

Grand Haven High School

Course Curriculum Guide

2022-2023



17001 Ferris, Grand Haven, MI 49417

www.ghaps.org/ghhs

Office Phone Numbers

Main Office 850.6000

Student Services 850.6020

Attendance 850.6050

Athletic Office 850.6030

Grand Haven Area Public Schools do not discriminate on the basis of race, color, religion, sex, national origin, age, height, weight, marital status, handicap, disability, or limited English proficiency in any of its programs or activities. The following office is designated to handle inquiries regarding the nondiscrimination policies:

Assistant Superintendent of Human Services

Grand Haven Area Public Schools, 1415 Beechtree Street, Grand Haven, MI 49417 616.850.5085

MISSION STATEMENT

The Mission of the High School staff is to ensure that all students have equal opportunity to achieve success and learn at a high level. This will encompass the development of the whole person, preparation for post-secondary options in an ever-changing world, and learning how to learn, make decisions, and work with others. This will be achieved in an environment of high staff and student expectations, mutual respect and self-esteem, with the on-going involvement of educators, parents, students, and the community. Do what's right! Do your best! WE before ME!

Dear Students,

Grand Haven High School course offerings, graduation requirements, college and post high school considerations, career pathways, course descriptions, and prerequisite information are all included in this guide. We hope you find this guide useful as it contains all of the information required for you to plan and select courses that will best complement your talents and interests. Please take the time to study this information prior to making your final course selections, and feel free to contact school staff to assist with developing a four-year plan that builds upon experiences, and promotes continuous progress towards your long-range goals, state requirements, and career pathways. It is important to understand that your class schedule is determined based on your original requests, as well as seat availability. Changing classes in the fall is extremely difficult to do and there is no guarantee that it will even be possible. Our master schedule is developed based on your course selections; therefore, be sure to carefully select your courses and expect that a change is not going to happen!

We are extremely proud of our students, staff, and curriculum in this wonderful school, yet we choose not to remain satisfied; we continuously challenge our students and staff. We are committed to making every effort to help you select a program that will best meet your educational goals and objectives. I strongly encourage you to speak with your parents in order to select the best possible schedule for next year. Please take the time to read and research the outstanding variety of courses offered at GHHS. The decisions you make now will have long lasting implications for your future.

Good luck as you begin planning your courses for next year, and remember that if you have any questions or need help, feel free to contact a counselor or any other building staff member. We look forward to another fantastic year at Grand Haven High School!

Sincerely,



HIGH SCHOOL ADMINISTRATION

Principal

Tracy L.N. Wilson

Assistant Principals

Brad Cusumano	A-F
Gina Schmitt	G-O
Michael Roberson	P-Z

Athletic Director

Scott Robertson

Assistant Athletic Director

Taylor Schriber

HIGH SCHOOL COUNSELORS

Angie Prieditis	A-C
Steve Evink	D-H
Amanda Davids-Mundt	I-M
Kim Kowalski	N-Sm
Keith Williams	Sn-Z

DISTRICT REGISTRAR

Karrie Francis

Table of Contents

GENERAL INFORMATION

PHILOSOPHY & OBJECTIVES OF GHHS.....	4
ACADEMIC GUIDELINES AND OPPORTUNITIES.....	5
NCAA AND NAIA.....	9
NCAA APPROVED GHHS COURSES.....	10
CAREER PATHWAYS.....	11
GRADUATION REQUIREMENTS.....	12

COURSE GUIDE

ENGLISH.....	13
SOCIAL STUDIES.....	18
SCIENCE	23
MATHEMATICS	30
WORLD LANGUAGES	35
BUSINESS.....	38
TECHNOLOGY.....	41
MUSIC	42
ART	45
PHYSICAL EDUCATION.....	50
MISCELLANEOUS	53
SPECIAL EDUCATION.....	54
CAREERLINE TECH CENTER.....	61

PHILOSOPHY AND OBJECTIVES OF GHHS

Team GH ... One Family, One Team, One Grand Haven

It is our expectation that ALL GHHS students, staff and parents will. . .

Always give their best **EFFORT** in everything they do;

Work hard to be **INCLUSIVE** of each other;

Show **RESPONSIBILITY** in the classroom, hallways, cafeteria and at events;

and **WORK TOGETHER** at all times!!

Be Kind ALWAYS!

Together-Excellence-Accountability-Mindfulness-Grand Haven

Philosophy

Preamble: This is a reflection of present practice and future direction.

The school's responsibility is to ensure both the student and society that graduates are educated people. This means that graduating seniors should:

1. be able to read and write at least on a level which will allow them to function successfully as adults;
2. be able to make basic mathematical computations;
3. have a wide exposure to many fields of knowledge including natural science, social science, fine arts, language arts, and vocational arts;
4. be physically fit and exposed to activities that will encourage fitness throughout life;
5. be prepared to participate in the democratic process;

This high school should help prepare students to continue lifelong education, to cope with the social environment, to encourage personal growth, to meet career responsibilities, and to become concerned citizens.

Each student should be provided the challenge and the opportunity to realize his/her potential. To encourage this, our guidelines and standards recognize students as individuals. We further recognize student rights and responsibilities as stated in the student handbook. We endorse consistency in applying penalties for violation of the student code of conduct.

As a result of attending this high school, it is hoped that students will have experienced personal growth, and gained a sense of confidence, and security. Students should be prepared for, and have a sense of control over their lives by having a knowledge of the past, the present, and the future.

Objectives

The school philosophy reflects a basic attitude concerning what education should be and suggests a direction for individual teachers to formulate specific objectives. The following are general objectives which re-emphasize basic school goals.

Grand Haven High School will:

- Provide a wide range of classes to encourage a well-rounded education and an opportunity for students to meet their individual needs.
- Provide a variety of classes with academic challenges to prepare potential candidates for college.
- Provide a variety of vocational courses to develop employment skills.
- Promote the students' understanding of our democratic institutions and encourage participation in the democratic process.
- Encourage each student to feel free to express his/her own ideas while working with others.
- Provide guidance to help students utilize the services and opportunities offered by the high school.
- Provide an environment, which encourages and teaches self-discipline and responsible decision-making.

ACADEMIC GUIDELINES and OPPORTUNITIES

All students must carry a minimum of six (6) classes each semester. Extenuating circumstances would need to be approved by the principal.

ADVANCED PLACEMENT - The Advanced Placement (AP) Program is a cooperative educational endeavor of secondary schools, colleges, and the College Board. High school students that take AP exams may earn college credit, appropriate placement, or both, for satisfactory performance on AP exams depending on which college or university the student will attend. AP courses are intended to be the equivalent of a college-level freshman course. **It is expected that students taking an AP course understand that these courses are far more demanding and rigorous than a regular high school course.** AP course grades will be weighted on a 5.0 GPA scale. AP courses taken through an Independent Study class will receive only a Credit (CR) or No Credit (NC), in accordance with the Independent Study guidelines below. ***Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year.***

If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

Students who take AP classes are encouraged to take the AP Exam in May.

Registration will occur in October.

*****The AP Exam fee of \$100 will be due at the time of registration in October.*****

BLENDED COURSES - Courses offered in a blended format are based on the same standards and benchmarks as a traditional class and as accepted by the Michigan State Board of Education. In a blended class, students will spend 3-4 days per week in a face-to-face classroom, and 1-2 days per week of their class time outside the assigned classroom, independently working with the online resources available. Blended days will also allow students who are struggling with material or need additional time to work within small groups of students, work in small groups with the teacher, and have additional time to complete a variety of work including prior skills needed and new content. The standards and expectations of the blended class will be the same as the traditional class; the difference lies in how those standards are delivered. The blended approach will allow students to set their own pace of learning and have more flexibility in how they allot their school time. 11th and 12th grade students who are independent and self-motivated, as well students who may struggle with the material, are excellent candidates for this educational approach. ***Students must maintain a B- or higher in any blended course in order to be allowed to work outside the class on "blended" days.***

CLASS RANK - Class rank is determined at the end of each semester using the student's cumulative GPA. The ranking is cumulative and includes all high school semester final grades for students at each grade level. Class Rank is determined beginning with the end of the first semester of Junior Year.

CREDIT RECOVERY – When a student needs to retake a failed course, there are two options: 1) To sit in the GHHS course again and earn the letter grade on the student's transcript; 2) Take the same course through an on-line source, where only the credit will be earned, and a CR will be placed on the student's transcript. If a student retakes a failed course at GHHS, then a No Grade (NG) will be placed on the transcript instead of the original F, and will not affect the student's GPA. If a student retakes a failed course through an on-line source, the F will remain on the transcript and factor into the student's GPA. Students who retake a course are required to complete the Course Grade Audit form in order to have the original grade earned replaced on their transcript.

DUAL ENROLLMENT – Dual Enrollment is an opportunity available to high school students. To be eligible in an area tested by the MME or a college readiness assessment (i.e., EXPLORE or PLAN), the student must achieve a qualifying score as defined by the Michigan Department of Education College and Career Readiness Benchmark scores. To be eligible in a non-tested area, the student must gain prior approval from the high school principal and be able to identify why this would be in the students best interest. Interested students should schedule an appointment with their counselor to see if they qualify for this opportunity.

EARLY COLLEGE - In cooperation with Muskegon Community College and the Ottawa Area Intermediate School District, Grand Haven High School will begin the Early College of Northwest Ottawa County. This opportunity will begin in the fall of a student's junior year and there is an extensive application process. This is a five-year high school program, which allows for the earning of a High School Diploma in conjunction with up to 62 college credits. Interested students should schedule an appointment with their counselor to see if they qualify for this program, applications are due each year in early March.

EARLY GRADUATION – Early Graduation applications must be filled out with a counselor. Early Graduation applications are due by the end of the first week of June of a student's junior year.

EDUCATIONAL DEVELOPMENT PLANS (EDP) – An EDP is a plan of action in which a learner records a career goal and an educational path to achieve it. This enables each learner to develop a unique, ongoing record of career planning based on thoughtfully selected and attainable career goals and educational options that provide guidance in taking effective steps to enter a career of choice. GHHS has adopted Michigan's six career pathways and has developed a plan for helping students explore, plan, and apply what they have learned toward a variety of career options. Counselors will work with all 9th-11th grade students each school year on their individualized EDP.

GRADING SCALE –

Letter Grade	Honor Points	Honor Points for AP Classes	Letter Grade	Honor Points	Honor Points for AP Classes
A 93-100%	4.000	5.000	C 73-76%	2.000	2.500
A- 90-92%	3.667	4.583	C- 70-72%	1.667	2.084
B+ 87-89%	3.333	4.166	D+ 67-69%	1.333	1.666
B 83-86%	3.000	3.750	D 63-66%	1.000	1.250
B- 80-82%	2.667	3.338	D- 60-62%	0.667	0.834
C+ 77-79%	2.333	2.916	F 59% or less	0.000	0.000

Cumulative Grade Point Average is determined at the end of each semester using the student's final semester letter grades for all the classes. The Cumulative Grade Point Average (GPA) is calculated by dividing the total honor points earned by the total number of credits attempted. Grades not used in calculating GPA: CR = Credit earned with 0.000 GPA; WE = Withdraw Exit (from school); WP = Withdraw (from school) Passing; WF = Withdraw (from school) Failing.

HOME SCHOOLING - Grand Haven High School neither recommends nor keeps information on Home School Institutions. All Home School educated high school students transferring into GHHS must submit an official transcript from the home school. Only transcribed Home School courses submitted within **two weeks** of registration will be accepted. Additionally, students may need to take a competency exam in the Core Curricular areas in order to be properly placed into a class. Homeschool credits that do not come from an accredited program will only receive Credit (CR) on their transcript, the grade earned will not be used in the calculation of the student's GPA.

INDEPENDENT STUDY COURSES - Limited to one independent study per semester in an elective area. This option is available to juniors and seniors only. Deviations to this policy must have approval from the high school principal. Students taking an Independent Study will not be issued a letter grade, only a Credit (CR) or No Credit (NC) will be issued and placed on their transcript. Independent Study forms are available in Student Services, and must be completed prior to the start of a new semester.

INCOMPLETES – In cases where unusual circumstances prevent a student from completing all the work for a class by the end of the semester, the teacher may award an incomplete (I) grade at their discretion. This is a temporary grade that must be resolved within **two weeks** of the end of the marking period for which the "I" was given. It is the student's responsibility to make arrangements with the teacher to complete the work and resolve the grade. An "I" that is unresolved at the end of the **two week** time period may become an "F".

MIDDLE SCHOOL CREDITS – If a student earns high school credit in Math, Science, World Language, or Physical Education/Health before entering high school, the student shall be given high school credit for that course. A CR (credit) will be placed on the transcript, the grade earned will not be used in the calculation of the high school grade point average (GPA).

NCAA Eligibility – In order to practice and play as a freshman at an NCAA Division I or Division II university/college, the student-athlete must satisfy the requirements of the NCAA Bylaw 14.3. Student-athletes first entering a collegiate institution will have eligibility for practice and competition in the freshman year certified by the NCAA Initial-Eligibility Clearinghouse. It is the responsibility of the student to meet with their GHHS counselor to verify academic requirements for NCAA eligibility. Informational brochures are available in Student Services. See page 8 for NCAA approved courses and athletic eligibility suggested course path.

ON-LINE CLASSES - As part of the 21f legislative opportunity, students may take up to two (2) on-line courses each semester with no tuition cost through Michigan's Online Course Catalog. Students choosing an additional course, may select courses through Michigan's Online Course Catalog, Brigham Young University or other approved programs, and will incur a tuition fee. Students must make an appointment with their counselor to discuss these options. Deadline to apply is the **Friday before each semester begins**.

PASS-FAIL - With parent and teacher approval, students may choose to take one elective course on a pass-fail basis each semester. The student will have the choice by the **end of the second week of each semester** of either completing the course on a normal grade (A-F) basis or on pass-fail (P-F) basis. A passing grade would earn credit toward graduation and would not impact the student's grade point average. Please see your counselor if you have any questions and/or concerns regarding taking a class on a pass-fail basis.

SCHEDULE CHANGES – Are strongly discouraged and are very difficult to accommodate. Requests for changes must be submitted in writing on the Schedule Change Request Form available in the Student Services Center. ***All schedule change requests must be completed during the designated drop/add dates.***

SME PRIME® – (Partnership Response In Manufacturing Education) is designed to bring together organizations, businesses, and high schools in a community-based, partnered approach to advanced manufacturing/STEM education. Shape Corp is proud to be supporting PRIME at Grand Haven High School. In each community, SME PRIME works with a team of educators, manufacturers, and civic leaders to develop a strategic framework reflecting their community's unique workforce knowledge and skills needed. SME PRIME deploys an entire network of partners to leverage the latest technology, industry vetted curricula as well as all the supporting resources for the school, instructors and students.

TRANSFER STUDENTS – If a student transfers to GHHS from another high school, the transcript from the other high school is evaluated in terms of credit and time in class. A calculation of earned credit is then made and noted on the transcript. To receive a GHHS diploma, transfer students must earn a minimum of 2.0 credits from GHHS, and complete ALL GHHS graduation requirements. **Transfer students will not be included in class ranking until they have completed one full semester of courses.**

TESTING OUT - Public Act 335, Section 1279B & Section 127B (a) (4) (c) of the State Code, requires that any high school student be offered a “test out” of any course offered by his/her high school. Grand Haven High School students opting to test out of a course will receive a ‘CR’ on their transcript if they receive a C+ (77%) or higher grade on the test out exam. Credit will be given towards graduation; this option allows students to advance in the curriculum and satisfy a graduation requirement. The test out exam grade is not factored into a student's grade point average. All applicants requesting a Test Out must submit a completed form to the main office by the posted deadline. If you have questions, contact Mrs. Schmitt. Registration forms are available in the main office. Students are required to pay a \$20.00 application fee for each test. **This fee is non-refundable to students who do not take the test(s) for which they have registered.** This Test Out opportunity will occur in the Spring Semester exam period only.

