction types, stoichiometry, chemical equilibrium, chemical kinetics, and thermodynamics; and *Descriptive Chemistry*, including periodic trends, chemical reactivity, and organic chemistry. A number of laboratory exercises recommended by the Advanced Placement Program will supplement this course.

Advanced Placement Chemistry A (Offered 1st Trimester Only):

- General Chemistry
- Stoichiometry
- Thermochemistry
- Solutions
- Electronic Structure of the Atom
- Chemical Bonding

Advanced Placement Chemistry B (Offered 2nd Trimester Only):

- Gases
- Intermolecular Forces
- Chemical Kinetics
- Chemical Equilibrium
- Acids and Bases
- Aqueous Equilibrium

Advanced Placement Chemistry C (Offered 3rd Trimester Only):

- Chemical Thermodynamics
- Electrochemistry
- Selected advanced topics

ADVANCED PLACEMENT PHYSICS C 1, 2, & 3 (must be taken sequentially – 1 before 2 & 2 before 3)

AP Physics meets the MMC requirement for a senior year math credit if taken while a senior.

Prerequisites:

***Completion of Calculus AB or BC or concurrent enrollment in Calculus AB or BC.**

***It is also strongly recommended that student's complete chemistry prior to Advanced Placement Physics C.**

***Notice: Physics A & B are NOT a prerequisite for AP Physics C.**

AP Physics C is the equivalent to a first-semester college course in Calculus-based physics. Students will develop a strong conceptual and analytical understanding of Newtonian Mechanics and apply a wide variety of problem-solving strategies and lab-based skills to reinforce this understanding. Lecture, discussion, guided-inquiry, and open-inquiry will be used both in the classroom and in the lab. Emphasis will also be placed on communicating an understanding of physics orally and in writing both to the instructor and peers. Although this course does meet the MMC requirement of 2 credits of either Chemistry or Physics, the primary goal of the course is to prepare students to succeed on the AP Physics C exam, which may earn them college credit for calculus-based physics. (Required test scores and credit awarded varies. Students are encouraged to contact the universities to which they are applying for details.)

SCIENCE ELECTIVES

ANATOMY AND PHYSIOLOGY A (prerequisite for B and C)

Grades 11-12

Prerequisites: For sophomores to enroll in this course, successful completion of Biology A & B or Honors Biology A & B with an 83% or above is required.

This science elective is an advanced course that studies how the human body is organized and how it works. Most of the body systems are covered in a lecture-laboratory format. Other methods include class discussion and relevant videos. Topics covered in Anat/Phys A include: Anatomical Terms, Histology, Integumentary System, and Skeletal System.

***Anatomy & Physiology A is a prerequisite for both B and C.**

ANATOMY AND PHYSIOLOGY B (must be taken sequentially – A before B)

Grades 11-12

Prerequisites: Successful completion of Anatomy and Physiology A.

This class is a continuation of Anat/Phys A. Topics covered in Anat/Phys B include: Muscular System, Heart and Circulatory System, Digestion and Respiration. Comparative anatomy is accomplished through dissection of pig hearts and a major portion of this trimester is devoted to the dissection of the domestic cat. Students must complete the cat dissection. There is not an alternative assignment for this portion of the course.

***Anatomy & Physiology B is NOT a prerequisite for Anatomy & Physiology C. Students may choose to take Anatomy & Physiology A and B, A and C, or all A, B, and C.**

ANATOMY AND PHYSIOLOGY C (must be taken sequentially – A before C)

Grades 11-12

Prerequisites: Successful completion of Anatomy and Physiology A.

This science elective is an advanced course that examines how the human body is organized and how it works. Most of the body systems are covered in a lecture/laboratory format. Comparative anatomy is accomplished through dissection/observation of sheep brains, kidneys, and eyes. Body systems covered include the Brain, Peripheral Nervous System, Special Senses, Endocrine System and Urinary System.

***Anatomy & Physiology B is NOT a prerequisite for Anatomy & Physiology C. Students may choose to take Anatomy & Physiology A and B, A and C, or all A, B, and C.**

ASTRONOMY

Grades 9-12

Prerequisite: None

The underlying principles of life, earth, and physical science are integrated in this study of the universe. Observational astronomy, celestial sphere, historical astronomy, the moon, the solar system, comets, constellations, extraterrestrial life, the evolution of stars including black holes are the major topics of study. Observational astronomy skills and critical thinking are fostered through the use of laboratory and field activities. It is strongly advised that Geology and Astronomy courses are taken by **all** students before the 3rd trimester of their junior year to ensure exposure to material on the State Science Assessment occurs before date of testing.

GEOLOGY OF GRAND LEDGE

Grades 9-12

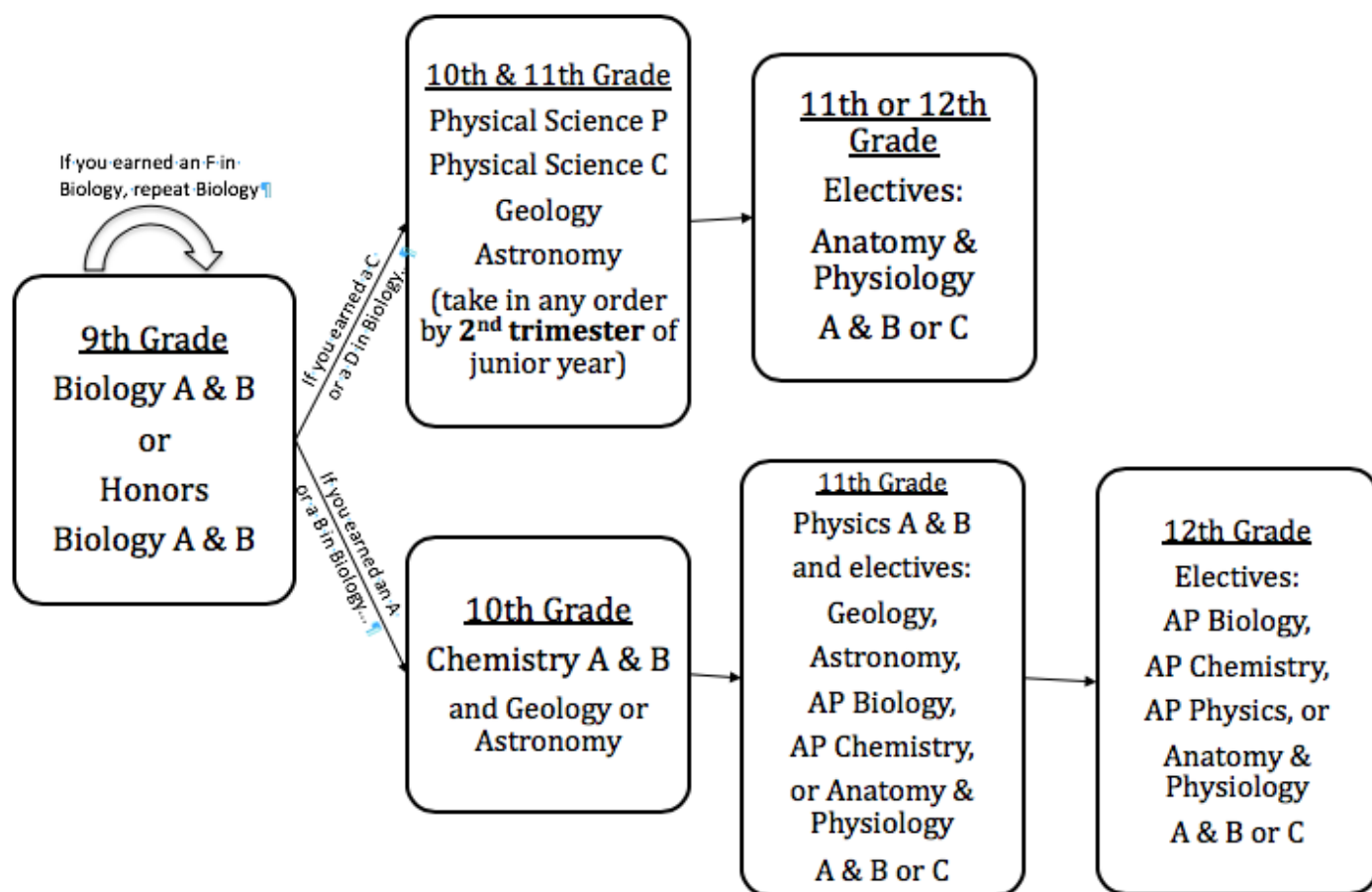
Prerequisite: None

In this course students will explore the history of Earth and how it has changed through time. Students will take a specific look at the famous Ledges of Grand Ledge. They will learn how plate tectonics, erosion, and glaciation have affected Grand Ledge, the Earth and Earth systems. They will explore the Geologic Time Scale, as well as the fossil record of flora and fauna through time.