ASSESSMENTS

The State of Michigan requires that all high school juniors take the Michigan Merit Exam which includes MSTEP/SAT/WorkKeys assessments. Due to the requirement, **students MUST have taken all parts of the MME to be eligible for graduation from GHHS. The test will be given in the Spring on the dates that are set by the State.** GHHS also administers the PSAT 9 and the PSAT 10 tests to all freshmen and sophomores. These tests are used to help prepare for the SAT.

The Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT) is given to select juniors and measures mathematical reasoning and verbal abilities. One purpose of this test is to compete for national scholarships from the National Merit Corporation.

The assessments used at Grand Haven High School include:

PSAT – 9th grade, 10th grade – Spring

Michigan Math Prize – selected 11th grade - October

PSAT/NMSQT (Pre SAT / National Merit Scholarship Qualifying Test) – selected 11th grade - October

SAT (Scholastic Achievement Test) – 11th grade - Spring

ACT (American College Test) – various dates

WorkKeys – 11th grade - Spring

M-STEP (Michigan Student Test of Educational Progress) - 11th grade - Spring

High School Internet Communications

ParentVue/StudentVue - These online information portals allow parents and students to review student's grades, class assignments, and attendance through the Internet. From any computer with internet access, students or parents select the appropriate school, then enter the Username and Password to review class information. Specific instructions are available on the District website at www.ghaps.org. For help getting your account activated, call Student Services at 850-6020.

On-Line Electronic EDP - This Internet program is available to 7th through 12th grade students and their parents. The electronic EDP (4 year educational plan) allows the student to select courses for all four years of high school, submit assessment results, and complete an interest inventory. Based on interest, academics and activities, various career options will be suggested. This tool will be available on-line 24 hours a day. Throughout high school, students and parents are encouraged to periodically review all information. This site will be available on GHHS's website at www.ghhs.ghaps.org.

College Considerations

All colleges do not have the same academic entrance requirements. **The responsibility for meeting these requirements rests with the student and parents.** Our guidance counselors are available to assist you in the college application process.

COLLEGIATE ATHLETE RESOURCES

All students must register with the NCAA Eligibility Center: <https://web3.ncaa.org/ecwr3/>

NCAA CLEARINGHOUSE DIVISION I AND DIVISION II ACADEMIC REQUIREMENTS

All college athletes must meet the NCAA Clearinghouse standards listed below. Any athlete who desires to compete at the college level should see their counselor early in their high school career to make certain their academic path meets these standards.

Core-Course Requirements

Division I Athletics	Division II Athletics
<u>16 Core Courses Required:</u> 4 years English/Language Arts 3 years Math (Algebra I or higher) 2 years Natural/Physical Science 2 years Social Science 1 year of additional English, Math or Natural/Physical Science 4 years of additional courses from any area above, Foreign Language or Comparative Religion/Philosophy	<u>16 Core Courses Required:</u> 3 years English/Language Arts 2 years Math (Algebra I or higher) 2 years Natural/Physical Science 3 years of additional English, Math or Natural/Physical Science 4 years of additional English, Math, Natural/Physical Science, Foreign Language, Comparative Religion or Philosophy

See next page for a list of GHHS approved NCAA Core Courses.

Students may also register with NAIA: <http://www.naia.org/>

NCAA APPROVED GHHS COURSES

English

- AP English Language/Composition A & B
- AP English Literature/Composition A & B
- College English
- Contemporary Literature
- Creative Writing I & II
- English 9 A & B
- English 10 A & B
- Honors English 10 A & B
- English 11 A & B
- Folklore & Mythology
- Humanities Literature
- Journalism I
- Public Speaking/Communications I
- Research Studies through Genealogy

Social Studies

- AP Comparative Government & Politics
- AP European History A & B
- AP Psychology A & B
- AP US Government A & B
- AP US History A & B
- AP World History A & B
- Current Affairs
- Diversity in American History
- Economics
- Introduction to Psychology
- Law
- Philosophy
- Sociology
- Sports 20th Century
- US Government
- US History A & B
- World History A & B
- World Religions

Science

- Anatomy & Physiology A & B
- AP Biology A & B
- AP Chemistry A & B
- AP Environmental Science A & B
- AP Physics C: Mechanics (Calculus Based) A & B
- Astronomy
- Biology A & B
- Earth Science A & B
- Geology A & B
- Greenhouse Biology
- Honors Biology A & B
- Honors Chemistry A & B
- Honors Physics A & B
- Marine Biology
- Physical Science - Chemistry
- Physical Science - Physics
- Physics Applications: Electricity & Electronics
- Wildlife Biology

Math

- Algebra I A & B
- Honors Algebra I A & B
- Algebra II A & B
- Honors Algebra II A & B
- AP Calculus AB
- AP Calculus BC
- AP Statistics
- Geometry A & B
- Pre-Calculus A & B
- Statistics
- Trigonometry

Additional Core Courses

- German I A & B
- German II A & B
- German III A & B
- German IV A & B
- German V A & B
- Spanish I A & B
- Spanish II A & B
- Spanish III A & B
- Spanish IV A & B
- AP Spanish

Grand Haven High School - A Career Pathways High School
Helping Grand Haven students map out successful careers

The Six Pathways are: 1 - Arts & Communication, 2 - Business Management & Technology, 3 - Health Sciences, 4 - Human Services, 5 - Manufacturing Technology & Engineering, 6 - Natural Resources & Agriscience.

1 Arts & Communications

Are you a creative thinker? Are you imaginative, innovative, and original? Do you like to communicate ideas? Arts & Communications may be the career path for you!

Express yourself through careers related to humanities and the performing, visual, literary and media arts. Sample careers include artists, journalists and graphic designers. These careers are interesting to people who value creativity and seek opportunities to express themselves.

2 Business Management & Technology

Do you enjoy being a leader, organizing people, planning activities, and talking? Do you like to work with numbers or ideas? Do you enjoy carrying through with an idea and seeing the end product? Do you like things neat and orderly? This may be the career path for you!

Business related careers include accounting, business administration, finance, information processing, and marketing. Sample careers include accountants, business managers, and auto salespersons. These careers are interesting to people who are good at math, feel comfortable using computer programs, and enjoy being the leader of a group.

3 Health Sciences

Do you like to care for people or animals who are sick or help them stay well? Are you interested in diseases and in how the body works? Health Sciences may be the career path for you?

You can help others through careers related to the promotion of health as well as the treatment of injuries and disease. Sample careers include physicians, nursing, and veterinarians. These careers are interesting to people who like to know how the body works and care about the wellbeing of people and animals.

4 Human Services

Are you friendly, open, outgoing, understanding, and cooperative? Do you like to work with people to solve problems? Is it important to you to do something that makes things better for others? Human Services may be the career path for you!

Human Service careers are related to childcare, civil service, education, hospitality, and social services. Sample careers include counselors, teachers, law enforcement officers, & religious leaders. These careers are interesting to people who enjoy interacting with people and helping them solve their problems.

5 Manufacturing Technology & Engineering

Are you mechanically inclined and practical? Do you like reading diagrams and blueprints, and drawing building structures? Are you curious about how things work? This may be the career path for you!

Manufacturing Technology & Engineering careers provide opportunities to design, develop, install or maintain physical systems. Sample careers include mechanics, airplane pilots, and engineers. These careers are interesting to people who enjoy working with tools, equipment, and other kinds of machinery.

6 Natural Resources and Agriscience

Are you a nature lover? Are you practical, curious about the physical world, and interested in plants and animals? Do you like to be physically active? This may be the career path for you?

These are careers related to natural resources, agriculture, and the environment. Sample careers include fish and game wardens, marine biologists, and farmers. These careers are interesting to people who enjoy working outdoors and are interested in nature and animals.

REQUIREMENTS FOR GRADUATION

Credit is granted for each semester of successfully completed course work. Students who have completed all requirements for graduation from Grand Haven Area Public Schools may be issued a diploma. In order for a student to earn a diploma from Grand Haven High School, the student must have been in attendance at Grand Haven High School for at least one semester of their senior year and earned no less than 2.0 credits, which must include one credit of math.

Per Board of Education Policy #5460 Graduation Requirements - Students must complete the entire Michigan Merit Exam, which consists of a College Entrance exam, Career Readiness test, and Michigan wrap-around tests (currently SAT, WorkKeys, M-STEP), or an approved and appropriate alternate assessment, in order to graduate.

Total Credits Required to Graduate: 22.0 Credits

Coursework Requirements	Credits Required	Recommended Grade Level	Qualifying Courses and Other Notes
English/Language Arts	4.0	9 th 10 th 11 th 12 th	English 9 English 10 English 11 or AP Language & Comp AP Literature & Comp OR Elective*
Social Studies	3.0	9 th 10 th 11 th /12 th 11 th /12 th	World History with Geography US History with Geography US Government (.5 credit) Economics (.5 credit)
Science	3.0	9 th 10 th 11 th /12 th	Earth Science Biology or Honors Biology Chemistry* (.5 credit) Physics* (.5 credit) *Physical Science-Chemistry and Physical Science-Physics (.5 credit each); Chemistry, AP Chemistry, Physics, AP Physics
Mathematics <i>**All students must be enrolled in a math course until they have completed the State required Michigan Merit Exam (MME). **</i>	4.0	9 th 10 th 11 th 12 th	Algebra I or Honors Algebra I Geometry Algebra II or Honors Algebra II Additional Math credit for Final Year Math Requirement* <i>Credit for Algebra I, Geometry, and Algebra II may be earned in middle school.</i>
World Language	2.0		Spanish or German – 2.0 credit of the same language 1.0 Credit may be replaced by an additional English, Math, or Science course. <i>*1.0 Credit may be earned in middle school.</i>
Physical Education	.5		PE requirement may be replaced by an additional English, World Language, Math, or Science course.
Health	.5		Health Credit may NOT be replaced.
Visual/Performing or Applied Art	1.0		Credit may be earned in any one category of fine arts, or any other course designated to satisfy VPA credit
Electives	4.0		Any courses designated to satisfy the Elective credit.
On-Line Learning Experience			Incorporated into the GHHS curriculum.
Testing Requirement			Good faith effort on State mandated testing.

COURSE GUIDE

ENGLISH

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
English 9 A/B	B29 A&B	9	English 9	Yes
Public Speaking/Communications I	B32	9-12	English Elective/Visual Performing Arts	Yes
Research Studies through Genealogy	B36	10-12	English Elective/Elective	Yes
Contemporary Literature	B37	11-12	English Elective	Yes
Reading Workshop I A/B	B41 A&B	Teacher Recommended	English Elective	
Independent Reading	B46	10-12	English Elective	
Folklore & Mythology	B49	9-12	English Elective	Yes
English 10 A/B	B53 A&B	10-12	English 10	Yes
Honors English 10 A/B	B55 A&B	10-12	English 10	Yes
English 11 A/B	B56 A&B	11-12	English 11	Yes
Humanities Literature	B60	11-12	English Elective	Yes
Film Analysis	B67	10-12	English Elective/Visual Performing Arts	
Media Production	B68	10-12	English Elective/Visual Performing Arts	
Journalism I	B72	9-12	English Elective/Visual Performing Arts	Yes
Bucs Blade A/B	B79 A&B	10-12	English Elective/Visual Performing Arts	
Creative Writing I	B82	9-12	English Elective/Visual Performing Arts	Yes
Creative Writing II	B83	10-12	English Elective/Visual Performing Arts	Yes
Literary Exploration	B87	9-12	English Elective/Elective	
College English	B88	11-12	English Elective	Yes
AP English Language & Composition A/B	B92 A&B	9-12	English 11/English Elective	Yes
AP English Literature & Composition A/B	B94 A&B	9-12	English 11/English Elective	Yes
Yearbook Journalism A/B	B95 A&B	10-12	English Elective/Visual Performing Arts	

B29 A & B English 9

Two Semesters, Basic level of difficulty

1 credit

Open to: 9th only

The focus of this course is writing and literature. Writing is taught as a process through the use of a writer's notebook, incorporating proper grammar usage and vocabulary development. English 9A students will read short fiction, a novel of their choice, and Ray Bradbury's *Fahrenheit 451*. English 9B students will become critical consumers of informational text, write a research paper and put together a research presentation on a topic of their choice, read Shakespeare's *Romeo and Juliet*. Students will write a personal narrative, multiple literary essays, develop MLA research skills and hone their presentation skills. Students are encouraged to practice effective study skills, including note taking, outlining, active listening, and organization. Homework is required.

B32 Public Speaking/Communications I

One semester, Basic to Advanced level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This basic speech and communications class is designed to do the following: improve the student's ability to express his/her ideas through speaking, improve listening ability, gain skills in organization and outlining, and improve library and research skills. In addition to presenting several types of public speeches, students will also practice other communication skills including: interviewing, electronic communication, group discussion, and communication analysis.

B36 Research Studies through Genealogy

One semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

Students will learn and utilize research skills to build a family tree and study historical family roots. Students will learn valuable understanding of research techniques, source evaluation, documentation/citation of evidence, and putting their findings in writing. The final exam will be a family tree and narrative nonfiction writing of their family history based on the evidence from their research, including citations.

Prerequisite: Successful completion of English 9 A & B

B37 Contemporary Literature

One semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 11th & 12th

This course is designed for the student who enjoys engaged discussion, reflection, collaboration, and critical, close examination of the literature. A wide variety of award winning contemporary fiction and nonfiction literature from the past 50 years, including but not limited to topics such as memoir, fantasy, and humor are read, analyzed, and discussed. Students should expect nightly reading assignments and participation in daily discussions. The “book club” format of the course lends itself to dynamic interaction between the literature and class members. This is a fresh alternative and companion to “the classics.”

B41 A & B Reading Workshop I

One Semester Each, Basic level of difficulty

1/2 credit each

Open to: Recommended
Students Only

This class is designed for students wishing to improve their reading and writing skills. Instruction is focused on bringing each student further in his or her development of skills and encouraging the reading and writing competencies necessary for academic success. Particular emphasis is placed on the mastery of reading comprehension strategies and the traits of good writing. A variety of materials, including newspapers, periodicals, computer software, and short texts will enhance the lessons on reading improvement and support the student in other academic classes. This is a course that meets the English elective requirement. Class participation in all activities is essential for each student in the course. Discretion of the teacher to be released for replacement with an elective course after Workshop A.

Teacher recommendation required for selected students only.

B46 Independent Reading

One semester, Basic to Advanced level of difficulty

1/2 credit

Open to: 11th & 12th

Independent reading provides students with an opportunity to read for enjoyment. Students select their own reading material and can get suggestions from the teacher and the librarian. Fiction and non-fiction books may be read. This course will include a writing component as per teacher discretion. Students selecting this course should plan on reading extensively. This course enhances the reader's ability to use diverse strategies to give reading purpose. Students will be guided to choose their own books and utilize specific strategies including inference, schema, questioning, etc. to improve reading skills and enjoyment of literature. Textbooks are not acceptable reading.

B49 Folklore and Mythology

One semester, Intermediate level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This course is an overview of the major myths and folklore of Ancient Greece, Norse, and Celtic mainly through primary sources. There will be a focus on heroic myths, creation, and the role of women in each culture. We will also examine the nature and social function of mythology, modern theories, and the legacy of mythology through art, literature, and popular culture. Students will learn how mythic narrative patterns and symbols function in Western culture.