Observational skills and critical thinking are fostered through the use of laboratory and field work. This course aligns with MMC curriculum and the Next Generation Science Standards in the areas of “History of Earth” and “Earth Systems”. It is strongly advised that Geology and Astronomy courses are taken by **all** students before the 3rd trimester of their junior year to ensure exposure to material on the State Science Assessment occurs before date of testing.

Flow Chart of Recommended Student Progression through Science Courses

Before scheduling, students should speak with a current or former science teacher to verify appropriate subsequent science class(es) to take.



Grand Ledge Public Schools
HIGH SCHOOL SOCIAL STUDIES PROGRAM

SOCIAL STUDIES

UNITED STATES HISTORY A

Grade 9

Students must complete one of these in order to graduate: (1) both 9th Grade U.S. History A and 9th Grade U.S. History B -OR- (2) both American Studies A and American Studies B -OR- (3) all A.P. U.S. History courses (A, B, and C).

Students will learn about the American experience over time and space in this survey course. While learning about the facts, events, and significant developments, students must also learn to read critically, analyze and evaluate arguments, decide which positions, given the evidence, are more or less plausible, better or worse.

This portion of this course focuses on the following eras from Michigan High School Social Studies Content Expectations for United States History and Geography: Review of earlier study of United States History (Era 1, Beginnings to 1620; Era 2, Colonization and Settlement, 1585-1763; Era 3, Revolution and the New Nation, 1754-1800s; Era 4, Expansion and Reform, 1792-1861; and Era 5, Civil War and Reconstruction, 1850-1877); Era 6, the Development of an Industrial, Urban, and Global United States, 1870-1930; and the first portion of Era 7, The Great Depression, 1920-1930.

UNITED STATES HISTORY B

Grade 9

Students must complete one of these in order to graduate: (1) both 9th Grade U.S. History A and 9th Grade U.S. History B -OR- (2) both American Studies A and American Studies B -OR- (3) all A.P. U.S. History courses (A, B, and C).

The Social Studies Department recommends earning credit in U.S. History A before taking this course.

Students will learn about the American experience over time and space in this survey course. While learning about the facts, events, and significant developments, students must also learn to read critically, analyze and evaluate arguments, decide which positions, given the evidence, are more or less plausible, better or worse.

This portion of this course focuses on the following eras from Michigan High School Social Studies Content Expectations for United States History and Geography: The second portion of Era 7, The Great Depression and World War II (1920-1945); Era 8, Post-World War II United States, 1945-1989; and Era 9, America in a New Global Age.

WORLD HISTORY A

Grade 10

This course is required for graduation .

Students in this course will learn about the human experience over time and space. This survey course takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment. While learning about the facts, events, and significant developments, students must also learn to read critically, analyze and evaluate arguments, decide which positions, given the evidence, are more or less plausible, better or worse.

This portion of this course focuses on the following eras from Michigan High School Social Studies Content Expectations for World History and Geography: Review of earlier study of World History (Era 1, The Beginnings of Human Society, beginnings to

4000 B.C.E./B.C.; Era 2, Early Civilizations and Cultures and the Emergence of Pastoral Peoples, 4000 to 1000 B.C.E./B.C.; and Era 3, Classical Traditions, World Religions, and Major Empires, 1000 B.C.E./B.C. to 300 C.E./A.D.); Era 4, Expanding and Intensified Hemispheric Interactions, 300 to 1500 C.E./A.D.; and Era 5, The Emergence of the First Global Age, 15th to 18th Centuries.

GRADE WORLD HISTORY B

Grade 10

This course is required for graduation. *Department recommends earning credit in 10th Grade World History A before taking this course.

Students in this course will learn about the human experience over time and space. This survey course takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment. While learning about the facts, events, and significant developments, students must also learn to read critically, analyze and evaluate arguments, decide which positions, given the evidence, are more or less plausible, better or worse.

This portion of this course focuses on the following eras from Michigan High School Social Studies Content Expectations for World History and Geography: Era 6, An Age of Global Revolutions, 18th Century to 1914; Era 7, Global Crisis and Achievement, 1900 to 1945; and Era 8, The Cold War and its Aftermath, the 20th Century since 1945; and Contemporary Global Issues.

AFRICAN-AMERICAN STUDIES A

Accelerated 10

or Grade 11

*A two-hour block class comprised of English 11A and 9th Grade U.S. History A (with a focus from the African-American perspective) therefore 2 MMC credits – 1 English and 1 U.S. History **or** it can be 1 English credit and 1 Social Studies elective credit if a student has previously earned a 9th Grade U.S. History credit.*

Prerequisite: Successful completion of English 10B.

African-American Studies is an interdisciplinary course that combines African-American Literature and African-American history. This class allows students to investigate African-American culture, values, literary trends, and historical events through the use of novels, short stories, plays, essays, film, music, and primary sources. This course is a thematic course in which we will look at American history and literature through the African-American lens with a focus on social justice issues. African-American Studies A will focus on the period of 1619-through WWI (all through the African-American lens).

AFRICAN-AMERICAN STUDIES B

Accelerated 10

or Grade 11

*A two hour block class comprised of ENGLISH 11B and 9th Grade U.S. History B 9 (with a focus from the African-American perspective) therefore 2 MMC credits - 1 English and 1 U.S. History **OR** it can be 1 English credit and 1 Social Studies credit if a student had previously earned a 9th grade U.S. History credit.*

Prerequisite: Successful completion of African-American Studies A Studies is an interdisciplinary course that combines African-American Literature and African-American history. This class allows students to investigate African-American culture, values, literary trends and historical events through the use of novels, short stories, plays, essays, film, music and primary sources. This course is a thematic course in which we will look at American history and literature through the African-American lens with a focus on social justice issues. African-American Studies B will focus on the period of the 1920s-present day (all through the African-American lens).

BASIC ECONOMICS

Grades Accelerated 10, 11-12

Either this one course or both Marketing 1A and 1B are required for graduation.

Understanding economics – what some people call “economic literacy” – is becoming essential for citizens in our national and increasingly interconnected world economy. Such literacy includes analysis, reasoning, problem solving, and decision-making that help people function as consumers, producers, savers, investors, and responsible citizens. Students analyze and study economic concepts and principles in three contextual areas (individual and household context, a business context, and a government or public context) and focus around four content areas (the Market Economy, the National Economy, the International Economy, and Personal Finance). Content in the Market Economy includes much of what is traditionally described as microeconomics, while content in the National Economy includes much of what is traditionally described as macroeconomics. Content in International Economy includes the reasons for specialization and trade as well as the comparison of the benefits and costs of specialization. Content in Personal Finance includes the role of economic concepts in understanding one's own finances. This course focuses on the Michigan High School Social Studies Content Expectations for Economics: The Market Economy; the National Economy; International Economy; and Personal Finance.

CIVICS

Grades Accelerated 9, 10 - 12

Either this course or the U.S. Government course is required for graduation.

Democratic societies do not function without the participation of informed and responsible citizens. Civic education, therefore, is one of public education's central missions. To participate effectively, American citizens need knowledge about their government and society as well as intellectual skills, participatory skills, and civic dispositions. Acquisition of civic knowledge and skills makes possible a reasoned commitment to those fundamental values and principles essential to the preservation and improvement of American constitutional democracy. This is a highly active student-centered course designed to enhance the student's analysis of the American Political System and the individual citizen's role within it. Through a number of methods of instruction, including individual, small and large group projects; the student will gain a broad base of knowledge about the federal system, political policies and practices. We will accomplish this by studying our Core Democratic Values, the structure of our government, and America's relationship with other nations. Learning activities will include library and Internet research, group presentations, analyzing primary documents, current event and current issue discussions, and journal writing.

This course focuses on the Michigan High School Social Studies Content Expectations for Civics: Conceptual Foundations of Civic and Political Life; Origins and Foundations of Government of the United States of America; Structure and Function of Government in the United States of America; The United States of America and World Affairs; Citizenship in the United States of America; and Citizenship in Action.

UNITED STATES GOVERNMENT

Grades 11-12

Either this course or the Civics course is required for graduation.

Democratic societies do not function without the participation of informed and responsible citizens. Civic education, therefore, is one of public education's central missions. To participate effectively, American citizens need knowledge about their government and society as well as intellectual skills, participatory skills, and civic dispositions. Acquisition of civic knowledge and skills allow students to make well informed decisions in the future and become future leaders in the democratic process. This course will seek to define the concept of government, explore the different forms of government that exist and how it applies to U.S. government. It will also focus on the roles played by elected officials, political parties, the judiciary and electorate in the governing process. Finally, students will explore real-world scenarios to gain a better understanding of their civil rights and liberties. This utilizes the Michigan High School Social Studies Content Expectations for Civics.

This course focuses on the Michigan High School Social Studies Content Expectations for Civics: Conceptual Foundations of Civic and Political Life; Origins and Foundations of Government of the United States of America; Structure and Function of Government in the United States of America; The United States of America and World Affairs; Citizenship in the United States of America; and Citizenship in Action.

SOCIAL STUDIES ELECTIVES

BUSINESS LAW

Grades 11-12

This is a one-trimester course dealing with all aspects of Business Law. Course content will include such topics as: how one's legal rights are enforced, differences between civil and criminal court trials, and law as it relates to business situations. Guest speakers are used to supplement the classroom textbook.

GLOBAL STUDIES A

Grades 10-12

The purpose of this course is to broaden the student's background of political, physical and cultural geography and the consequences of geography in world cultures. Students are expected to learn geography concepts relative to all areas of study and to learn skills necessary in studying geography subject matter. The main goals are to add geography knowledge and geography strategies to the student's ability to solve society's problems.

This portion of this course focuses on the following themes of geography: the physical geography of the globe; comparative religions and philosophies of the world; economic and environmental interdependence; survey of human geography related to Canada, Latin America, Australia, New Zealand, and the Pacific Rim; and current events

GLOBAL STUDIES B

Grades 10- 12

The Social Studies Department recommends earning credit in Global Studies A before taking this course.

The purpose of this course is to broaden the student's background of both political and physical geography and the consequences of geography in world cultures. Students are expected to learn geographic concepts relative to all areas of study and to learn skills necessary in studying geography subject matter. The main goals are to add geographical knowledge and geographical strategies to the student's ability to solve societal problems. The course outline covers the entire planet Earth and its landforms. This portion of this course focuses on the following: survey of human geography related to Europe, Russia, Africa, Asia, and the Middle East; globalization, economic systems, and trade; and current events.

LEADERSHIP/STUDENT COUNCIL

Grades 9-12

Prerequisites: Application, three teacher recommendations and an interview with the Advisers and Executive Board.

Leaders are not born; they are made! In this class we will explore the greater meaning of becoming an effective leader in society. The purpose and goal of this class is to build lifelong leadership skills through a number of activities. This class also acts as the basis for the Grand Ledge High School Student Council. Students will participate in activities such as team building, class discussions and presentations, readings, written assignments, attending leadership conferences and hosting guest speakers. Beyond the Leadership curriculum, this class is also very hands-on. Students will be required to attend a majority of student council events outside of the school day. These include/are not limited to: Homecoming and events, dances, charity events, elections, movie nights and blood drives. Executive Board members and class officers are required to take Leadership all 3 trimesters. Class representatives can take Leadership 1-3 trimesters depending on space availability in the class.

PSYCHOLOGY A

Grades 10 - 12

This course is designed to introduce students to basic principles of human development, to help students to find possible solutions to personal problems by applying psychological principles and theories and to study more efficiently by applying their understanding of the learning processes. This course will also assist students to prepare for their various roles in life, to help develop an appreciation of psychology as a field of scientific knowledge, to expose students to some current popular available literature, and to present student career alternatives. This portion of this course focuses on the following: an introduction, stress and health; infancy and childhood; adolescence; adulthood and old age.

PSYCHOLOGY B

Grades 10-12

The Social Studies Department recommends earning credit in Psychology A before taking this course.

This course is designed to introduce students to basic principles of human development, to help students to find possible solutions to personal problems by applying psychological principles and theories and to study more efficiently by applying their understanding of the learning processes. This course will also assist students to prepare for their various roles in life, to help develop an appreciation of psychology as a field of scientific knowledge, to expose students to some current popular available literature; and to present student career alternatives. This portion of this course focuses on the following: altered states of consciousness; learning principles and applications; theories of personalities; and psychological disorders.

PSYCHOLOGY C

Grades 10-12

The Social Studies Department recommends earning credit in Psychology A before taking this course.

This course is designed to introduce students to basic principles of human development, to help students to find possible solutions to personal problems by applying psychological principles and theories and to study more efficiently by applying their understanding of the learning processes. This course will also assist students to prepare for their various roles in life, to help develop an appreciation of psychology as a field of scientific knowledge, to expose students to some current popular available literature, and to present student career alternatives. This portion of this course focuses on the following: psychology – present and future; body and behavior; therapy and change; and social psychology – individual and group interaction.

SOCIOLOGY A - Research, Social Perspectives, Cultural and Social Structures*Grades 10-12*

This course is designed to get students to think like a sociologist; to use core concepts and theories from the field of sociology to make sense of some of the most pressing issues of our time: culture, socialization, social structure and society, groups and formal organizations. Current events are also integral to the curriculum.

SOCIOLOGY B Social Inequality and Social Institutions*Grades 10-12*

This course is an overview of social inequality and social institutions. Topics include: Deviance and Social Control, Social Stratification, Inequalities of Race and Ethnicity, Inequalities of Gender and Age, The Family and Education. Current events are also integral to the curriculum.

SOCIOLOGY C Political and Economic Institutions, and Social Change*Grades 10-12*

An overview of the major agents of social change including: Political and Economic Institutions, Population and Urbanization, Social Change and Collective Behavior, Privacy and other current topics in Sociology. Current events are integral to the curriculum.

SUPPORT LINK PROGRAM*Grades 10-12*

Students that are interested in the Human Services occupations (teacher, psychologist, social worker, etc.) will want to consider the **LINK Program**. The LINK Program increases awareness of individuals with special needs, the systems and supports that may be necessary for placement in general education classes and the benefits of peer-to-peer support in the least restrictive environment. LINK students support students with ASD in a variety of settings during the school day, under the supervision of a certified teacher. LINK students will be required to submit written daily journals on the LINK website (millep.edublogs.org). LINK students will be required to have passing grades on quizzes, tests, and a final exam, as well as other assignments. Upon successful completion of the class, LINK students will receive an elective Social Studies credit. Interested students should pick up an application from Mr. Karl Wood in the LINK Room. Prospective LINK students must successfully interview with Mr. Karl Wood.

AP SOCIAL STUDIES OPTIONS**ADVANCED PLACEMENT ECONOMICS – Macroeconomics** (1 trimester)*Grades 11-12*

Pre-requisites: Basic Economics or Marketing 1 A&B, and Algebra 2.

Advanced Placement Macroeconomics is a one-trimester, college-level course. Each student is expected to take the AP Macroeconomics Exam that is administered in May. Successful achievement of the AP exam allows the student to earn three hours of college credit.

Macroeconomics will emphasize economic principals as applied to the economy as a whole. Topics discussed will reflect the material included in the booklet, *Economics Microeconomics, Macroeconomics Course Description* from the College Board. Lessons will include an analysis of national income and its components, economic indicators, inflation and unemployment, money and banking, stabilization policies, and the United States and World Trade.

ADVANCED PLACEMENT ECONOMICS – Microeconomics (1 trimester)*Grades 11-12*

Pre-requisites: Basic Economics or Marketing 1 A&B and Algebra 2.

Advanced Placement Microeconomics is a one-trimester, college-level course. Each student is expected to take the AP Microeconomics Exam that is administered in May. Successful achievement of the AP exam allows the student to earn three hours of college credit.

Microeconomics will emphasize economic principles as applied to the individual segments of the economy. The decision-making processes of consumers, business, and government will be analyzed in their roles as participants in a market economy.