B53 A & B English 10

Two Semesters, Basic to Intermediate level of difficulty

1 credit

Open to: 10th, 11th & 12th

English 10A is the first section of a survey course in literature in which students develop skills in close reading and literature interpretation as well as skills in organizing and writing well-constructed narrative, informational, and argument essays. The students will become familiar with common themes in literature such as the individual's role in relation to the government, integrity, and equality. English 10B is the final section of a survey course in literature in which students

continue the process of developing skills in close reading and literature interpretation as well as skills in organizing and writing well-constructed narrative, informational, and argument essays. The research process and poetry will be studied and practiced, as well. The students will become familiar with common themes in American literature such as relationships, and dreams and visions. Students will improve thinking and writing skills by analyzing literature through a variety of writing styles. The course is designed to allow students greater appreciation for literature's role in the world and ourselves and must be passed prior to graduation.

B55 A & B Honors English 10

Two Semesters, Advanced level of difficulty

1 credit

Open to: 10th, 11th & 12th

Honors English 10A is the first section of a survey course in literature in which students develop skills in close reading and literature interpretation as well as skills in organizing and writing well-constructed narrative, informational, and argumentative essays. The students will become familiar with common themes in literature such as the individual's role in relation to, integrity, and equality. Honors English 10B is the final section of a survey course in literature in which students continue the process of developing skills in close reading and literature interpretation as well as skills in organizing and writing well-constructed narrative, informational, and argument essays. The research process and poetry will be studied and practiced. Students will become familiar with common themes in American literature such as relationships, and dreams and visions. Students will improve thinking and writing skills by analyzing a variety of writing styles. Required for graduation, this course is designed to help students develop an appreciation for literature's role in fostering students' personal development and their ability to understand the world around them.

Additionally, Honors English 10 students should be both highly motivated and able to work independently at an accelerated, rigorous pace. Students are expected to utilize critical and analytical thinking skills as they respond to verbal and written prompts. The curriculum will focus on preparing students to enroll in Advanced Placement English classes.

B56 A & B English 11

Two Semesters, Intermediate level of difficulty

1 credit

Open to: 11th & 12th

This course seeks to broaden students' perspectives through reading a variety of classic novels, short stories, and plays written by world class authors. There is a strong focus on world literature. Students will examine people from different backgrounds by studying literature from various regions, cultures, and backgrounds. This class also teaches composition, grammar, and vocabulary. Emphasis on SAT preparation included.

Prerequisite: English 10 or Honors English 10

B60 Humanities Literature

One semester, Intermediate to Advanced level of difficulty

1/2 credit

Open to: 11th & 12th

Humanities is "the art of being human," exploring the human condition through philosophy, religion, art and music. There are outside activities such as theater, art exhibit, museum and concert attendance that are a part of the semester grade. College level papers are the assessment that follows each major course discussion.

B67 Film Analysis

One semester, Basic level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

Students in this course will explore popular film as an art form by analyzing it through the literary, dramatic, and cinematic gazes. They will look at the story, setting, character development, symbolism, elements of the film's genre, mood, cinematography, overall effectiveness of the director's choices, etc. Students will also be comparing and contrasting films with the literature they were created after. Activities will include reading literature, watching film, research, and possibly writing a screenplay.

B68 Media Production

One semester, Intermediate to Advanced level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

This course is a general intro to video production with an emphasis in journalistic news writing, compiling and distribution. You will gain experience in television and broadcast productions in the studio and out in the field. You will learn many of its different facets including but not limited to camera, audio, graphics, editing and directing. There will also be learning experiences as on air talent. Students will learn the craft of video production and the different aspects associated with a

broadcast; compile, write, edit and distribute newsworthy information; work together as a team in the studio and on location to produce quality work that can be aired; and produce daily high school announcements and news.

Teacher approval required for enrollment.

B72 Journalism I

One semester, Intermediate level of difficulty

1/2 Credit

Open to: 9th, 10th, 11th & 12th

This class will give students an introduction to the world of journalism. In this writing intensive class, students will explore all basic areas of journalistic writing in preparation for a position on the Blue and Gold yearbook or Bucs' Blade newspaper staff. They will be expected to contribute to the Bucs' Blade website and learn to write in news, feature and opinion formats while using proper journalism style and format. Students taking this course can expect to write often. Assignments will be written as though they were to be published in a newspaper. Multiple revisions of assignments will be the norm.

Included in the course are units covering the history and purpose of the free press in American society, legal and ethical issues for journalists and the changing function of media, as well as basic writing skills in news, feature and opinion writing. Students will also learn to prepare alternative-copy formats and learn when such forms are more useful than traditional story forms. As they arise, contemporary issues in journalism may also be featured in the course. Students will also have the opportunity to explore design and photojournalism and emerging media (blogging, podcasting, etc.). Having a digital camera you may use will be extremely helpful in this portion of the course.

B79 A & B Bucs' Blade

Two Semesters, Intermediate to Advanced level of difficulty

1 credit

Open to: 10th, 11th & 12th

*****Written applications must be submitted to and approved by the instructor before joining the class.*****

Students in this class work to produce The Bucs' Blade, Grand Haven's award-winning student newspaper and its affiliated website bucsblade.com. Students work in a variety of positions in a newsroom setting, so individual jobs and experiences vary. Typically in their first year on staff, students will serve as a reporter or a photojournalist. These staffers work on basic stories (news, feature and opinion) for print and web although specific assignments will vary according to individual students' needs. Students will also learn the basic elements of copy editing for newspapers. In subsequent years on staff, students will either move up to an editorial or other leadership position which includes managing a team of reporters or photographers, planning coverage for a section and being responsible for designing print pages and uploading content to the web. At the end of each semester, all students will complete a digital exam portfolio in which they document their mastery of the tasks required by their position on staff and provide evidence documenting how they have grown as a journalist over the previous 18 weeks. *Note: revenue generation through ad sales/sponsorship sales is a part of the requirement for this course.*

B82 Creative Writing I

One Semester, Intermediate to Advanced level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This writing class provides students an opportunity for self-expression. The emphasis will be on learning techniques that will help students write more effective poems, short stories and short plays. Students will also examine the connection between reading and writing. A wide variety of topics and assignments are meant to encourage and stimulate fresh ideas.

B83 Creative Writing II

One Semester, Intermediate to Advanced level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

The class will provide students with the opportunity to develop their self-expression through a variety of written activities. Students will further develop their creative writing skills by discussing proper storytelling technique, writing in a variety of genres and analyzing published text.

Prerequisite: Creative Writing I

B87 Literary Exploration

One Semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This course will be divided into three areas of study: genres of literature, poetry, and Shakespeare. Genres of literature will include the exploration of various genres of fiction (science fiction, fantasy, horror, murder mystery, action adventure,

romance, etc.). Students will identify qualities and traits of each genre through the analysis of various short stories and essays. The poetry component will include the study of various types of poetry, as well as the creation of original poetry. Finally, students will explore the world of Shakespeare through the reading and analysis of various plays while analyzing characters, plot, and themes.

B88 College English

On Semester, Intermediate to Advanced level of difficulty

1/2 credit

Open to: 11th & 12th

This course emphasizes writing and critical thinking skills, including a variety of expository essays, focusing on research and responses to literature. Analysis skills and assignments taught in this semester course prepare a student for future college assignments. In addition to writing, students will be required to read, critically examine literature taught at the introductory college level, and present. Classroom discussion and participation are essential. This course should be taken as an alternative to Advanced Placement courses.

B92 A & B Advanced Placement English Language and Composition

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

This is a college-level course in critical thinking and effective writing. Readings and writings are almost entirely nonfiction. It demands higher levels of intellectual effort, and it expects self-directed motivation. Independent reading will be required, and students will study language use to critically analyze essays. Classroom discussion and active participation are essential. Written assignments, both inside and outside of class, will be an important part of the course. Students are encouraged to take the College Board's Advanced Placement English Language and Composition examination in May.

Summer assignment required.

Prerequisite: English 10 A & B or Honors English 10 A & B

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

B94 A & B Advanced Placement English Literature and Composition

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

This is a college-level course designed to develop student's abilities as readers and writers, especially as critics of literature. It demands higher levels of intellectual effort and mature habits of critical thinking. Classroom discussion, collaboration and active participation are vital. Written assignments will be an important part of the course. Near the conclusion of the course, students are encouraged to take the College Board's Advanced Placement English Literature and Composition examination in May. **Summer assignment required.**

Prerequisite: English 10 A & B or Honors English 10 A & B

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

B95 A & B Yearbook Journalism

Two Semesters, Intermediate to Advanced level of difficulty

1 credit

Open to: 10th, 11th & 12th

The major purpose of this course is to produce The Blue and Gold yearbook. Students taking this course will learn and practice a number of skills needed to work on a publication. Primary skills include design and desktop publishing, journalistic writing, editing, photography and advertising sales as well as teamwork and public relations. A typical student workload will entail completing 7-10 2-page spreads per year (3-5 per semester). Editors will also study and apply principles of management. In addition to the production of the book, course requirements include ad sales, selling and distribution of yearbooks and other administrative & organizational duties. Grades are based on ad sales (10 percent), weekly work logs (10 percent) and spread completion (80 percent). Students may apply for membership on the Blue and Gold staff in late January of the year prior to joining the staff. Acceptance of application is a prerequisite for admission to the class. Application and approval required for enrollment.

SOCIAL STUDIES

Requirements for graduation: **3 credits required**

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Law	C20	10-12	Visual Performing Arts/Elective	Yes
Sociology	C21	9-12	Elective	Yes
Philosophy	C23	11-12	Elective	Yes
World History A/B	C30 A&B	9	World History	Yes
World History in Film	C41	9-12	Elective	
US History A/B	C42 A&B	10-12	US History	Yes
Diversity in American History	C45	10-12	Elective	Yes
AP US History A/B	C46 A&B	9-12	US History/Elective	Yes
AP European History A/B	C48 A&B	9-12	Elective	Yes
AP World History A/B	C50 A&B	9-12	World History/Elective	Yes
AP Comparative Government & Politics	C60	11-12	Elective	Yes
Current Affairs	C66	9-12	Elective	Yes
Introduction to Psychology	C74	10-12	Elective	Yes
AP Psychology A/B	C78 A&B	9-12	Elective	Yes
World Religions	C84	9-12	Elective	Yes
Economics	C86	11-12	Economics	Yes
Pay It Forward	C87	12	Visual Performing Arts/Elective	
US Government	C88	11-12	Government	Yes
AP US Government A/B	C89 A&B	9-12	Government/Elective	Yes
Sports in the 20 th Century	C94	10-12	Elective	Yes

C20 Law

One semester, Basic to Advanced level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

This course is designed to engage students in a critical examination of the structure and function of the United States legal system. Students will be introduced to contemporary legal issues in the areas of constitutional, civil, and criminal law through a variety of methods such as discussion, cooperative learning, simulations, case analysis, lectures, guest speakers and a mock trial. The goal of this class is to increase students' practical understanding of how the justice system really works. A wide range of topics will be explored including court structure, juries, important legal cases, terminology, crime, capital punishment, and the Bill of Rights.

C21 Sociology

One semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

Sociology is the scientific study of human societies and social behavior. The main focus is social interaction — how people relate to one another and influence each other's behavior. Students will use sociological theory to evaluate the following topics: Culture, deviance, class, race, ethnicity, gender, age, and health. This course gives students a better understanding of how the development of society is influenced by family, school, peers and the mass media. Students will also use these concepts to analyze the following movie: *The Breakfast Club*, *White Man's Burden*, *Crash* and *Mona Lisa Smiles*.

C23 Philosophy

One semester, Intermediate level of difficulty

1/2 credit

Open to: 11th & 12th

This course is an introduction to philosophical thinking. Students will develop their ability to make sound, valid, and logical arguments, and will explore different answers to questions such as “What does it mean to be a good person?”, and “How do I know what I think I know?”, and “What would concepts like ‘justice’ and ‘fairness’ look like in an ideal society?”. In addition to discussing what great thinkers in the past have had to say on these questions, students are expected to develop their own answers to life’s essential questions. Since many of the great works of philosophers are written in a challenging fashion, strong reading and writing skills are highly recommended.

C30 A & B World History

Basic to Intermediate level of difficulty

1 credit

Open to: 9th

World History is a survey course that gives students the opportunity to explore recurring themes of human experience common to civilizations around the globe from ancient times to the present. The content of this course will provide a broad overview of Asian, African, European, and Latin American history. It will also explain how geography, civics and economics affected the major events of history. Major topics/objectives covered will be the impact of geography; development of government (authority of power); trade and economics; development of religions and ethnic groups, social organization and culture in areas and time; conflicts, wars, revolutions, and their impact; global connections.

C41 World History in Film

One semester, Basic level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

In World History in Film, students will watch a wide range of films that explore themes and concepts from ancient history to the modern world. From wars to revolutions, from social movements in the streets to scheming in royal palaces, from the creation of new countries to the collapse of old ones, World History in Film will use movies to bring the cultures and struggles of the past to life while deepening students’ understanding of history. Students will analyze and reflect on the films in class discussions and other activities using a historical lens. To provide a broader perspective, some foreign films with subtitles will be included. While completing World History may be helpful, it is not required. The course is open to all grades.

C42 A & B U.S. History

Two Semesters, Basic to Advanced level of difficulty

1 credit

Open to: 10th, 11th & 12th

This course is a comprehensive study of the United States from the 20th Century to the present day. This course will take an American perspective with key focus on America’s interaction with the world at large and the ways in which events in the world have shaped the American experience both abroad and on the home front. Students in this course will analyze and then draw a conclusion as to why certain American historical events happened and how these events still influenced our society today. An emphasis will be placed upon reading, writing, and research skills.

C45 Diversity in American History

One semester, Intermediate to Advanced level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

This course explores diversity in America by examining the rich variety of cultures, people, behaviors, and values that have shaped American society. Students will examine in depth the following groups: Native Americans, Hispanic/Latino Americans, African Americans and Asian Pacific Islander Americans and women within each group. Along with studying the cultural contributions to American society of these groups, students will also examine the conditions that created injustice for those people and analyze the consequences of these injustices.

C46 A & B Advanced Placement United States History
(Advanced Placement College Board Authorized Course)

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

This course is a yearlong survey of American History from 1600 to the present. The focus of this course will be on three areas: 1) the major themes, events, and happenings in American History. 2) Preparation for the Advanced Placement Examination in U.S. History. 3) College level study skills (reading, writing-especially for essay tests, note taking, study/review skills). This course is for serious students of history who enjoy the subject and/or a challenge. To succeed in this class requires a great deal of intellectual ability and effort. As critical reading skills are essential to success, it is recommended that all students who take Advanced Placement U.S. History also take challenging English/Literature

courses in their freshman and sophomore years. In a nutshell, we will be reading, writing, and talking about American History every day of the year. **Summer assignment required.**

Prerequisites: Completion of U.S. History or equivalent

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

C48 A & B Advanced Placement European History
(Advanced Placement College Board Authorized Course)

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

Advanced Placement European History is a yearlong, comprehensive survey of the themes, events, characters, and ideas, which have shaped the development of western civilization from the Late Middle Ages (Approx. 1400) to the present. AP European History demands rigorous intellectual effort, independent thinking, and mature critical thinking. Classroom discussion and collaboration are of major importance. This course is intended to develop mature critical thinking and analytical skills in the areas of reading, writing, and verbal expression. Assignments include reading and written analysis of primary and secondary sources, and various college level writing skills from informal journals to essays to formal papers. Additionally, college level note taking and organization skills are developed. Near the conclusion of the course, students are encouraged to take the College Board's Advanced Placement European History examination.