ADVANCED PLACEMENT ECONOMICS - Micro and Macro Review and Test Prep (1 trimester)*Grades 11-12*

Pre-requisites: Successful completion of Macroeconomics and Microeconomics.

This course (all 3 trimesters) is designed to cover the material found in a Microeconomic and Macroeconomic course in college. Students who take this course have the opportunity to take the Advanced Placement exam in May and can receive up to 6-8 college credits if they pass this exam. (Each college or university determines credits received.)

ADVANCED PLACEMENT PSYCHOLOGY A, B & C

Grades 10-12

Pre-requisites: Successful completion of Psychology A, B or C with a B or better, or GPA of 3.6 or higher in ELA and Social Studies courses (subject to teacher oversight)

This Advanced Placement Psychology course is designed to give students a college-level experience. The course will involve nightly reading assignments as critical thinking questions, vocabulary and unit exams. In addition, there will be frequent reading quizzes and unit exams involving both multiple choice and free-response components.

The course will cover those topics generally discussed in a college level introductory psychology course. These topics include: social psychology, history, careers, theories, research methods, biological bases of behavior, sensation/perception, consciousness, learning, memory, cognition, development, personality, stress, disorders and treatment.

ADVANCED PLACEMENT UNITED STATES HISTORY A

Grades 10-12

Prerequisites: Any one of the following: 1) An "A" or "A-" in both the A and B portions of 9th Grade United States History or American Studies; 2) A cumulative G.P.A. of 3.5 or higher; 3) Recommendation by one of the student's social studies or English teachers. *Students must complete one of these in order to graduate: (1) both 9th Grade U.S. History A and 9th Grade U.S. History B -OR- (2) both American Studies A and American Studies B -OR- (3) all A.P. U.S. History courses (A, B, and C).*

This course is designed to prepare students for the College Board's Advanced Placement Exam for United States History. It is similar to a freshman-level survey course in United States History and covers material from 1492 to present. Course activities include extensive reading, extensive writing and class discussions. Multiple choice and essays examinations will be used to assess student mastery of material. At the conclusion of the course, the College Board's Advanced Placement Exam for United States History exam will be offered, giving students the opportunity to earn college credit.

This portion of this course focuses on the following eras of U.S. History as defined in Michigan's social studies content: Era 1, Beginnings to 1620; Era 2, Colonization and Settlement, 1585-1763; Era 3, Revolution and the New Nation, 1754-1800s; and Era 4, Expansion and Reform, 1792-1861.

ADVANCED PLACEMENT UNITED STATES HISTORY B

Grades 10-12

Prerequisites: Credit earned in Advanced Placement U.S. History A. *Students must complete one of these in order to graduate: (1) both 9th Grade U.S. History A and 9th Grade U.S. History B -OR- (2) both American Studies A and American Studies B -OR- (3) all A.P. U.S. History courses (A, B, and C).*

This portion of this course focuses on the following eras of U.S. History as defined in Michigan's social studies content: Era 4, Expansion and Reform, 1792-1861; Era 5, Civil War and Reconstruction, 1850-1877; Era 6, the Development of an Industrial, Urban, and Global United States, 1870-1930; and the first portion of Era 7, The Great Depression and World War II, 1920-1945; and Era 8, Post-World War II United States, 1945-1989.

ADVANCED PLACEMENT UNITED STATES HISTORY C

Grades 10-12

Prerequisites: Credit earned in Advanced Placement U.S. History B. *Students must complete one of these in order to graduate: (1) both 9th Grade U.S. History A and 9th Grade U.S. History B -OR- (2) both American Studies A and American Studies B -OR- (3) all A.P. U.S. History courses (A, B, and C).*

This portion of this course focuses on the following eras of U.S. History as defined in Michigan's social studies content: Era 8, Post-World War II United States, 1945-1989 and Era 9, America in a New Global Age.

ADVANCED PLACEMENT WORLD HISTORY, MODERN

Grades Accelerated 10, 11-12

AP World History: Modern is an introductory college-level modern world history course. Students will cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and

organization, and technology and innovation. Successful completion of the course satisfies the core social studies world history requirement for graduation.

<p style="text-align: center;">Grand Ledge Public Schools <u>HIGH SCHOOL VISUAL ARTS PROGRAM</u></p>
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ART 1

Grades 9-12

This one-trimester course is considered the “survey” to all fine art courses and a prerequisite for several art classes. Art 1 is designed to expand on the development of the 2-D and 3-D art forms that were explored at the middle school. An in-depth study of art forms will be enhanced by incorporating drawing and composition principles, as well as historical, stylistic, and cultural perspectives related to the visual arts. Individuality, creativity, and problem solving will be “key” with lessons designed to continue practicing and building upon design principles, techniques and combinations of the mediums. The course goals:

1. Produce accurate and expressive 2-dimensional art products using compositional principles.
2. Produce accurate and expressive 3-dimensional art products
3. Distinguish between historical, stylistic and cultural differences in the visual arts.

A \$10.00 lab fee will be required for students enrolled in the course.

CERAMICS 1

Grades 9-12

This is a one-trimester course in ceramics that will explore the basic techniques of making pottery from clay. This course will include hand-built techniques such as pinch, coil, and slab. Wheel throwing techniques will be introduced. Basic glaze techniques will be explored. A \$15.00 lab fee will be required for students enrolled in this course.

CERAMICS 2

Grades 9-12

Prerequisite: Successful completion of Ceramics 1

This is a one-trimester course. This course is designed for the serious art student who has a strong interest in ceramics. Throughout this course you will expand your creativity and skills, as you begin to create quality artwork. Projects will continue to be graded on aesthetics, technical skill, and craftsmanship, but will also have greater emphasis on communicating ideas and representing meaning through art. Students will present their series of work to the class. Students will create a digital portfolio of their work and include an artist statement. A lab fee of \$15 will be required for students enrolled in the course.

DRAWING

Grades 9-12

Prerequisite: Successful completion of Art 1 or Advanced Architecture

This is a one-trimester course in basic drawing covering the elements and principles of design. Many projects are based on drawing from observation to create representational art. Students will use a variety of art mediums, including: pencil, colored pencil, charcoal, and ink. This is a portfolio preparation course for the serious art student. A \$5.00 lab fee will be required for students enrolled in the course.

METAL & JEWELRY DESIGN 1

Grades 10-12

This is a one-trimester course exploring the basic metal and jewelry construction, using both cold and hot connections. Mediums used include sheet metal, wire, and casting metals. Students will apply organizational principles and functions to solve visual art problems. The student will intentionally use art materials and tools effectively to communicate ideas. Lab fees range from \$15-25 depending on metals used and the size of the projects.

METAL & JEWELRY DESIGN 2

Grades 10-12

Prerequisites: Successful completion of Metal & Jewelry Design I

This is a one-trimester course in the study of advanced metal art and jewelry design techniques. Casting processes, stone shaping and setting will be explored. Students will research historical metal artists and jewelry processes. Students will propose project ideas. Proposals will include a written process statement, sketches of designs, and images gathered from research. Students will present their series of work to the class. Students will create a digital portfolio of their work and a written artist statement. Lab fees range from \$15-\$25 depending on metals used and size of projects.

PAINTING & COLOR COMPOSITION

Grades 11-12

Prerequisites: **Prerequisites: Successfully completed Art 1 & Drawing or Architecture\Drafting. (Students need to have a basic understanding of Drawing techniques and Color Usage)**

This is a one-trimester course exploring basic painting techniques. Color theory, color usage, and color psychology are studied. Mediums explored in the course will be watercolor, acrylic, and tempera paint. Oil paint may be explored if the student chooses. Traditional and modern painting techniques will be researched. A \$15.00 lab fee will be required for students enrolled in this course to cover the cost of canvas panels, stretched canvas forms, and painting supplies. (10th graders are only allowed with prior approval from the art department chair).

PRINTMAKING

Grades 9-12

This is a one-trimester course with an historical approach in the development of the printmaking medium. The four main printmaking processes will be introduced: relief printing, intaglio, lithography, and silkscreen printing. This course will emphasize design principles and drawing. Students will analyze the use of commercial art to expressive master works, including how technology impacts art in everyday life. A \$10.00 lab fee will be required for students enrolled in this course.

SCULPTURE

Grades 9-12

This is a one-trimester course exploring the basic sculpture techniques. Materials used will include wire, plaster, plastics, clay and other varied mediums. Research will be required on the development of sculpture and the historical impact of techniques and artists. Students will apply organizational principles and functions to solve specific arts problems. A \$10 lab fee will be required for students enrolled in this course.

STUDIO ART

Grades 10-12

Prerequisites: Successful completion of Art 1 and three other art electives or approval from Art Department Chairperson

This is a one-trimester course. This course is designed to give students an in-depth study of a chosen area of art. Students will research artists and propose project ideas. However, thematic development within an area of interest will be in the form of guided lessons. Students will present their series of works of art to the class. Students will create a digital portfolio of their work and a written artist statement. Lab fees will vary based on the chosen area of study (\$15.00 to \$25.00). It is possible for students to take a maximum of five trimesters of studio art in preparation for their art portfolio.

SPECIAL EDUCATION INDEX OF COURSE OFFERINGS

The Special Education Program at Grand Ledge High School is proud to offer a full continuum of courses, many of which meet Michigan Merit Curriculum Standards. Please note: Students are placed into the following classes based on IEP team decisions taking into account the student's level of academic performance.

Courses meeting MMC requirements:

ENGLISH LANGUAGE ARTS

RESOURCE ENGLISH 1A & B *2 MMC English Credits (2 Trimesters)

Students who receive Special Education support are eligible to complete English 1A & B to fulfill the English 9A & B course requirements.

It is required that English 1A is taken before English 1B.

RESOURCE ENGLISH 2A & B *2 MMC English Credits (2 Trimesters)

Students who receive Special Education support are eligible to complete English 2A & B to fulfill the English 10A & 10B course requirements.

It is recommended that English 2A is taken before English 2B.

RESOURCE ENGLISH 3A & B *2 MMC English Credits (2 Trimesters)

Prerequisite: Successful completion of English 2 A & B or English 10A & B

Students who receive Special Education support are eligible to complete English 3A & B to fulfill the English 11A & B course requirements.

RESOURCE ENGLISH 4A & B *2 MMC English Credits (2 Trimesters)

Prerequisite: Successful completion of English 3 A & B or English 11A & B.

Students who receive Special Education support are eligible to complete English 4A & B to fulfill the English 12A & B course requirements.

SAT SKILLS

Grade 11

Prerequisite: Placement based on PSAT scores

SAT Skills prepares students for the redesigned SAT, developing skills assessed by the SAT and increasing knowledge and confidence in testing. It is a trimester-long course that consists of three individual rotations: math, English, and math/English graphics. Each rotation will last approximately three weeks. Students will learn numerous strategies for improving test scores (both standardized and non-standardized tests), practice and correct actual SAT questions, and experience a full-length test in an authentic environment with subsequent test corrections/explanations. Teachers will model best practices through direct instruction, sample problems, labs, interactive activities, etc.

SEMINAR 1

Grade 12

This class is an elective credit designed for seniors to navigate the post-secondary process. Topics include Study Skills, Careers, Post-Secondary Options, Scholarships & Financial Aid, Virtual College Tours, and Job Interviewing.

MATH

RESOURCE ALGEBRA 1 A

Key Concepts: Foundations for Algebra, Equations, Inequalities, Functions, Linear Functions, Systems of Equations and Inequalities

Next Course in the Sequence: Algebra 1B

RESOURCE ALGEBRA 1 B

Prerequisites: Passing grade in Resource Algebra 1A or Teacher permission

Key Concepts: Exponents and Polynomials, Factoring Polynomials, Quadratic Functions and Equations, Data Analysis, Exponential and Radical Functions, Rational Functions and Equations

RESOURCE GEOMETRY A

Prerequisite: Successful completion of Algebra 1B

Key Concepts: Foundations for Geometry, Geometric Reasoning, Parallel & Perpendicular Lines, Triangle Congruence, Properties & Attributes of Triangles, Polygons & Quadrilaterals

RESOURCE GEOMETRY B

Prerequisites: Passing grade in Resource Geometry 1A or Teacher permission

Key Concepts: Similarity, Right Triangles & Trigonometry, Perimeter, Area and Circumference.

RESOURCE ALGEBRA 2 A

Prerequisite: Successful completion of Geometry B

Key Concepts: Functions, Explicit and Recursive Formulas, Direct and Indirect Variation, Linear Graphs, Systems, Matrices

RESOURCE ALGEBRA 2 B

Prerequisites: Passing grade in Resource Algebra 2A or Teacher Permission

Key Concepts: Powers and Exponents, Quadratic Functions and Polynomial Functions, Exponential and Logarithmic Functions, Rational and Radical Functions, Piecewise Functions, Sequences and Series, Trigonometric Functions, Graphs and Identities, Rational and Radical Functions, Piecewise Functions, Sequences and Series, Trigonometric Functions, Graphs and Identities.

Certification of Completion Classes:

The classes listed below do not meet MMC requirements for graduation; however, they do build students' independence, self-esteem, self-determination while preparing students for the world of work, trade or vocational programs, and/or a 2-year community college experience.

Self-Determination 1/Vocational Integration

1 Elective Credit per Trimester (1-2 Trimesters)

Through activities and experiences that are relevant to the real world, this course offers students appropriate training for adult roles in the community. This class will help students understand the world of work and prepare them with experiences and job skills that allow them independence needed to function on the job.

English Language Arts

ELA 1: Fundamentals of Reading & Writing *1 Academic Credit per Trimester (3 Trimesters)

This course is designed to meet the Michigan extended grade level content expectations for students with disabilities. The class will teach students the very basic elements in reading and writing. The goal is for the students to master the fundamental skills and concepts required for successful completion of higher-level reading and writing. This class will teach survival reading and writing skills necessary for independence. It will also provide students with tools for decoding, word recognition, comprehension, and fluency along with basic writing, speech, and listening skills.

ELA 2: Linguistics *1 Academic Credit per Trimester (1-3 Trimesters)

This course is highly recommended for students who have been identified as having a Learning Disability in Basic Reading.

Students will improve basic decoding skills and reading fluency through instruction in the Language! Reading Intervention Program. This program focuses on phonetic awareness, vocabulary, spelling, and basic writing skills. Students will also be exposed to a variety of different genres when reading and writing.

ELA 3: Reading & Writing Skills *1 Academic Credit per Trimester (1-3 Trimesters)

This course is designed to help students improve reading comprehension and written expression skills through traditional English Language Arts activities. The curriculum, will address verbal reasoning skills, vocabulary development, locating information, following oral and written directions, parts of speech, and sentence development. A variety of literature will be presented, and students will discuss different perspectives, learn practical and descriptive writing, and write for a variety of purposes and audiences. Speaking skills will be addressed through interactive lessons.

ELA 4: Vocational English (for the Workplace) *1 Academic Credit per Trimester (1-3 Trimesters)

This course is available for students who have successfully completed ELA 3 and/or for those who are ready to focus on applying language skills in preparation for the world of work. Students will participate in activities to improve skills in writing letters, building resumes, completing forms, and filling out applications. Students will read and access the Internet to locate jobs, technical information, and selected publications providing information applicable to daily and vocational life. Students will learn and use appropriate communication skills for getting and maintaining a job.

Writing Strategies 1* Academic Credit (1 Trimester Class)

Writing strategies is open to 10th and 11th grade students who need additional exposure to writing strategies in order to be more independent in English 10 and English 11 courses. The class will focus on imbedding writing strategies into current curricula to enable students to write a variety of essays within their general education classes.

Math

Fundamentals of Math

This course is designed to meet the Michigan extended grade level content expectations for students with disabilities. The class will teach students the very basic elements in math. Students will learn and master the foundational skills and concepts required for advancing to higher-level math concepts.

Basic Math Skills

This course is designed to teach students basic math concepts and skills while developing a strong understanding of place value, inverse relationships between math operations, basic geometry, measurement, and data and probability. The goal is for students to master the foundational skills and concepts in order to advance to a higher-level math class.

Consumer Math

This course is designed to teach students consumer math skills for use in adult life. The focus of the class will be on concepts relating to earning and spending money. Selected topics will be explored such as buying clothes, buying and preparing food, managing a household, buying and maintaining a car, traveling, home improvement, budgeting, investing, and paying taxes. Students should have basic math skills and be able to use a calculator.