Summer assignment required.

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

C50 A & B Advanced Placement World History
(Advanced Placement College Board Authorized Course)

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

Advanced Placement World History is a yearlong study of the themes and events that have shaped the world as we know it. The course highlights the nature of cultural, institutional, and technological changes and their causes and consequences, as well as comparisons among major societies. Roughly 75% of the course will focus on cultures other than the United States and Europe. In addition to expanding their understanding of world history, the course will help develop the skills necessary to think critically, research diligently, and express themselves maturely. AP World History is designed for students with a passion for history and a desire to think independently. To be successful, students should possess the discipline to put forth serious intellectual effort, the ability to read and analyze college level text, and the skills to express their thoughts maturely in both written assignments and class discussions. Students are encouraged to take the College Board's Advanced Placement World History Examination in the spring. **Summer assignment required.**

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

C66 Current Affairs

One semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

The Current Affairs course examines the social, political, economic, and cultural issues that shape our country and the world today. Students will keep pace with the events shaping the 24-hour news cycle, applying social studies concepts to explore the parts of various issues. Class discussion and participation will be a major part of this course, with an emphasis on sharing views in a way that encourages civility and mutual understanding. The advantages and disadvantages of various forms of media, print and digital, will be explored, and students will examine ways to identify and account for bias in media sources. The goal of the course is to help students be prepared to participate in informed discussion about the questions and challenges facing America and the world. The course is open to all grades.

C60 A & B Advanced Placement Comparative Government & Politics

Two Semesters, Advanced level of difficulty

1/2 creditOpen to: 11th & 12th

Advanced Placement Comparative Government uses concepts from US government and world history to examine politics and government in a number of countries, including Britain, Russia, China, Iran, and others. We will look at what makes a democracy, and how dictatorships and other authoritarian governments (including theocracy and Marxist systems) develop and hold power. The course will consider different ways to build a government in order to protect individual rights, using the US system as a standard of comparison. We will see how citizens, pressure groups, political parties, and the military affect political development, and examine different roles of the government in the economy across different countries and periods of time. This course is designed to prepare students for the AP Comparative Government and Politics exam, allowing them to earn college credit. Comparative Government is an elective and does not meet the US Government graduation requirement. US Government or AP US Government is recommended.

C74 Introduction to Psychology

One semester, Intermediate level of difficulty

1/2 creditOpen to: 10th, 11th & 12th

This 9 week course is for anyone who is interested in learning what the field of psychology is about. This class will cover a broad range of topics that make up the present day study of psychology. Topics will include: Biology and the Brain, Learning and Memory, Personality Theories, Development, Motivation and Emotion, Stress & Health, and Psychological Disorders and Methods of Therapy. This course is a terrific precursor to A.P. Psychology or a great overview of the field for someone who is interested but not yet ready to jump into a yearlong course.

C78 A & B Advanced Placement Psychology**Advanced Placement College Board Authorized Course**

Two Semesters, Advanced level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

Advanced Placement Psychology is a yearlong comprehensive study of psychology that covers the same material as a college level introductory psychology course. Topics include: history & research methods, neuroscience & the brain, personality theories, human development, learning & memory, statistics, sleep & consciousness, social psychology and abnormal psychology. This course demands a high level of discipline to read large amounts of material each night while taking notes. Students are expected to be able to develop well-written essays on learned material and to take timed tests and quizzes over their reading and class notes. This course is designed to prepare students for taking the College Board's A.P. Psychology Exam held in mid-May which enables students with a high enough score to gain college credit for psychology. It is recommended that you have taken Honors Biology as a sophomore and received at least a B- in order to take this course. A good companion course for this class is Anatomy & Physiology. To learn more about this class, or to explore its rules and procedures, please visit the class website at <http://www.portengaclass.com/portengaa>.

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

C84 World Religions

One semester, Intermediate level of difficulty

1/2 creditOpen to: 9th, 10th, 11th & 12th

This course introduces five major religions of the world. Beginning with the Western World, students will explore Judaism, Christianity, and Islam. The Eastern religions, Hinduism and Buddhism, are examined in the second half of the class. Students will become familiar with the cultures and beliefs that make each religion distinct. The class objectives are to develop tolerance of diverse religious cultures, and to explain the relationship between culture and religion. Students will have the opportunity to hear guest speakers throughout the course. No prior knowledge of world religions is required, but an open mind and respectful attitude towards different religions is beneficial.

C86 Economics

One Semester, Intermediate to Advanced level of difficulty

1/2 creditOpen to: 11th & 12th

Economics is the study of the choices and decisions people make about how to use the world's resources. Students will study the basics of economics such as economic systems, supply and demand, market structures, money and banking,

financial markets, business cycles and economic indicators. Students will also study the government's role in the economy and the global economy. This course is required for graduation.

C87 Pay It Forward

One Semester, Moderate level of difficulty

1/2 credit

Open to: 12th

Pay It Forward is a service and project based course serving the West Michigan community. Students will collaborate to explore a focus area of study as a team, develop a driving question, research, produce and present a Senior Project that includes a plan of execution and portfolio reflective of the body of their work. Focus areas may include advocacy, community outreach, agriculture, public policy, or sustainability practices. Students are expected to cultivate relationships with area businesses, organizations, or individuals with whom they will work to develop a plan and project that contributes to the growth of the community.

C88 U.S. Government

One Semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 11th & 12th

This course is the capstone of the Grand Haven High School Social Studies curriculum. The goal of this American Government course is active engagement in public discourse as citizens in our democracy. In addition to active discussion about politics, students in this course may conduct a trial, participate in an election, debate in a legislature, file income tax, and complete other hands-on assignments. The role of service in the community and the rights and responsibilities of citizenship are emphasized. A project will be a part of the class.

C89 A & B Advanced Placement U.S. Government & Politics

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

AP U.S. Government and Politics is a college-level year-long course that not only seeks to prepare students for success on the AP Exam in May, but also provides students with the political knowledge and reasoning processes to participate meaningfully and thoughtfully in discussions and debates that are currently shaping American politics and society. This political science course studies the interconnectedness of the different parts of the American political system and the behaviors and attitudes that shape this system. AP U.S. Government and Politics accomplishes these goals by framing the acquisition of political knowledge around enduring understandings and big ideas about American government and politics that can be applied to a set of disciplinary practices through the use of a set of reasoning processes. By the end of the course, students will be able to analyze current and historical political events like a political scientist and develop factually accurate, well reasoned, thoughtful arguments and opinions that acknowledge and grapple with alternative political perspectives.

Students taking AP U.S. Government are committing to an in-depth study of government and politics conducted over two semesters. Those that do not earn a passing grade during the first semester will be recommended to enroll in regular American Government (1 semester computed on a 4.0 scale) or to complete the test out option in the spring as outlined in the Student Handbook in order to earn their required credit for graduation.

C94 Sports in the 20th Century

One semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

Sports are a reflection of society. This class uncovers issues in society that have left a deep impact on us and previous generations through sports. Issues like Racism, gender equality, steroids, drug use, and political tension will all be examined through sports. Your view of sports in America will be changed forever! The class includes a significant amount of class discussion, and therefore student participation is important. Students do not need a strong background in sports to take the class, just an interest in the topic and willingness to participate.

SCIENCE

Requirements for graduation: **3 credits required**

Requirements for graduation: **3 credits required**

Many next steps after high school would benefit from science coursework beyond the traditional pathway for success. Career paths include but are not limited to: Health Science/Medicine, Computer Science, Engineering & Design, Environmental & Agriculture, and Mathematics/Statistical Analysis.

Science Graduation Requirements

3 Credits of Science including:

1.0 Earth Science

1.0 Biology

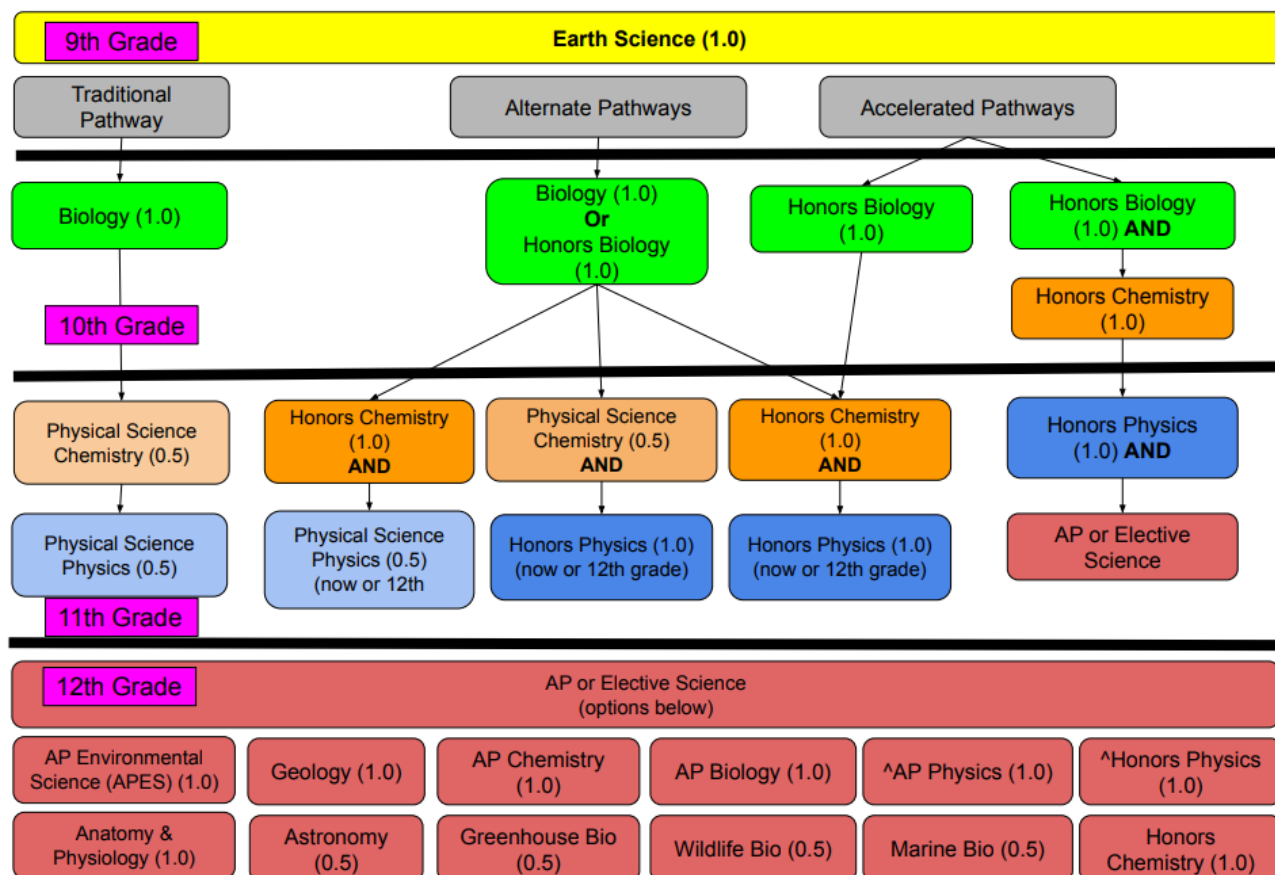
0.5 Chemistry

0.5 Physics

	9th Grade	10th Grade	11th Grade	12th Grade
Traditional Pathway	Earth Science (1.0)	Biology (1.0)	Physical Sci-Chemistry (0.5) and Physical Sci-Physics (0.5)	*Optional additional Science Electives &/or AP course(s)
Alternate Pathways	Earth Science (1.0)	Honors Biology (1.0)	Honors Chemistry (1.0)	^Honors Physics (1.0) or Physical Sci-Physics (0.5) *Science Electives &/or AP course(s)
		Biology (1.0) or Honors Biology (1.0)	Honors Chemistry (1.0) and Physical Science-Physics (0.5)	^Honors Physics (1.0) *Science Electives &/or AP courses
			Honors Physics (1.0) and Physical Science-Chemistry (0.5)	*Honors Chemistry (1.0) *Science Electives &/or AP courses
Accelerated Pathways	Earth Science (1.0)	Honors Biology (1.0)	Honors Chemistry(1.0) and Honors Physics (1.0)	*Science Electives &/or AP courses
		Honors Biology (1.0) and Honors Chemistry (1.0)	Honors Physics (1.0)	*Science Electives &/or AP courses

^Honors Physics & AP Physics count as Senior Math credit when taken during Senior Year.

Grand Haven High School Science Course Map



^Honors Physics & AP Physics count as Senior Math credit when taken during Senior Year.

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Earth Science A/B	D24 A&B	9-12	Earth Science	Yes
Geology	D26	11-12	Elective	Yes
AP Environmental Science A/B	D28 A&B	9-12	Elective	Yes
Biology A/B	D34 A&B	10-12	Biology	Yes
Honors Biology A/B	D37 A & B	10-11	Biology	Yes
Greenhouse Biology	D42	10-12	Elective	Yes
Wildlife Biology	D43	10-12	Elective	Yes
Astronomy	D46	11-12	Elective	Yes
AP Biology A/B	D48 A&B	9-12	Biology/Elective	Yes
Anatomy & Physiology A/B	D49 A&B	11-12	Elective	Yes
Physical Science - Chemistry	D50	11-12	Chemistry	Yes
Honors Chemistry A/B	D55 A&B	11-12	Chemistry	Yes
AP Chemistry A/B	D57 A&B	9-12	Chemistry	Yes
Physical Science - Physics	D60	11-12	Physics	Yes
Honors Physics A/B	D66 A&B	11-12	Physics/Senior Math/Electives	Yes
Physics Applications: Electricity & Electronics	D67	11-12	Elective	Yes
AP Physics A/B	D68 A&B	9-12	Physics/Senior Math/Electives	Yes
Marine Biology	D85	11-12	Elective	Yes

Courses labeled “**Honors**” meet and exceed the Michigan Course Content Expectations. These courses proceed at a faster pace and allow the student to delve deeper into the concepts taught. The student must have met the prerequisites. (See course selective information.)

A course labeled **AP (Advanced Placement)** meets the expectations set by the College Board and is equivalent to a freshman college course. Students taking an Advanced Placement (AP) course may take the AP test for possible college credit.

***NOTE:** Students are allowed to move between levels of course difficulty in different science courses (assuming prerequisites have been met).

D24 A & B Earth Science

Two Semesters, Basic to Intermediate level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

This course is designed to meet the NGSS/MSS curriculum content expectations for Earth Science. In this hands-on, activity-based course, students will study the make-up of the solid Earth and changes that occur on the Earth’s surface. Specific areas of study for D24A include origins of the universe and solar system, life cycle of stars, earth’s early history, plate tectonics, and geologic time. Students will also learn basic science skills, including scientific investigation, lab safety and procedures. D24B focuses on earth’s water systems, including the hydrologic cycle, fresh surface and groundwater, oceans, atmosphere and climate, as well as human’s impact on these systems. (Meets Earth Science Requirement)

D26 Geology

One Semester, Intermediate to Advanced level of difficulty

1 credit

Open to: 11th & 12th

This elective course is structured as a college introductory geology course, applicable to any student planning to pursue a science-related degree. Students in this course will use scientific principles to study geologic concepts and build on their understanding of Earth processes. Topics include rock and mineral resources, glaciations, global tectonics, volcanism, weathering, erosion, shoreline dynamics, and geology of the Great Lakes region. Labs and field trips are an integral part of this course. Students who receive an adequate score on the final exam will receive four hours of free college credit through Grand Valley State University, transferable to many other colleges and universities in the State.

Prerequisite: Chemistry or Physics (May be taken concurrently)

D28 A & B Advanced Placement Environmental Science

(Advanced Placement College Board Authorized Course)

Two Semesters, Advanced level of difficulty

1 credit

Open to:
9th & 10th 11th & 12th

APES is equivalent to a one semester, introductory college course in environmental science. Interdisciplinary study of ecology, geology, chemistry, biology, geography, and social studies from the basis to examine interrelationships of the natural world. It is the right choice for students who will pursue a science based degree, those who wish to gain college credit for an elective class, or those who have interest in the inner workings of the environment. Various labs and activities occur in this course, with a stress on observation, and data collection. **Summer assignment required.**

Prerequisite: Earth Science, Biology & Chemistry (Chemistry may be taken concurrently).

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required and the student’s 1st semester grade will be factored on a 4.0 scale.

D34 A & B Biology

Two Semesters, Basic to Intermediate level of difficulty

1 credit

Open to: 10th, 11th & 12th

Biology is a lab based course that will explore life science topics through the use of science investigations, discussions, modeling activities, projects, and presentations. This course is designed to meet the State of Michigan curriculum content expectations for Biology. Students will use NGSS science practices and develop data analysis skills during each instructional unit. Units of study in Biology A include ecology, biochemistry, cells, and energy. Units of study in Biology B include cell division, DNA/RNA structure and function, genetics, biotechnology, evolution, and homeostasis of the human body. (Meets Biology Requirement)

D37 A & B Honors Biology

Two semesters (A&B). Advanced Level of Difficulty.

1 credit

Open to: 10th & 11th

Taken in place of Biology, this course is designed for the student planning to pursue a four-year degree involving science, medicine, math or engineering. This course is designed to meet and exceed the State of Michigan curriculum content expectations for Biology. Honors Biology covers the same unit concepts as Biology, but at a faster pace with time for deeper concept understanding. Units of study include ecology, biochemistry, cell structures/functions, microbiology, cell energetics & division, genetics & biotechnology, evolution, and human body systems. Dissection is an integral part of the body systems and students are expected to participate in dissections.

(Meets Biology Requirement)

Students selecting Honors Biology may not take Biology for credit as well. Students may take Honors Chemistry or Honors Physics concurrently.

D42 Greenhouse Biology

One Semester, **Offered Second semester only**,
Basic to Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

In this elective course, students will learn basic plant biology and how to grow plants under a variety of conditions (indoor/outdoor). Topics include soils and fertilizers; structure and function of plants; plant reproduction and cloning; houseplant care; gardening; landscape design and maintenance as well as identification of local trees and plants. The course is very hands-on and includes many outdoor projects and field trips.

D43 Wildlife Biology

One Semester. Basic to Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

In this elective course students will study the biology of fish, birds and mammals. Topics include wildlife/habitat management for common Michigan wildlife. Great Lakes ecology, fisheries management and environmental issues are also covered. Students will learn the anatomy, habits and adaptations of fish, birds and mammals. Students will also learn to identify common Michigan wildlife. The course also includes a unit on outdoor survival. Students will learn through a variety of hands-on projects, dissections, videos and labs.

D46 Astronomy

One semester. Basic to Intermediate level of difficulty

1/2 credit

Open to: 11th & 12th

In this elective course, students will be exposed to astronomical concepts of space, including the birth and structure of the universe, galaxies, stellar evolution, constellations, tools of astronomy and observation, space exploration, and the search for extraterrestrial life.

D48 A & B Advanced Placement Biology

(Advanced Placement College Board Authorized Course)

Two Semesters. Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

AP Biology is a challenging elective course that is equivalent to two semesters of college biology. It is the right choice for students who may want to pursue a science degree. College credit can be earned by students who attain a satisfactory score on the College Boards AP Biology exam that is offered each May. Units of study adhere to the College Board requirements and include ecology, chemistry of life, cell structure, cell energetics, cell communication, heredity, gene expression, and natural selection. Each unit of study offers students a chance to design and conduct investigations. The investigations often involve advanced techniques, equipment, and data analysis strategies that require group communication and collaboration. **A summer assignment is assigned and required.**

Prerequisite: Biology A & B and Chemistry (may be taken concurrently).

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a

student needs to drop an AP course after 1st semester, administrative approval will be required and the student's 1st semester grade will be factored on a 4.0 scale.

D49 A & B Anatomy & Physiology

Two Semesters, Intermediate to Advanced level of difficulty

1 credit

Open to: 11th & 12th

This elective course is primarily a senior level course (open to juniors) and is designed for students who are anticipating a career/program in medicine or other related health field careers. It is also designed to allow the student to gain a deeper knowledge of the anatomy and physiology of the body as well as prepare the student for greater success in the more rigorous college level Biology courses. Students in this course will study the anatomy of the human body systems & tissues, explaining their relationships and how/why they work. Class time requires in-depth study and dissection of a cat and other mammalian body organs. Other topics discussed or performed throughout both semesters are organ donation, drug & disease awareness and school Blood blood drives. Topics covered in this course are: Body Overview, Cells, Skin, Bones, Muscles, Blood, Circulation, Respiration, Brain, Digestion, Excretion, Reproduction, Pregnancy (growth & development), & detailed cat dissection. This course is a good companion course to AP Psychology, AP Biology and/or AP Physics.

D50 Physical Science-Chemistry

One Semester. Basic to Intermediate Level of Difficulty

1/2 credit

Open to: 11th & 12th

This course is designed to meet the State of Michigan curriculum content expectations for physical science with an emphasis on chemistry. Chemistry is the study of matter, its structure, properties, and the changes it undergoes. Students in Physical Science-Chemistry will study the structure of the atom, the periodic table, energy and bonds, changes in energy, electrical forces and matter, and interactions between particles. This course includes hands-on laboratory activities used to support the three-dimensional learning of science (Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts) in the classroom.

(Meets Chemistry Requirement)

This class may be taken concurrently with other science courses. Taking this class does not prevent a student from taking the year-long Chemistry course in later semesters.

Prerequisites: Successful completion of Earth Science and Biology

D55 A & B Honors Chemistry

Two Semesters, Intermediate to Advanced level of difficulty

1 credit

Open to: 10th, 11th & 12th

Honors Chemistry is for students who are interested in or planning a career in a STEM-related field such as Health Science, Medicine, Computer Sciences, Engineering and Design, Environmental or Agricultural Studies, Mathematics, and/or Statistical Analysis. The course is designed to meet and exceed the State of Michigan science standards for Chemistry. Honors Chemistry will provide learning opportunities that focus on the structure and properties of matter, energy, and chemical reactions. This course is more in-depth with greater expectations of students to do work outside of class than Introductory Chemistry. Honors Chemistry will help prepare students for future college level chemistry courses and/or careers.

Topics for Honors Chemistry A include significant figures in measurement, atomic structure, nuclear chemistry, the periodic table, electron configurations, bonding and geometry, writing chemical formulas, naming compounds, and chemical reactions. Learning in this course is supported with investigations, modeling, data analysis, and discussions. Topics for Honors Chemistry B include the states of matter (gases, liquids and solids) and their properties, energy of chemical reactions, solution chemistry, kinetics, acid-base chemistry, and equilibrium. This course includes hands-on investigations, data analysis, and discussions used to support learning in the classroom. *(Meets Chemistry Requirement)*

Students selecting Honors Chemistry A & B may not take Physical Science - Chemistry for credit as well.

Prerequisite: Successful completion or concurrent enrollment in Algebra II A and Algebra II B (B or better average)

D57 A & B Advanced Placement Chemistry
(Advanced Placement College Board Authorized Course)

Two Semesters. Advanced level of difficulty.

1 credit

Open to: 9th, 10th, 11th & 12th

AP Chemistry is designed to prepare students who want to take the annual AP Chemistry test in May. AP Chemistry students must have taken Honors Chemistry A and Honors Chemistry B. AP Chemistry is designed to be the equivalent of the general chemistry course usually taken during the first year of college. This means the students in AP Chemistry must spend a great deal of time outside of class studying and working on problems on their own in order to fully understand the principles of chemistry.

For some students, this course enables them to undertake, in their first year of college, second-year work in the chemistry sequence at their institution, or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses.

AP Chemistry meets the objectives of a good college general chemistry course. Students in such a course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course should contribute to the development of the ability to think clearly and to express ideas, orally and in writing, with clarity and logic.

The curriculum for this class includes study of the following six Big Ideas:

Big Idea 1: The chemical elements are fundamental building materials of matter, and all matter can be understood in terms of arrangement of atoms. These atoms retain their identity in chemical reactions.

Big Idea 2: Chemical and physical properties of materials can be explained by the structure and the arrangement of atoms, ions, or molecules and the forces between them.

Big Idea 3: Changes in matter involve the rearrangement and/or reorganization of atoms and/or the transfer of electrons.

Big Idea 4: Rates of chemical reactions are determined by the details of the molecular collisions.

Big Idea 5: The laws of thermodynamics describe the essential role of energy and explain and predict the direction of changes in matter.

Big Idea 6: Any bond or intermolecular attraction that can be formed can be broken. These two processes are in a dynamic competition, sensitive to initial conditions and external perturbations.

Recommendation: Honors Chemistry A and Honors Chemistry B (B average or better) and Honors Algebra II A and Honors Algebra II B (B average or better).

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

D60 Physical Science-Physics

One semester. Basic to Intermediate Level of Difficulty

1/2 credit

Open to: 11th & 12th

This course is designed to meet the State of Michigan curriculum content expectations for physical science with an emphasis on physics. Students in Physical Science-Physics will study the fundamental laws that govern all interactions between matter and energy, electric and electromagnetic energy, and forces, energy and motion. This course includes hands-on laboratory activities used to support the three-dimensional learning of science (Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts) in the classroom. *(Meets Physics Requirement)*

This class may be taken concurrently with other science courses. Taking this class does not prevent a student from taking the year-long Physics course in later semesters.

Prerequisites: Successful completion of Earth Science and Biology

D66 A & B Honors Physics

Two semesters (A & B), Intermediate to Advanced level of difficulty

1 credit

Open to: 11th & 12th

For seniors, this course may count for your senior year math course. Honors Physics is for students who are interested in or planning a career in a STEM-related field, such as Health Science, Medicine, Computer Sciences, Engineering and Design, Environmental or Agricultural Studies, Mathematics and/or Statistical Analysis. Most any STEM related career relies heavily on the understanding and application of fundamental physics concepts learned in this course. This course is designed to meet and exceed the State of Michigan science standards for Physics.

Honors Physics A is designed to cover the same topics as the 1st semester of the AP Physics course. The only difference is that AP Physics is calculus based. This design affords the student unique opportunities to tailor their education to best meet their needs. For example, a student who is enrolled in AP Physics without having taken the Honors Physics course may, at the semester break, elect to, 1) continue studying AP Physics B and add the 2nd semester of Honors Physics (which covers topics not studied in AP Physics), or 2) switch from the study of AP Physics to that of Honors Physics allowing them to retain all the benefits (transcript, graduation requirements, etc) associated with a yearlong physics course. Please see the instructor for these courses if you have questions on how to best plan your path.

In Honors Physics A, students will study the following topics: **Kinematics**, (mathematical description of motion, including topics such as free fall and projectile motion); **Dynamics** (Forces and Interactions, Newton's Laws of Motion, Circular Motion); and **Conservation Laws** related to energy and momentum.

Honors Physics B will diverge from the AP Physics course at this point, covering topics such as **Mechanical Waves and Wave Properties**, the **Nature of Sound and Light** (including reflection, refraction and optics), basic **Electricity and Magnetism**, and, time permitting, **Nuclear Energy**. These essential physics topics are not part of the AP Physics curriculum.

(Meets Physics Requirement)

Students selecting Honors Physics A & B may not take Physical Science-Physics for credit as well.

Prerequisite: Successful completion of Algebra IIA and Algebra IIB.

D67 Physics Applications: Electricity & Electronics

One semester. Intermediate level of difficulty.

1/2 credit

Open to: 11th & 12th

This elective course is designed to enhance the State of Michigan objectives relating to electricity as a component of the physics objectives. This is a practical course in electricity serving as a complement to the Honors Physics A and B sequence, or the Physics A and B sequence. However it may be taken independently of the physics sequences with instructor approval. Topics include DC and AC circuit analysis, Ohm's Law, Series/Parallel/Combination circuits, Electrical Power, Transformers, and Capacitive/Inductive Circuits. Laboratory work is frequent and will involve larger projects including the building of power supplies and strobe lights.

Prerequisite: Concurrent enrollment or successful completion of Physics A/B or Physical Science - Physics and Algebra II

D68 A & B Advanced Placement Physics C: Mechanics (Calculus Based)

Two semesters (A & B) Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

For seniors, this course may count for your senior year math course. It is ideal for students who have already taken calculus and are looking for ways to apply their mathematical and science skills in ways that best prepare them for STEM related careers. You are permitted to take AP Physics without having taken the full year Honors Physics course, but this is discouraged. Such a pathway may lead to burn out due to the accelerated pace and large laboratory component associated with AP Physics. Please be certain to read through the Honors Physics course description (above) so that you can determine a path that works best for you.

The 1st semester of AP Physics covers exactly the same topics as those studied in Honors Physics A. The only difference is that calculus is relied upon to extend the essential physics knowledge gained in either course. In the 1st semester, students will study the following topics: **Kinematics**, (mathematical description of motion, including topics such as free fall and projectile motion); **Dynamics** (Forces and Interactions, Newton's Laws of Motion, Circular Motion); and **Conservation Laws** related to energy and momentum.

The 2nd semester of AP Physics explores advanced topics in Newtonian Mechanics, including **Center of Mass**, **Rotational Mechanics and Dynamics**, **Conservation of Angular Momentum**, **Simple Harmonic Motion**, and the **Universal Law of Gravity**. Topics such as these are more narrowly focused and most relevant only to students interested in advanced preparation for highly technical fields such as engineering and other physical science related careers.

Students electing to take AP Physics without having taken Honors Physics B will be required to complete some additional work related to essential physics content but not part of the AP Physics curriculum (i.e. phenomena related to waves and electricity and magnetism). Such study is relatively minor in amount and assigned after completion of the AP Physics exam.

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required and the student's 1st semester grade will be factored on a 4.0 scale.

D85 Marine Biology

One Semester. Intermediate Level of Difficulty

1/2 credit

Open to: 11th & 12th

This course is designed for the student interested in marine biology, and is not designed to meet all the State of Michigan curriculum content expectations for Biology. This science course will cover the following topics: formation of the ocean, different types of marine organisms and environments, and human impacts on the marine biome. Dissection of specimens is an integral part of this course and students are expected to participate in the dissection of a starfish, shark, and squid; the course also includes a field trip to Shedd Aquarium in Chicago (fundraising opportunity will be available).