Pre-Algebra

The course is designed to provide students with opportunities to learn, use, and apply foundational mathematical skills, vocabulary, and concepts in order to prepare them for advancement into higher-level math courses such as Algebra 1 and Geometry. Students will increase understanding and independence in solving problems with one or more variables and story problems. The skills learned through this course can be applied to advanced science classes as well.

Science

Fundamentals of Science

This course is designed to meet the Michigan extended grade level content expectations for students with disabilities. In this course, students will study key concepts in earth, physical, and life sciences while developing thinking skills needed to understand the world in which they live. Students will participate in scientific investigations and develop an awareness of how science influences their lives. This course will prepare students for future science classes that explore each of the science areas more in-depth.

Earth Science

In this course, students will focus their studies on the features of the earth's surface, changes to the earth over time, atmosphere and weather conditions, and the solar system and its influence. Students will further develop their science inquiry and reasoning skills.

Biology

In this course, students will focus their studies on life science. Students will learn about the structures and functions of cells, the organization of life, heredity, evolution, and ecosystems. Students will further develop their science and inquiry and reasoning skills.

Physical Science

In this course, students will focus their studies on physical science and how science influences many home and work environments. Students will learn about matter and energy as well as changes in matter. Students will further develop their science inquiry and reasoning skills.

Social Studies

Fundamentals of Social Studies

This course is designed to meet the Michigan extended grade level content expectations for students with disabilities. The class will teach students the very basic elements in social studies. Students will learn map skills, geography, the history of Michigan and the Great Lakes, the history of Native Americans, and be introduced to important people and events in world history. They will also learn about their government, their roles as citizens within society, and how economics affects their lives.

Michigan History (A & B)

In this course, students will further their understanding of major events in Michigan leading up to statehood. Students will study the history of Michigan as a state as well as Michigan's economy, geography, government, and influence on the nation and the world.

Students will increase their understanding of their role as Michigan citizens.

9th Grade United States History (A & B)

In this course, students will further their understanding of major events in the United States from pre-colonial times to present day. Students will study the history of the United States as well as its geography, economy, government, and influences on the world. Students will increase their understanding of their role as citizens of the US.

10th Grade World History (A & B)

In this course, students will further their understanding of major events in the world from the beginning to current times. Students will study the history of the world as well as its geography, economy, governmental styles, and influence. Students will increase their understanding of their role as citizens of the world.

WORK BASED LEARNING

Student Based Enterprise

Elective Credit – Number of credits will be determined on an individual basis

This class offers a pre-vocational curriculum, which is designed to assess work-readiness skills, interests, strengths, and barriers. The focus of instruction is to prepare the student with appropriate work habits with the expectation to assist in finding future employment. (STUDENTS DO NOT LEAVE CAMPUS)

Work Based Learning (WBL) Seminar

Elective Credit – Number of credits will be determined on an individual basis

This class offers a pre-vocational curriculum, which is designed to assess work-readiness skills, interests, strengths, and barriers. The focus of instruction is to prepare the student with appropriate work habits with the expectation to assist in finding future employment.

Work Based Learning (WBL) Placement (To be taken concurrently with Work Based Learning Seminar) Elective Credit – Number of credits will be determined on an individual basis.

Certificate-of-Completion students who are eligible to participate in unpaid or paid work experiences will prepare for on-the-job site placement with instruction and support from special education staff. Upon being approved for placement, they will enroll in both the WBL Placement class and the WBL Seminar. These students will have an opportunity to be placed in unpaid positions first in order to learn job skills and experience real-world responsibilities and consequences. Paid work opportunities are offered to students on a case-by case basis depending on their level of success in at least 1 unpaid setting and availability of placements. Work-Based Learning opportunities need to be written into the students' IEPs. Students will have a specific job-training plan that will be reviewed every 30 days to assess growth and to determine new areas that need development.

SOCIAL STRATEGIES

Fundamental Social Strategies

1 Elective Credit per Trimester (1-3 Trimesters)

This class primarily addresses the curriculum in Social Strategies with an emphasis on effective communication. Employability, daily living skills, and community involvement will be addressed through role-playing, games, and group social outings for community-based instruction, as funding is available.

Social Strategies for Females

1 Elective Credit per Trimester (1-3 Trimesters)

This course is designed to empower female students with skills to make the best choices during challenging times. Units of instruction are based on the premise that students gain personal power when they understand who they are, set goals, and make productive choices. Through activities and experiences that are relevant to the real world, this course offers students safe opportunities to discuss difficult topics and develop interpersonal skills needed to be successful.

Social Strategies 1A for Males – Focus on Self

1 Trimester Elective Credit

This course is designed to help male students who struggle socially, emotionally, and/or behaviorally to improve their level of social skills. Students will be exploring and identifying the areas they struggle with the most within human interactions. Students will spend time reflecting on how they interact with other people. Covered Topics: anger; anger triggers; consequences; the human brain; human identity; building a positive self-image; and assertive, passive, and aggressive communication. A class novel linked to the themes discussed will be read during this

course. Students will be asked to create projects, journal daily, share their work, read with classmates, and be involved in class discussions. Student participation is a must.

Social Strategies 1B for Males – Focus on Positive Social Interactions

1 Trimester Elective Credit

This course is designed to help male students who struggle socially, emotionally, and/or behaviorally to improve their level of social skills. Students will be exploring how to resolve issues within relationships, friendship skills, accepting responsibility, and effective communication strategies. A class novel linked to the themes discussed will be read during this course. Students will be asked to create projects, journal daily, share their work, perform skits, and be involved in class discussions. Student participation is a must.

Social Strategies 1C for Males – Focus on Positive Social Interactions, Continued

1 Trimester Elective Credit

This course is designed to help male students who struggle socially, emotionally, and/or behaviorally to improve their level of social skills. This course is a continuation of Social Strategies 1B. Students will continue to explore resolving issues within relationships, friendship skills, accepting responsibility, and effective communication strategies. Additionally, students will work on transitional activities such as filling out job applications, interviewing for jobs, and positive summer activities within the community. A class novel linked to the themes discussed will be read during this course. Students will be asked to create projects, journal daily, share their work, perform skits, and be involved in class discussions. Student participation is a must.

MMC ELECTIVES

Academic Success

1 Elective Credit per Trimester (1-3 Trimesters)

This course is designed for students who desire to develop academic independence and responsibility in meeting educational demands. Through this class, students will work to become proficient in taking personal responsibility while developing consistency in classroom performance and learning about themselves as learners. Course may be broken down in to content areas to support remedial skills needed in core academic classes. Course may be taken multiple times.

Linguistics

1 Elective Credit per Trimester (1-3 Trimesters)

This course is highly recommended for students who have been identified as having a Learning Disability in the following areas: Basic Reading, Reading Comprehension or Reading Fluency.

Students will improve basic decoding, comprehension and fluency skills in this fun class. Language! Live will be one of the methods of instruction. This is an interactive internet reading program which also includes teacher directed learning; for further information please go to the following link: <http://www.voyagersopris.com/info/language-live/index.html>. In addition, students will be using teacher-made materials as well as have other learning opportunities deemed effective by the teacher. Students learn in fun ways to improve their reading abilities.

Writing Strategies 1* Academic Credit (1 Trimester Class)

Writing strategies is open to 10th and 11th grade students who need additional exposure to writing strategies in order to be more independent in English 10 and English 11 courses. The class will focus on imbedding writing strategies into current curricula to enable students to write a variety of essays within their general education classes.

Grand Ledge Public Schools <u>CAREER AND TECHNICAL EDUCATION PROGRAMS</u>
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Career and Technical Education (CTE) programs are designed to prepare youth for a broad range of employment and training services and are offered under the guidance of vocationally certified teachers, counselors, and cooperative education coordinators. Programs are offered both at Grand Ledge High School and off-campus through Eaton RESA.

CTE PROGRAMS OFFERED AT GRAND LEDGE HIGH SCHOOL*

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| <p><u>Business Accounting</u> – pg. 11</p> <ul style="list-style-type: none"> . Accounting 1 A & B . Business Finance . Accounting 2 A & B <p><u>Business Management</u> – pg. 12</p> <ul style="list-style-type: none"> . Introduction to Business A & B <p><u>Marketing</u> – pg. 12</p> <ul style="list-style-type: none"> . Marketing 1 A & B . Marketing 2 A & B <p><u>Design Engineering</u> - pg. 32</p> <ul style="list-style-type: none"> • Beginning Design Engineering 1A & 1B • Advanced Design Engineering 1A & 1B | <ul style="list-style-type: none"> • Advanced Design Engineering 2A & 2B <p><u>Child Development</u> – pg. 21</p> <ul style="list-style-type: none"> . Parenting & Child Development A & B <p><u>Architectural Drafting</u> – pg. 36</p> <ul style="list-style-type: none"> . Beginning Architecture, A & B . Advanced Architecture 1 A & B . Advanced Architecture 2 A & B <p><u>Technical Drafting</u> – pg. 36 & 37</p> <ul style="list-style-type: none"> . Beginning Drafting A & B . Technical Drafting 1 A & B . Technical Drafting 2 A & B . Technical Drafting 3 A & B |
|---|---|

**Students who successfully complete all courses within a specific program are eligible to apply for articulated college credit. Please see the program instructor for more information.*

Co-operative Work Based Learning (Co-op)

Grades

11-12

Elective Credit – Number of credits will be determined on an individual basis.

Students who have successfully completed a CTE program (either at GLHS or the Eaton RESA Career Preparation Center) and have a career related work-site placement, may apply for co-op. Applicants will be assessed for eligibility based on academic performance (passing all classes and on track to meet graduation requirements), attendance, staff recommendations, and Educational Development Plan progress (must be updated for current school year and reflect current career goals/plans). Students are monitored by a vocationally certified teacher and are evaluated based on work-site performance, academic assignments, and attendance logs (time-sheets). For more information, please contact Kristin Dykstra at kdykstra@eatonresa.org

All Career and Technical Education programs follow the district's policies that no person shall be discriminated against in matters of employment or enrollment on the basis of race, color, national origin, gender/sex, sexual orientation, age, disability, height, weight or marital status in its programs, services or activities. Lack of English skills will not be a barrier to admission and participation in CTE programs.

CTE PROGRAMS OFFERED AT EATON RESA CAREER PREPARATION

The Eaton RESA Career Preparation Center provides opportunities for juniors and seniors to take in-depth career classes that are held off-campus at the locations listed below. The classes are two hours in length and are a part of the regular school day. In addition to receiving two high school credits per trimester, successful students will have an opportunity to earn college credits (see your high school counselor or Mrs. Dykstra, Career Development Coordinator for more information). All textbooks, related materials, and bus transportation to and from the high school are provided free of charge .

Program Offerings

Arts and Communications

- Digital Media and Design (LCC Main)

Business, Management, Marketing & Technology

- Business Academy (Davenport University)
- Digital Media & Design (LCC Main)
- Game Design & Programming (Davenport)
- Insurance & Risk Management (Farm Bureau through Olivet College)
- Computer Security (Davenport University)

Human Services

- Criminal Justice (LCC West)
- Law Enforcement (LCC West)

Engineering/ Manufacturing/Industrial Technology

- Automotive Technology (LCC West)
- Heavy Equipment Operation and Repair (AIS)
- Mechanics and Robotics (LCC West)
- Mechanical Engineering/Manufacturing (LCC West)
- Welding Technology (LCC West)

Health Sciences

- Health Technology (LCC Main)
- Health Information Technology (Davenport)
- Sports Medicine (LCC Main)

Natural Resources and Agrisciences

- Animal Science & Zoo Management (Potter Park)

Career Preparation Center Scheduling Notes:

- Morning session students must arrive at the high school by approximately 6:40 a.m. to catch the bus.
- Afternoon session students must take a virtual 3rd hour GLHS course to complete their schedules.
- Second year options for the following programs are available based on enrollment: Criminal Justice, Law Enforcement, Automotive Technology, Welding Technology, Health Technology, Heavy Equipment Operation and Repair.

For more information and program descriptions, please contact Kristin Dykstra at kdykstra@eatonresa.org, call 517-925-5419 or go to: <http://www.eatonresa.org/services/career-and-technical-education/>

NOTICE OF NONDISCRIMINATION: Eaton RESA does not discriminate on the basis of race, color, national origin, sex, (including sexual orientation and transgender identity) disability, age, religion, height, weight, marital or family status, military status, ancestry, genetic information, or any other legally protected category, (collectively, “Protected Classes”), in its programs and activities, including employment opportunities. In addition, arrangements can be made to ensure that the lack of English language proficiency is not a barrier to admission or participation. Civil Rights Coordinators are located at 1790 E. Packard Hwy, Charlotte Michigan to handle inquiries regarding the nondiscrimination policies and grievance procedures. Telephone (517) 543-5500.

The following people have been designated to handle inquiries regarding the non-discrimination policies:

Inquiries related to discrimination on the basis of disability should be direct to:				All other inquiries related to discrimination should be directed to:
Executive Director of Special Services Section 504 Coordinator Grand Ledge Public Schools Central Office, Room 105 220 Lamson Street Grand Ledge, MI 48837 517-925-5411				Assistant Superintendent for Human Resources Grand Ledge Public Schools Central Office, Room 104 220 Lamson Street Grand Ledge, MI 48837 517-925-5405

For general information about the programs, contact:

Grand Ledge High School Student Services – 517-925-5900

Blake Wegenke, Assistant Principal and Administrator for Career & Technical Education Programs – 517-925-5816

CTE PROGRAMS OFFERED OUT OF COUNTY

Clinton County RESA and Ingham ISD offer CTE program options to Grand Ledge juniors and seniors, *if there is enrollment space open after their student registration ends. ***Transportation is the student's responsibility.*** For more information, please see your high school counselor or Mrs. Dykstra.

APPENDIX C

NOTICE OF NONDISCRIMINATION

It is the policy of the Grand Ledge Public Schools District that no person shall be discriminated against in matters of employment or enrollment on the basis of race, color, national origin, gender/sex, sexual orientation, age disability, height, weight or marital status in its programs, services or activities. The following people have been designated to handle inquiries regarding the non-discrimination policies

Inquiries related to discrimination on the basis of disability should be directed to:

Executive Director of Special Services Section 504 Coordinator
Grand Ledge Public Schools
Central Office, Room 104
220 Lamson
Grand Ledge, MI 48837
517-925-5411

Direct all other inquiries related to discrimination to:

Assistant Superintendent for Human Resources
Grand Ledge Public Schools
Central Office, Room 104
220 Lamson
Grand Ledge, MI 48837
517-925-5406

GRIEVANCE PROCEDURES

For

Title VI of the Civil Rights Act of 1964

Title IX of the Education Amendment Act of 1972

Section 504 of the Rehabilitation Act of 1973

Age Discrimination Act of 1975

Title II of the Americans with Disability Act of 1990

Section I

Any person believing that the Grand Ledge Public Schools or any part of the school organization has inadequately applied the principles and/or regulations of (1) Title VI of the Civil Rights Act of 1964, (2) Title IX of the Education Amendment Act of 1972, (3) Section 504 of the Rehabilitation Act of 1973, (4) the Age Discrimination Act of 1975, and (5) Title II of the Americans with Disability Act of 1990 may bring forward a complaint, which shall be referred to as a grievance to:

Assistant Superintendent for Human Resources
Grand Ledge Public Schools
Central Office, Room 104
220 Lamson
Grand Ledge, MI 48837
(517) 925-5406

Section II

The person who believes a valid basis for grievance exists shall discuss the grievance informally and on a verbal basis with the Civil Rights Coordinator, who shall in turn investigate the complaint and reply with an answer within five (5) business days.

If the complainant feels the grievance is not satisfactorily resolved, they may initiate formal procedures according to the following steps.

Step 1

A written statement of the grievance signed by the complainant shall be submitted to the local Civil Rights Coordinator within five (5) business days of receipt of answers to the informal complaint. The coordinator shall further investigate the matters of grievance and reply in writing to the complainant within five (5) business days.

Step 2

A complainant wishing to appeal the decision of the local Civil Rights Coordinator may submit a signed statement of appeal to the Superintendent of Schools within five (5) business days after receipt of the Coordinator's response. The Superintendent shall meet with all parties involved, formulate a conclusion and respond in writing to the complainant within ten (10) business days.