Prerequisite: Biology A and Biology B OR Honors Biology A and Honors Biology B

MATH

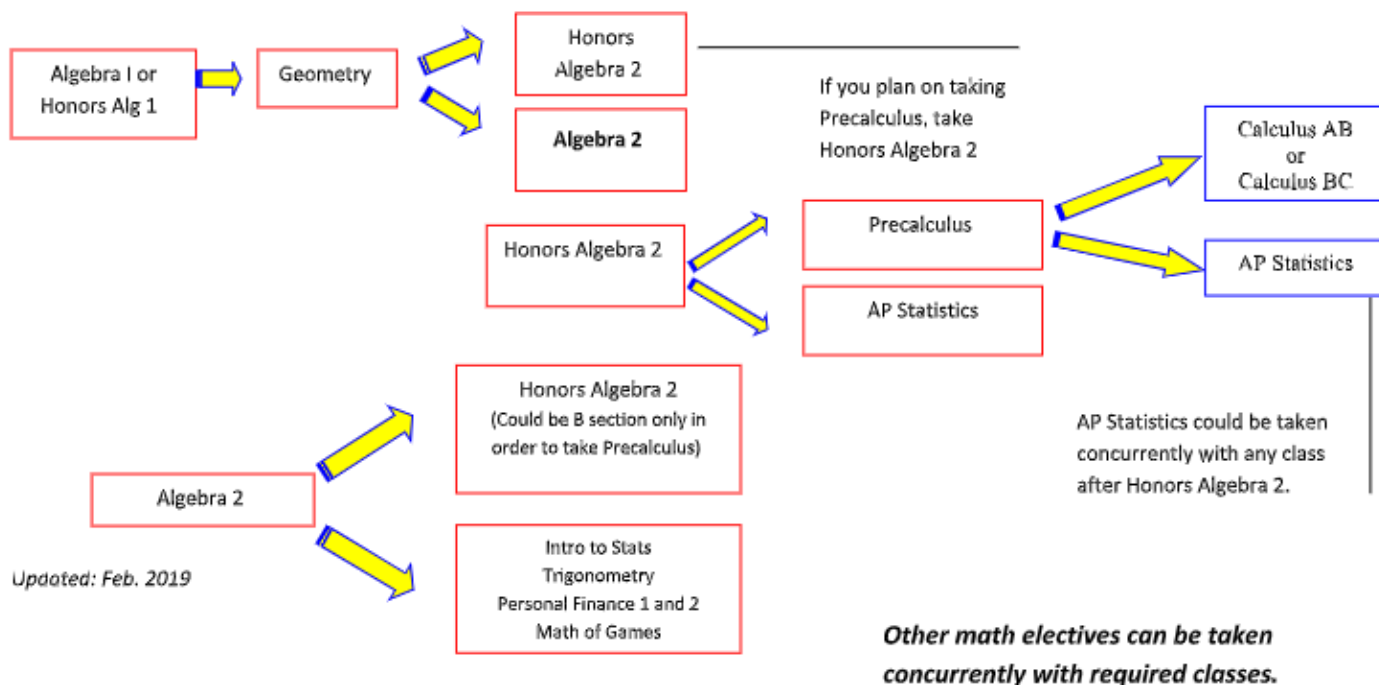
Mathematics Graduation Requirements

4 Credits of Math including:

- Algebra 1 (or Honors Algebra 1)
- Geometry
- Algebra 2 (or Honors Algebra 2)
- 1.0 Credit during Senior Year

****All students must be enrolled in a math class until they have completed the state required Michigan Merit Examination (MME).***

	7 th Grade	8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Traditional (>60% of students)	7 th Grade Math	8 th Grade math	Honors Algebra 1 or Algebra 1	Geometry	Honors Algebra 2	Precalculus
Excelled (30% of students)	7 th Grade Math	Honors Algebra 1	Geometry	Honors Algebra 2	Precalculus	Calculus AB
Advanced (up to 5% of top students and motivated)	Honors Algebra 1	Geometry	Honors Algebra 2	Precalculus	Calculus AB or Calculus BC	Calculus BC
Alternate	7 th Grade Math	8 th Grade math	Algebra 1	Geometry	Algebra 2	Trig/IntroStats/ Per Fin/Math of Games



Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Algebra I A/B	E20 A&B	9-12	Algebra I	Yes
Honors Algebra I A/B	E21 A&B	9	Algebra I	Yes
Geometry A/B	E30 A&B	9-12	Geometry	Yes
Math of Games	E34	12	Senior Math/Elective	
Personal Finance & Investing	E35	12	Senior Math/Elective	
Personal Finance & Investing II	E36	12	Senior Math/Elective	
Data Analysis	E37	12	Senior Math/Elective	
Honors Algebra II A/B	E40 A&B	9-12	Algebra II	Yes
Math Workshop	E41 A&B	9-12	Elective	
Algebra II A/B	E45 A&B	11-12	Algebra II	Yes
Algebra II A/B - Blended Option	E46 A&B	11-12	Algebra II	
Pre-Calculus A/B	E50 A&B	9-12	Senior Math/Elective	Yes
Pre-Calculus A/B - Blended Option	E51 A&B	10-12	Senior Math/Elective	
Trigonometry	E53	9-12	Senior Math/Elective	Yes
Statistics	E56	9-12	Senior Math/Elective	Yes
AP Statistics A/B	E60 A&B	9-12	Senior Math/Elective	Yes
AP Calculus AB A/B	E70 A&B	9-12	Senior Math/Elective	Yes
AP Calculus BC A/B	E80 A&B	9-12	Senior Math/Elective	Yes

E20 A & B Algebra I

Two Semesters, Basic level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

Algebra 1A builds upon knowledge to recognize and solve mathematical and real-world problems involving linear relationships and to make sense of and move fluently between the graphic, numeric, symbolic, and verbal representations of these patterns. Algebra I A builds on the approach to the study of functions and representations begun in the middle grades. This is done by broadening the study of linear relationships to include absolute value equations, systems of equations with two and three unknowns, formalized function notation, and linear regression and correlation. Algebra I B builds upon knowledge of linear patterns of change and familiarity with nonlinear patterns such as exponential and

quadratic. The knowledge of exponential and quadratic function families is extended and deepened by including topics such as rules of exponentiation, operations and factoring polynomials, and standard and vertex forms for quadratic equations. Students will also develop their knowledge of power functions and the applications they model. Finally, Algebra I B expands the number domain from real to complex numbers. ***Algebra I is a requirement for graduation and preparation for their high school math proficiency test.*** A scientific calculator or a graphing calculator is required.

E21 A & B Honors Algebra I

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th – teacher recommendation

Honors Algebra I is taught at an accelerated rate and depth of Algebra I. See descriptions above for topics covered in Algebra. **Students will be placed by teacher recommendation.**

E30 A & B Geometry

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

Geometry is a two-semester course that is required for graduation. Geometry stresses the ability to reason logically and to think critically. Geometry A focuses on logical thinking and proof, foundations of Euclidean Geometry, parallel and perpendicular lines, relationships and properties of triangles, polygons and quadrilaterals.

Prerequisite: Successful completion of Algebra I A and B or Honors Algebra I A and B.

E34 Math of Games

One Semester, Intermediate level of difficulty

1/2 credit

Open to: 12th only

Students in this course will investigate the mathematical components of various traditional games (dice games, card games, board games, multicultural games, lotteries, television games, Rubik's cube, Sudoku, Scrabble, pool, miniature golf and more.) Concepts from Algebra, Geometry, and Discrete Math will be implemented to determine outcomes, probabilities, and most effective strategies.

E35 Personal Finance and Investing

One Semester, Intermediate level of difficulty

1/2 credit

Open to: 12th only

This one semester class assists students in developing a personal strategy of money management and investment. The various topics covered include budgeting, wants vs. needs, credit card use and misuse, college costs, career earnings, financing a home, consumer loans, investment risk vs. reward, compound interest, stocks, bonds, mutual funds, retirement plans, real estate, insurance, and portfolio allocations. Throughout the course, guest speakers from a variety of financial disciplines may visit the classroom to lend their expertise. The class goal is to educate students so they may take control of their financial lives, and ultimately become financially secure and independent

Prerequisite: Algebra I A and B

E36 Personal Finance and Investing II

One Semester, Intermediate level of difficulty

1/2 credit

Open to: 12th only

This one semester class will cover the following financial topics: Job applications/resume/cover letters, interviews, consumer decisions/protection, renting/leasing, taxes, home equity, present value analysis, options, futures, wills/trusts, exchange rates, budgeting, saving and investing (Stocks/Bonds/Mutual Funds/Real Estate, ETF's, FOREX), Insurance, Retirement, Automobile/Home Purchasing.

Prerequisite: Successful completion of Personal Finance & Investing with a grade of "B" or higher.

E37 Data Analysis

One Semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 12th only

This course will keep students active by recording temperatures of coffee, heights of bouncing balls, times of falling objects, revenue of movies, intensity of light and much more to create mathematical models which could be used to extrapolate the data. Students will learn various ways of organizing and displaying the collected data. Class content will focus on the theory of conceptual ideas and the applications of math. Students will review content from Algebra using manipulatives and activities and learn the basics of statistics including the normal curve.

Prerequisite: Successful completion of Geometry A & B

E40 A & B Honors Algebra II

Two Semesters, Intermediate level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

Honors Algebra II will help in a critical understanding of algebraic processes, practices, and procedures. Among the areas to be considered are: organization and understanding of a mathematical system and the critical factors used in solving problems involving applications. The course is designed to help students increase their familiarity with the nature of algebra. In this term there is an emphasis on solving and graphing equations, systems of equations, quadratics, and properties of exponents. Honors Algebra IIB is the second semester Honors Algebra II class. In this semester there is an emphasis on logarithms, rational expressions, sequences and series, probability and statistics, and trigonometry. A graphing calculator is strongly recommended.

Honors Algebra II must be taken if a student's plans on taking Pre-calculus.**Prerequisite: Successful completion of Geometry A & B****E41 A & B Math Workshop**

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th - 12th

This class is designed for students wishing to improve their basic math skills. Instruction is focused on bringing each student further in his or her development of skills and encouraging the basic math skills necessary for academic success. Particular emphasis is placed on the master of pre-algebraic skills and the traits of a good math student. A variety of methods and support will aid the student in their other academic classes. Class participation in all activities is essential for each student in the course. Discretion of the teacher to be released for replacement with an elective course after Workshop A. **Teacher recommendation required for selected students only.**

E45 A & B Algebra II

Two Semesters, Intermediate level of difficulty

1 creditOpen to: 11th & 12th

Algebra II A provides those students encountering difficulties understanding algebraic concepts a less vigorously paced course of algebraic processes, practices, and procedures. **Those students who plan on enrolling in Pre-Calculus in the following year should not take Algebra II or will need to additionally enroll in Trigonometry with this course.** A graphing calculator is strongly recommended. Part A will review concepts taught in Algebra I and build skills to solve systems of equations with two or more variables. Part B will focus on functions: power, inverse, logarithmic, and rational. We will also work with rational expressions and conics.

Prerequisite: Successful completion of Geometry A and B**E46 A & B Algebra II - Blended Option**

Two Semesters, Intermediate level of difficulty

1 creditOpen to: 11th & 12th

Blended Algebra II provides students who are self learners to learn algebraic concepts at their own pace. The course also allows for students who struggle with algebraic concepts, processes, and procedures to receive more one on one help with a teacher during normal class hours. Blended Algebra II is designed to be a flexible learning environment to ensure success for all. ***Students must maintain a B- or higher in any blended course in order to be allowed to work outside the class on "blended" days.***

E50 A & B Pre-Calculus

Two Semesters, Advanced level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

Pre-Calc A deals with the topics of functions including polynomial functions, rational functions, exponential functions, logarithmic functions, and trigonometric functions. Pre-Calc B deals with the subjects of: linear systems and matrices, sequences and series; probability, analytical geometry, a formal and intuitive approach to the study of limits; an introductory study of derivatives and their graphical applications; an informal introduction to integration and its application to areas and volumes. A strong emphasis is placed on preparing the student for calculus. A graphing calculator is recommended.

Prerequisite: Successful completion of Honors Algebra II A & B

E51 A & B Pre-Calculus - Blended Option

Two Semesters, Advanced level of difficulty

1 creditOpen to: 10th, 11th & 12th

Blended Pre-Calculus will cover the same content as regular Pre-Calculus. The class uses previously made videos along with a variety of websites and learning management systems to facilitate student learning. Blended days will allow students who are struggling with material or need additional time to work within small groups of students, work in small groups with the teacher, and have additional time to complete a variety of work including prior skills needed and new content. Blended Pre-Calculus is designed to be a flexible learning environment to ensure success for all while having high expectations on student commitment to learning. ***Students must maintain a B- or higher in any blended course in order to be allowed to work outside the class on "blended" days.***

E53 Trigonometry

One Semester, Advanced level of difficulty

1/2 creditOpen to: 9th, 10th, 11th & 12th

This is a one semester class presenting the trigonometric functions first from the unit circle approach and then by using right triangles. In addition to trigonometric functions and their graphs, emphasis is placed on the law of cosines, the law of sines, and applications of trigonometry. A graphing calculator is strongly recommended.

Prerequisite: Successful completion of Honors Algebra II A & B or Algebra II A & B**E56 Statistics**

One Semester, Advanced level of difficulty

1/2 creditOpen to: 9th, 10th, 11th & 12th

This is a one semester class focusing on the ability to use statistical methods to interpret real-life data from newspapers, magazines, and other sources. Covers probability theory, the binomial probability distribution, normal distributions, sampling distributions, estimation, hypothesis testing, regression and correlation. A graphing calculator is strongly recommended.

Prerequisite: Successful completion of Honors Algebra II A & B or Algebra II A & B**E60 A & B Advanced Placement Statistics**

Two Semesters, Advanced level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

The Advanced Placement Statistics course is an excellent option for any student who has successfully completed a second year course in algebra, and is planning on attending college, regardless of intended college major. In college, at least one statistics course is typically required for majors such as engineering, psychology, sociology, health science, and business. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

- Exploring Data: Observing patterns and departures from patterns
- Planning a Study - Deciding what and how to measure
- Anticipating Patterns - Producing models using probability and simulation
- Statistical Inference - Confirming models

This course meets all the requirements of the Advanced Placement Program and will prepare students to qualify for the advanced placement statistics examination, as administered by The College Board. Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college statistics course. A TI-84 graphing calculator is strongly recommended.

Prerequisite: Successful completion of Honors Algebra II A & B

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

E70 A & B Advanced Placement Calculus AB

Two Semesters, Advanced level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

This course involves the study of the calculus of a single variable. It begins with an intuitive treatment of differential and integral calculus in reference to trigonometric, algebraic, inverse and logarithmic functions. Applications to analytic geometry, maxima and minima, area and volume and other physical phenomena are studied. The course meets the requirements established by the College Entrance Examination Board and successful students are encouraged to take the Advanced Placement Calculus AB test in May. **Successful completion of the AB test will replace the FIRST semester of college calculus.** A graphing calculator is strongly recommended.

Prerequisite: Successful completion of Pre-Calculus

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

E80 A & B Advanced Placement Calculus BC

Two Semesters, Advanced level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

A.P. Calculus BC is a fast-paced alternative for our most advanced math students seeking to maximize their Advance Placement opportunities. This is a year-long class that contains all of the material covered in A.P. Calculus AB plus the calculus of polar equations, parametric equations, differential equations and series. Material will be covered at an accelerated rate in order to prepare students for the BC Calculus Exam in May. **Successful completion of the BC test will replace the FIRST TWO semesters of college calculus.** (Note: a subscore of this test is automatically given to judge the qualification of a student for just the first semester of college calculus topics, those covered in A.P. Calculus AB). A graphing calculator is strongly recommended.

Prerequisite: A.P. Calculus AB or a strong Precalculus student**Teacher recommendation required**

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

WORLD LANGUAGES

Requirement for Graduation: 2 Credits – two years of one language are required to graduate.

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Spanish I A/B	F36 A&B	9-12	World Language/Elective	Yes
Spanish II A/B	F46 A&B	9-12	World Language/Elective	Yes
Spanish III A/B	F56 A&B	9-12	World Language/Visual Performing Arts/Elective	Yes
Spanish IV A/B	F66 A&B	9-12	World Language/Visual Performing Arts/Elective	Yes
AP Spanish A/B	F68 A&B	9-12	World Language/Visual Performing Arts/Elective	Yes
German I A/B	F34 A&B	9-12	World Language/Elective	Yes
German II A/B	F44 A&B	9-12	World Language/Elective	Yes
German III A/B	F54 A&B	9-12	World Language/Visual Performing Arts/Elective	Yes
German IV A/B	F64 A&B	9-12	World Language/Visual Performing Arts/Elective	Yes
German V A/B	F74 A&B	9-12	World Language/Visual Performing Arts/Elective	Yes
English as a Second Language-Directed Study	ESL-DS	Teacher Recommended	Elective	

SPANISH

F36 A & B Spanish 1

Two Semesters, Basic level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

Students will learn the four basic language skills: listening, speaking, reading, and writing. In basic social and cultural situations, students will learn how to use the language appropriately, focusing on topics such as expressing likes and dislikes, personality traits, classroom items, and locations in a school. These situations will form the focal point for developing skills through the study of vocabulary, grammar, dialogues, readings, hands-on activities, food and beverages, health, leisure activities, feelings and accepting or declining invitations.

Cultural materials emphasize geography and the way of life of the Spanish-speaking world.

F46 A & B Spanish 2

Two Semesters, Basic level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

Students will expand upon the listening, speaking, reading, and writing skills in a practical and cultural setting utilizing vocabulary and complex grammar concepts. Spanish 2A will cover 3 chapters, including vocabulary relevant to family and festivities, describing people, ordering a meal, rooms and items in a house, household chores, clothing and shopping. Spanish 2B will cover 3 chapters, including vocabulary relevant to activities and vacation places, recycling and volunteer work, television shows and movie genres, computer and communication technology, classroom items and activities, and extracurricular activities.

Prerequisite: Successful completion of Spanish 1; a grade of C- or better is strongly recommended.

F56 A & B Spanish 3

Two Semesters, Intermediate level of difficulty

1 credit

Open to: 10th, 11th & 12th

Students will review and expand upon the skills learned in Spanish 1A through 2B. They will review and expand on grammatical concepts, vocabulary, and expressions. Speaking and writing will be emphasized based on everyday situations and readings. Topics in Spanish 3A will include daily routines, getting ready for events, shopping, running errands, locations in a town, driving terms, modes of transportation, toys and childhood memories, holidays and family celebrations. Topics in Spanish 3B will include natural disasters, health and wellness, television programs, and cinema, cooking and items in a kitchen, camping and cookouts

Prerequisite: Successful completion of Spanish 2; a grade of C- or better is strongly recommended.

F66 A & B Spanish 4

Two Semesters, Intermediate level of difficulty

1 Credit

Open to: 11th & 12th

On an advanced level, students will review and expand upon the listening, speaking, reading, and writing skills learned in Spanish 1A through 3B. These skills will be presented in practical and cultural contexts. Topics in Spanish 4A will include traveling and tourist tips, professions and future plans, environmental issues, hiking and camping, weather, athletic events, and art and music. Topics in Spanish 4B will include health and wellness, exercise, personality traits and behaviors, jobs and volunteer work, professions and qualities of good employees, technology and inventions in the future. This course is primarily conducted in Spanish.

Prerequisite: Successful completion of Spanish 3; a grade of C- or better is strongly recommended.

F68 A & B Advanced Placement Spanish

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

On an advanced level, students will review and expand upon skills learned in Spanish 1A through 4B. This class will review all grammar concepts learned in past levels and establish a deeper understanding of the structure of the language. Class is conducted in Spanish only. Students will write in a daily journal, watch videos online to review grammar concepts for weekly quizzes, and complete a different presentation every week. Our goal is to apply the vocabulary and grammar from previous classes to be able to use Spanish only in writing and speaking.

Prerequisite: Successful completion of Spanish 4; a grade of C- or better is strongly recommended.

GERMAN

F34 A & B German 1

Two Semesters, Basic level of difficulty

While acquiring German vocabulary and basic grammatical structures, students will learn how to function appropriately in basic social and cultural situations. Various situations such as shopping, travel, sports, restaurant visits, family, school, and home form the focal point for developing listening, speaking, reading, writing skills, clothing, shopping, helping at home, weather, free time, and food.

1 creditOpen to: 9th, 10th, 11th & 12th**F44 A & B German 2**

Two Semesters, Basic level of difficulty

Students will review and expand upon the listening, speaking, reading, and writing skills acquired through German 1B. Students will study these skills in practical contexts such as getting around town, films, music, literature, holidays, and festivals, chores, gifts, photography and filming, architecture, travel accommodations, keeping fit, and healthy eating.

Prerequisite: Successful completion of German 1; a grade of C- or better is strongly recommended.**1 credit**Open to: 9th, 10th, 11th & 12th**F54 A & B German 3**

Two Semesters, Intermediate level of difficulty

Students will review and expand upon the listening, speaking, reading, and writing skills acquired through German 2B. Students will study these skills in practical contexts such as personal health, injuries, towns, houses, vehicles, clothing, automobiles and driving, television, international cuisine, cooking, vacation resorts, food, personal injuries, and errands.

Prerequisite: Successful completion of German 2; a grade of C- or better is strongly recommended.**1 credit**Open to: 10th, 11th & 12th**F64 A & B German 4**

Two Semesters, Intermediate level of difficulty

Students will review and expand upon the listening, speaking, reading, and writing skills acquired through German 3B. Students will study these skills in practical contexts such as European and German geography, city sights, family, transportation, games, automobiles, hiking and free time, school, jobs, health and nutrition, and sports.

Prerequisite: Successful completion of German 3; a grade of C- or better is strongly recommended.**1 credit**Open to: 11th & 12th**F74 A & B German 5**

Two Semesters, Advanced level of difficulty

On an advanced level, students will review and expand upon the skills learned in German 1A through 4B, including a significant increase in listening, speaking, reading, writing, and cultural activities. These skills will be presented in practical and cultural contexts. Topics will include interpersonal relationships, the media, the military and civil service, the environment, the arts, plans for the future, etc. This course is conducted primarily in German.

Prerequisite: Successful completion of German 4; a grade of C- or better is strongly recommended.**1 credit**Open to: 12th only**ESL-DS English As A Second Language-Directed Study**

One Semester, Basic to Intermediate level of difficulty

This is a course designed specifically for students whose first language is a language other than English. Students will acquire basic social and academic language skills through intensive grammatical, contextual, and cultural English instruction. Students will be exposed to a variety of listening, speaking, reading and writing exercises to enhance English Proficiency. Students will also receive support to ensure success in other academic areas.

1/2 creditOpen to: 9th, 10th, 11th & 12th

BUSINESS

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Google Bootcamp	G24	9-12	Elective	
Digital Design	G38	10-12	Visual Performing Arts/Elective	
Digital Design II	G48	10-12	Visual Performing Arts/Elective	
AP Computer Science (JAVA) A/B	G58 A&B	9-12	Visual Performing Arts/Senior Math/Elective	
AP Computer Science Principles A/B	G59 A&B	9-12	Visual Performing Arts/Senior Math/Elective	
Sports & Entertainment Marketing A/B	G60 A&B	10-12	Visual Performing Arts/Elective	
Marketing/Sales A/B	G62 A&B	10-12	Visual Performing Arts/Elective	
Computer Programming	G83	9-12	Senior Math/Elective	
Accounting I A/B	G84 A&B	10-12	Senior Math/Elective	
Accounting II A/B	G86 A&B	11-12	Senior Math/Elective	
iCreate A/B	G85 A&B	11-12	Visual Performing Arts/Senior Math/Elective	
Business Math	G88	12	Senior Math/Elective	
Work-Based Learning A/B	V98 A&B	11-12	Elective	

G24 Google Bootcamp

One Semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This is a practical entry-level course that will cover everything Google, including Google apps and extensions. This will be a project-based course using Google tools to create documents, flyers, spreadsheets, resumes, etc. Students will learn Google tools that will help maximize the potential of using their Chromebooks as well as other sources of technology including laptops, desktops, phones, etc.

G38 Digital Design

One Semester, Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

This course will introduce students to the world of design and media, including web design, graphic design concepts, video production, audio editing, drone operation, photography, and storyboarding. Students will use Adobe Creative Cloud (CC) products. Students will use this software suite to create real-world projects such as professional websites, logos, commercials, and their own YouTube channel featuring a variety of vlogs on topics of interest. Equipment used will include GoPro 5, DSLR cameras, drones, gimbals, external microphones and more! Student projects will include partnerships with local businesses and GHAPS.

G48 Digital Design II

One Semester, Intermediate to Advanced level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

This course will focus on advanced techniques and concepts in design and media, including web design, graphic design concepts, video production, audio editing, drone operation, photography, and storyboarding. Students will continue to use Adobe Creative Cloud (CC) products, exploring them in greater depth. Equipment used will include GoPro 5, GoPro Fusion, DSLR cameras, a variety of drones, gimbals, external microphones and more! Student projects will include partnerships with local businesses and GHAPS, as well as several passion projects of their own. This course will also contribute to building their professional portfolio.

G58 A & B Advanced Placement Computer Science (JAVA)

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. AP Computer Science A teaches object-oriented programming using the Java language and

is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize problem solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. This course will prepare students for the end-of-course AP Exam.

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

G59 A & B Advanced Placement Computer Science Principles

Two Semesters, Advances level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

AP Computer Science Principles is a complete, full-year course developed in partnership with the University of Texas at Austin's UTeach Institute that focuses on the 7 "Big Ideas" in computer science using project-based approaches.

The course introduces students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity, and how computing impacts our world. Students will develop the computational thinking skills needed to fully exploit the power of digital technology and help build a strong foundation in core programming and problem-solving.

- ***Engaging Students New to Computer Science:*** The course is designed to engage students from diverse backgrounds and those new to computing – and excite students with a curriculum that focuses on the core ideas that shape the landscape of computer science and its impact on our society.
- ***Project-Based and Collaborative Learning Approach:*** Using project-based lessons and materials throughout, students will work to address real-world problems and design solutions to put computational thinking into practice. These culminate in a capstone Performance Task project where students can demonstrate what they've learned - to become creators, instead of merely consumers, of the technology all around them.

This course will prepare students for the end-of-course AP Exam.

Students who register for an AP class during course registration will NOT be able to drop these classes after the last day of the current school year and are expected to remain in the course for the entire year. If due to extenuating circumstances a student needs to drop an AP course after 1st semester, administrative approval will be required, and the student's 1st semester grade will be factored on a 4.0 scale.

G60 A & B Sports & Entertainment Marketing

Two Semesters, Basic to Intermediate level of difficulty

1 credit

Open to: 10th, 11th & 12th

This class is designed as an introduction to the fields of Marketing and Management with an emphasis on Sports and Entertainment and Hospitality and Tourism. After a review of the essentials of economics, students will be introduced to the principles of selling, advertising, customer relations, marketing research, and sports marketing. In addition to learning these concepts, students will have a chance to apply their knowledge in practical situations. Students will have the opportunity to be involved in the DECA Club. This class is highly recommended for college-bound students considering a major in business.

G62 A & B Marketing/Sales

Two Semesters, Intermediate to Advanced level of difficulty

1 credit

Open to: 10th, 11th & 12th

This class will consist of an advanced study of Marketing and Management. Students will be involved in the day-to-day operations of the school store, "The Buc Stop." This would include sales, inventory control, accounting, financial responsibilities, and distribution activities. Pricing and mathematical skills will also be covered. Students will have the opportunity to be involved in the DECA Club. This class is highly recommended for college-bound students considering a major in business.

G83 Computer Programming

One Semester, Intermediate level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

A project-based introduction to JavaScript, jQuery, PHP, Ruby, HTML, and CSS. This course will assist students in becoming computer literate by identifying important concepts, principles and techniques related to computer programming and applications. This course also includes hands-on projects working with programming the Arduino controller board and Finch robot.

G84 A & B Accounting I

Two Semesters, Intermediate level of difficulty

1 creditOpen to: 10th, 11th & 12th

If you are considering a career in the business world or owning your own business, this is the course for you. Accounting I introduces students to the financial end of running a business. Students will study accounting principles and theory and cover the basic procedures in the accounting cycle. On-line working papers are used which allow for immediate feedback on work. Students will also be exposed to automated accounting through computer use on a daily basis. This course satisfies the senior math requirement.

G86 A & B Accounting II

Two Semesters, Intermediate level of difficulty

1 creditOpen to: 11th & 12th

A continuation in the study of accounting principles and theory. Some topics covered are depreciation, inventory control, and allowance for uncollectible accounts. Automated accounting projects are also included. This course satisfies the senior math requirement.

Prerequisite: Accounting IA and IB**G85 A & B iCreate**

Two Semesters, Intermediate-Advanced level of difficulty.

1 creditOpen to: 11th & 12th

Classroom, lab and online blended learning through three fields of study: Marketing, Accounting, and Product Design. During this year-long course, each week students rotate through the three subject areas with two days designed for off site learning via field trips to local businesses and online learning at home. Each team of students presents a business plan that includes: Branding, creative marketing campaign, website/blog, finance, and product build.

G88 Business Math

One Semester, Intermediate level of difficulty

1/2 creditOpen to: 12th

This course will use math concepts and skills as they relate to areas of business such as bank services, taxes, payroll, retail and consumer credit. Students will also use Microsoft Excel to complete related tasks. A variety of group and individual projects will be completed.

V98 A & B Work-based Learning (Co-op or Internship)

One Semester, Basic level of difficulty

1 creditOpen to: 11th & 12th

CREDIT AND TIME:

1. One Semester / 2 hours
2. May be taken each Semester for credit

Work-based Learning (Co-op) Students who are employed in the community can earn H.S. credit for their work experience. Students need to work an average of 15 hours per week to receive credit and must take and pass a related vocational course (Accounting, Marketing, Computer Applications, Web Design, or a Careerline Tech Center course) each semester they are enrolled in Work-based Learning

Work-based Learning (Internship) The purpose of this program is to give students exposure to an area they will be interested in as a career. Students need to report (usually non-paid) to their placement 10 hours per week. They must also complete a semester project that reflects what they have learned throughout the course. A "Community Teacher" supervises students in these positions. Placements are available in most career interest areas. Students must have a cumulative G.P.A. of 2.0 to apply for this program.

TECHNOLOGY

Credit may be earned in any one category of arts. This requirement may be replaced by an additional language arts, world language, math, or science course.

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Design and Manufacturing I A/B	I20 A&B	9-12	Visual Performing Arts/Elective	
Design and Manufacturing II A/B	I21 A&B	10-12	Visual Performing Arts/Senior Math/Elective	
Architectural Design A/B	I40 A&B	10-12	Visual Performing Arts/Senior Math/Elective	

SME PRIME® (*Partnership Response in Manufacturing Education*) is designed to bring together organizations, businesses, and high schools in a community-based partnered approach to advanced manufacturing/STEM education. Sharp Corp is proud to be supporting PRIME at Grand Haven High School. In each community, SME PRIME works with a team of educators, manufacturers, and civic leaders to develop a strategic framework reflecting their community's unique workforce knowledge and skills needed. SME PRIME deploys an entire network of partners to leverage the latest technology, industry vetted curricula as well as all the supporting resources for the school, instructors and students.