Step 3

If unsatisfied, the complainant may appeal through a signed, written statement to the Board of Education within five (5) business days of receiving the Superintendent's response in Step 2. In an attempt to resolve the grievance, the Board of Education shall meet with the concerned parties and their representative within forty (40) days of the receipt of such an appeal. A copy of the Board's disposition of the appeal shall be sent to each concerned party within ten (10) days of this meeting.

Anyone at any time may contact the U.S. Department of Education/Office for Civil Rights for information and/or assistance at (216) 522-4970. If the grievance has not been satisfactorily settled, further appeal may be made to the Regional U.S. Department of Education, Office for Civil Rights, 600 Superior Avenue East, Bank One Center, Suite 750, Cleveland, OH 44114-2611.

Inquiries concerning the nondiscriminatory policy may be directed to the Director, Office for Civil Rights, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202.

The local Coordinator, on request, will provide the complainant with a copy of the district's grievance procedure and investigate all complaints in accordance with this procedure.

A copy of each of the Acts and the regulations on which this notice is based may be found in the Civil Rights Coordinator's office.



Grand Ledge High School MMC Graduation Requirements Checklist



Name _____

Graduation Year _____

- ☐ Algebra 1A
 - ☐ Algebra 1B
 - ☐ Geometry A
 - ☐ Geometry B
 - ☐ Algebra 2A
 - ☐ Algebra 2B
 - ☐ Algebra 2C
 - ☐ (12th grade math experience) _____
 - ☐ (12th grade math experience) _____
- Examples include: Consumer Ed, Accounting, Business Finance, Marketing 2, Visual Basic, Drafting, Physics, Career Prep Center, or any math course beyond Algebra 2.

- ☐ Biology A
- ☐ Biology B
- ☐ Chemistry A, Physics A or Physical Sci. C/P
Regular or Conceptual
- ☐ Chemistry B, Physics B or Physical Sci. C/P
Regular or Conceptual
- ☐ Additional Science credit _____
- ☐ Additional Science credit _____

- ☐ World History A
- ☐ World History B
- ☐ Basic Economics (or Marketing 1 A&B)
- ☐ Civics (or US Government)
- ☐ U.S. History A (or APUSH)
- ☐ U.S. History B

- ☐ English 9A
- ☐ English 9B
- ☐ English 10A
- ☐ English 10B
- ☐ English 11A
- ☐ English 11B
- ☐ Brit Lit A/English 12A (or AP English)
- ☐ Brit Lit B/English 12B

- ☐ PHW Health
- ☐ PHW Phys. Ed or Waiver _____

- ☐ Visual, Performing, Business, Effective Living or Practical Art
- ☐ Visual, Performing, Business, Effective Living or Practical Art

- ☐ Foreign Language 1A
- ☐ Foreign Language 1B
- ☐ Foreign Language 2A
- ☐ Foreign Language 2B

Notes:

New Course Additions for 2022-2023

Freshman Seminar

1 Elective Credit per Trimester (1-3 Trimesters)

Each year, a large percentage of students struggle with the transition from middle school to high school. This struggle continues in their 10th, 11th, and 12th grade years. By identifying students that struggle with how to perform as students in 8th grade, we can begin working with them when they enter high school in an effort to help them be more successful. This class will be fluid from trimester to trimester based on need.

AP World History: Modern

This Advanced Placement course meets Michigan world history and geography standards era 4, 5, 6, and 7, along with contemporary global issues 1-4. It meets AP standards from 1200-present day through historical skills. It follows six themes: humans and the environment, cultural development/interaction, governance, economic systems, social interactions/organization, and technology/innovations.

LGBTQIA+ Literature and History

LGBTQIA+ Literature and History is an elective English course. This class will focus on LGBTQIA+ texts, people, history, and analysis from the ancient world into the modern day. The course will explore these topics in a global, regional, and local context as it pertains to different cultures, themes, and more. Students will discover themes that relate, examine, and analyze the LGBTQIA+ community, topics, conflicts, history, and culture. Readings will include short stories, poetry, novels, articles, and drama. Writing will also be a routine part of the course, including analytical essays, reflective journals and responses, research, and more. The course is aligned to ELA Common Core Standards

Algebra 1C

The course will address linear functions, systems of linear equations including applications, polynomial operations including applications, and quadratic functions and equations including applications. It serves as a way for struggling students to gain a better understanding of the essential learnings from Algebra 1A and 1B by providing them with additional time and practice necessary to master these concepts so they have the requisite skills to be successful in later required math courses. The class is designed for students who have not shown consistent proficiency in essential learnings in Algebra 1A and 1B. Algebra 1C may be substituted for Algebra 1A or 1B toward the Algebra 1 graduation requirement.

Pre Algebra

This course is designed to students who are missing essential skills for high school algebra, as indicated by their Delat Math and NWEA scores. Enrollment will be based on these scores and teacher recommendations, and students will learn to solve multistep linear equations, find the number of solutions to linear equations in one variable, find the equation of a line, find equivalent numerical expressions using properties of integer exponents, and solve nonlinear equations using square roots and cube.

Distance Learning Electives

The following courses are offered in the distance learning format only.

9th Grade:

Distance Learning Support: This course will teach the roles and responsibilities of being a Grand Ledge Distance Learning Student. Students will evaluate progress in the form of grades, attendance, and behavior expectations. Students will also develop strategies for organizing materials both physical (pencil paper) and online platforms. Finally, they will prioritize communication with teachers and parents to create a strong support system.

Study Skills: This course is designed for students who desire to develop academic independence and responsibility in meeting educational demands. Through this class, students will work to become proficient in taking personal responsibility while developing consistency in classroom performance and learning about themselves as learners. Courses may be broken down into content areas to support remedial skills needed in core academic classes.

Speech: This course will teach students how to plan, organize (outline), and present speeches in each of the three common public speaking formats; informative, special occasion, and persuasive. A student's ability to speak confidently in public will be improved through self-reflection and participation in a wide variety of public speaking experiences. Speeches may include but are not limited to personal narrative, process, expository, special occasion, persuasive, extemporaneous, one-on-one interviews, and a mock job interview. In addition, this course covers the basics of intrapersonal and interpersonal communication.

Current Events: This course will provide students with the opportunity to discuss, understand, and explore local, national, international, economic and social issues. Topics will vary depending on the current news. Students will be challenged to defend their opinions on any different issues.

10th Grade:

Distance Learning Support: This course will teach the roles and responsibilities of being a Grand Ledge Distance Learning Student. Students will evaluate progress in the form of grades, attendance, and behavior expectations. Students will also develop strategies for organizing materials both physical (pencil paper) and online platforms. Finally, they will prioritize communication with teachers and parents to create a strong support system.

Study Skills: This course is designed for students who desire to develop academic independence and responsibility in meeting educational demands. Through this class, students will work to become proficient in taking personal responsibility while developing consistency in classroom performance and learning about themselves as learners. Courses may be broken down into content areas to support remedial skills needed in core academic classes.

Speech: This course will teach students how to plan, organize (outline), and present speeches in each of the three common public speaking formats; informative, special occasion, and persuasive. A student's ability to speak confidently in public will be improved through self-reflection and participation in a wide variety of public speaking experiences. Speeches may include but are not limited to personal narrative, process, expository, special occasion, persuasive, extemporaneous, one-on-one interviews, and a mock job interview. In addition, this course covers the basics of intrapersonal and interpersonal communication.

Introduction to Psychology: This course is designed to introduce students to basic principles of human development, to help students to find possible solutions to personal problems by applying psychological principles and theories and to study more efficiently by applying their understanding of the learning processes. Topics covered include research methods, sensation and perception, states of consciousness, learning and memory, motivation and emotion, developmental psychology, theories of personality, and abnormal psychology.

Personal Finance/Career planning: Economics of Personal Finance examines micro-economic principles pertaining to personal finance and teaches students how to apply real-life mathematics concepts and processes to their personal finances through a personal economics perspective for instance, students will learn how to manage their money. Economics of Personal Finance examines the decision-making processes behind earning money, spending money, saving and investing to build wealth, using credit, insuring one's self and possessions, and investing in an education.

Current Events: This course will provide students with the opportunity to discuss, understand, and explore local, national, international, economic and social issues. Topics will vary depending on the current news. Students will be challenged to defend their opinions on any different issues.