I20 A & B Design and Manufacturing I

Two Semesters, Intermediate Level of Difficulty

1 Credit

Open to: 9th, 10th, 11th & 12th

Students use 3D solid modeling CAD software to generate: 3D models, assemblies, and 2D layout drawings. Students study design concepts and use Additive Manufacturing to translate conceptual design into reproducible products. This course is supported in partnership with SME PRIME.

I21 A & B Design and Manufacturing II

Two Semesters, Intermediate Level of Difficulty

1 Credit

Open to: 10th, 11th & 12th

Project based class where students learn how to design and build engineered solutions to product design problems using 3D Solid Modeling CAD software and advanced manufacturing equipment. Students receive Industry-recognized Credentials in precision measurement tools and equipment along with advanced quality and inspection technologies. The process and requirements for rapid prototyping and direct material deposition are reinforced with hands-on practice. Design for manufacturing and assembly concepts introduced. This course is supported in partnership with SME PRIME.

Prerequisite: Design and Manufacturing I A & B

I40 A & B Architectural Design

Two Semesters, Intermediate Level of Difficulty

1 Credit

Open to: 10th & 12th

Students learn the process of designing a residential building from initial sketches to design development using Autodesk Revit. Floor plans, elevations, sections, schedules, and renderings are generated. Building codes and residential construction techniques introduced.

MUSIC

Credit may be earned in any one category of arts. This requirement may be replaced by an additional language arts, world language, math, or science course.

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Wind Ensemble A/B	J44 A&B	9-12	Visual Performing Arts/Elective	
Symphonic Band A/B	J46 A&B	9-12	Visual Performing Arts/Elective	
Color Guard	J48	9-12	Visual Performing Arts/Elective	
Concert Band A/B	J50 A&B	9-12	Visual Performing Arts/Elective	
Jazz Ensemble (<i>Zero hour</i>)	J52	9-12	Visual Performing Arts/Elective	
Concert Orchestra A/B	J54 A&B	9-12	Visual Performing Arts/Elective	
Symphony Orchestra A/B	J55 A&B	10-12	Visual Performing Arts/Elective	
Chamber Orchestra A/B	J56 A&B	10-12	Visual Performing Arts/Elective	
Freshman Chorale A/B	J62 A&B	9	Visual Performing Arts/Elective	
Bella Voce A/B	J65 A&B	10-12	Visual Performing Arts/Elective	
Chamber Choir A/B	J68 A&B	10-12	Visual Performing Arts/Elective	
Choral Ensemble A/B	J70 A&B	11-12	Visual Performing Arts/Elective	
Advanced Women's Ensemble A/B	J72 A&B	10-12	Visual Performing Arts/Elective	

J44 A & B Wind Ensemble

Two Semesters, Advanced level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

Open to those students with an advanced proficiency on a band instrument. Symphonic Band and Wind Ensemble members are expected to participate in marching band including: summer band camp, parade and show performances, as well as sectionals. After marching season, the marching band will divide and meet in a concert setting for the remainder of the school year. Objectives include the continuation of the development of correct playing habits, sight reading, performance standards, intonation and phrasing. This course will expect students to perform very challenging wind band literature. All bands participate in MSBOA festivals and other activities. In addition to traditional concerts, wind ensemble members will be required to participate with the symphony orchestra wind section as well as pep band at athletic events. Students will be placed at director discretion. New students will need to schedule an audition.

Private lessons are highly recommended

J46 A & B Symphonic Band

Two Semesters, Intermediate level of difficulty

1 credit

Open to: 9th, 10th, 11th & 12th

Open to those students with a reasonable to intermediate proficiency on a band instrument. Symphonic band members are expected to participate in marching band including: summer band camp, parade and show performances, as well as sectionals. After marching season, the marching band will divide and meet in a concert setting for the remainder of the school year. Objectives include the continuation of the development of correct playing habits, sight-reading, performance standards, intonation and phrasing. All bands participate in MSBOA festivals and other activities. In addition to traditional concerts, concert band members will be required to participate with the pep band at athletic events. Students will be placed at director discretion. New students will need to schedule an audition.

Private lessons are highly recommended

J48 Color Guard

One semester, Intermediate to Advanced level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

Color Guard will be **offered first semester only** and is taken in conjunction with marching band. Extra rehearsals, outside of school, are required as well as participation at summer band camp. Members are selected by audition in the spring. Those students who are musicians and are signed up for band will continue in those courses after marching band.

J50 A & B Concert Band

Two Semesters, Basic to Intermediate level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

Open to those students with a reasonable proficiency on a band instrument. Students will be in a concert setting throughout the year. Objectives include establishing good fundamentals and raising practice and performance standards. All bands participate in MSBOA festivals and other activities. In addition to traditional concerts, concert members will be required to participate with the school pep band at athletic events. They may also augment the marching band for parade performances and may attend special functions. Students placed at director discretion.

J52 A & B Jazz Ensemble *Zero Hour*

Two Semesters, Intermediate to Advanced level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

Enrollment is audition based. Interested students must obtain audition materials. Objectives include the continuation of the development of correct playing habits, sight-reading, performance standards, intonation, and phrasing with emphasis on improvisation development. This course will provide students exposure to various literatures through performance, including but not limited to Big Band, Blues, and Jazz. Instructors will conduct spring auditions for fall placements.

J54 A & B Concert Orchestra

Two Semesters, Intermediate level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

All freshmen are required to be in the Concert Orchestra.

Sophomores, juniors and seniors will be placed by auditions in the spring for fall placement.

Concert orchestra is in a traditional string orchestra setting throughout the year. Objectives include establishing good fundamentals, raising practice and performance standards, and learning good teamwork skills with a positive attitude to achieve excellence. Concerts include: Halloween, winter, Pre-Festival and spring, District/State Festival. Other activities include District/State Solo & Ensemble, special functions or concerts.

J55 A & B Symphony Orchestra

Two Semesters, Intermediate to Advanced level of difficulty

1 creditOpen to: 10th, 11th & 12th

Open, by audition, to those students with advanced proficiency on any string instrument. Auditions take place in the spring for fall placement.

This orchestra performs very challenging music in a string and full orchestra setting. Objectives include the continuation of good technique, reading and performing music at an advanced level, using good teamwork and leadership skills with a positive attitude to achieve excellence. Concerts include: Halloween, winter, Pre-Festival, District/State Festival, and spring. Other activities include: District/State Solo & Ensemble, after school rehearsals with winds for full orchestra setting, sectionals, and any special functions or concerts.

J56 A & B Chamber Orchestra

Two Semesters, Advanced level of difficulty

1 creditOpen to: 10th, 11th & 12th

Open, by audition, to those students with advanced proficiency on any string instrument. Auditions take place in the spring for fall placement. Private lessons are strongly recommended.

This orchestra performs professional grade literature in a string and full orchestra setting.

Objectives include the continuation of good technique, reading and performing music at an advanced level, using good teamwork and leadership skills with a positive attitude to achieve excellence.

Concerts include: Halloween, winter, Pre-Festival, District/State Festival, and spring.

Other activities include: District/State Solo & Ensemble, after school rehearsals with winds for full orchestra setting, sectionals, special functions, concerts and competitions.

J62 A & B Freshmen Chorale

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th only

The Freshmen Chorale consists of all freshmen (Soprano, Alto, Tenor, Bass). This choir will study and perform a variety of vocal music at concerts and festivals. Students will learn: healthy vocal technique, how to read music notation, music theory, cooperation skills, problem solving skills and goal setting to achieve high standards of excellence. No previous singing experience is necessary. Admittance is by assignment by a vocal music teacher. Concert/Performances include: Inauguration, CCR, fall, winter, District/State Choral Festival, & spring.

J65 A & B Bella Voce

Two Semesters, Intermediate level of difficulty

1 creditOpen to: 10th, 11th & 12th

Bella Voce is a choir consisting of treble voices (Soprano, Alto). This choir will study and perform a variety of vocal music at concerts and festivals. Students will learn: healthy vocal technique, how to read music notation, music theory, cooperation skills, problem solving skills and goal setting to achieve standards of excellence. No previous singing experience is necessary. Admittance is by assignment by a vocal music teacher. Concert/Performances include: CCR, fall, winter, District/State Choral Festival, & spring.

J68 A & B Chamber Choir

Two Semesters, Intermediate to Advanced level of difficulty

1 creditOpen to: 10th, 11th & 12th

Chamber Choir is a mixed choir (Soprano, Alto, Tenor, Bass) that studies and performs a variety of vocal music. Students will learn: healthy vocal technique, how to read music notation, music theory, cooperation skills, problem solving skills and goal setting to achieve standards of excellence. Women must audition to become a part of this ensemble. Men wishing to sing without previous choral experience will need to meet with the director before being placed in the Chamber Choir. Concert/Performances include: CCR, fall, winter, District/State Choral Festival, & spring. Chamber Choir may perform at community events and school assemblies.

J70 A & B Choral Ensemble

Two Semesters, Advanced level of difficulty

1 creditOpen to: 11th, 12th

Choral Ensemble is a highly selected mixed choir (Soprano, Alto, Tenor, Bass) of sixteen to twenty singers. Students learn advanced singing & performance techniques, to read music at an advanced level, historical music styles and techniques, music theory, cooperation skills, problem solving skills and goal setting to achieve standards of excellence. After school and evening performances may be extensive. Concert/Performances include: CCR, fall, winter, District/State Solo & Ensemble Festival, spring, Youth Arts Festival and additional community performances. Admittance is by audition, which will be held in the spring.

Prerequisite: Two years of choir in grades 7-12**J72 A & B Advanced Women's Ensemble**

Two Semesters, Advanced level of difficulty

1 creditOpen to: 10th, 11th & 12th

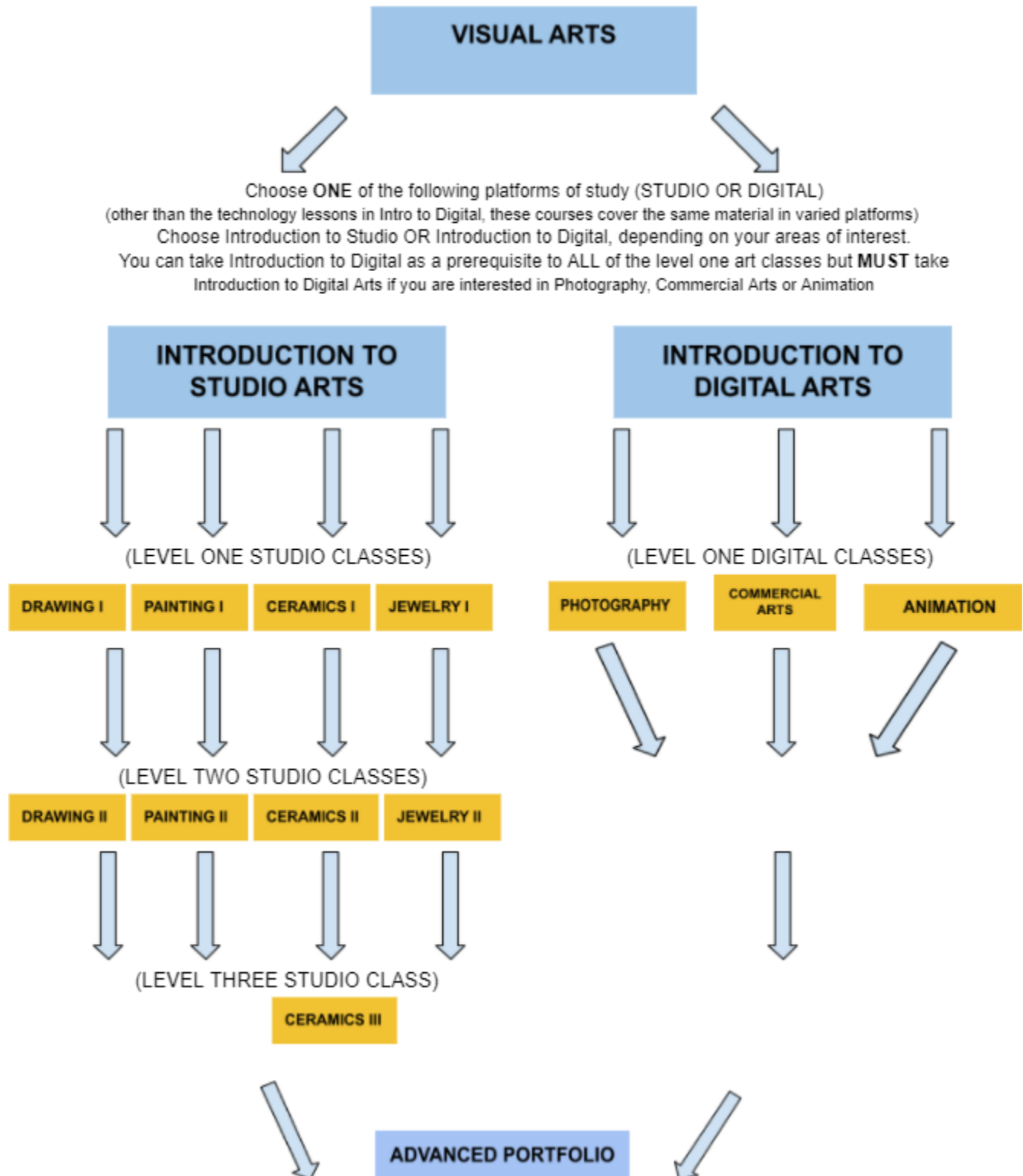
Advanced Women's Ensemble is a highly selected treble voice choir (Soprano, Alto) of sixteen to twenty singers. Students learn advanced singing & performance techniques, to read music at an advanced level, historical music styles and techniques, music theory, cooperation skills, problem solving skills and goal setting to achieve standards of excellence. After school and evening performances may be extensive. Concert/Performances include: CCR, fall, winter, District/State Solo/Ensemble Festival, spring, and additional community performances. Admittance is by audition, which will be held in the spring.

Prerequisite: Two years of choir in grades 7-12

ART

Visual/Performing or Applied Art

Requirement for graduation: 1 credit required (VPA)



Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Introduction to Studio Arts	L40	9-12	Visual Performing Arts/Electives	
Introduction to Digital Arts	L41	9-12	Visual Performing Arts/Electives	
Drawing I	L54	9-12	Visual Performing Arts/Electives	
Drawing II	L56	10-12	Visual Performing Arts/Electives	
Animation	L60	9-12	Visual Performing Arts/Electives	
Jewelry I	L64	10-12	Visual Performing Arts/Electives	
Jewelry II	L65	11-12	Visual Performing Arts/Electives	
Ceramics I	L66	9-12	Visual Performing Arts/Electives	
Ceramics II	L69	10-12	Visual Performing Arts/Electives	
Ceramics III	L71	10-12	Visual Performing Arts/Electives	
Painting I	L77	9-12	Visual Performing Arts/Electives	
Painting II	L78	10-12	Visual Performing Arts/Electives	
Commercial and Graphic Arts	L86	9-12	Visual Performing Arts/Electives	
Digital Photography	L93	10-12	Visual Performing Arts/Electives	
Advanced Art Portfolio	L95	11-12	Visual Performing Arts/Electives	

L40 Introduction to Studio Arts

One Semester, Basic level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This class is an introductory studio art course and is the prerequisite for all other art courses offered at GHHS. This course is designed to take students from their current skill set to a more advanced level in terms of their technical and creative abilities in the visual arts. Students will have the opportunity to use a variety of media and a range of techniques to create finished works of art. Be creative and improve your artistic skills. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

****Prerequisite for all studio art classes ** (Could also use Introduction to Digital Arts or Art & Design.)**

L41 Introduction to Digital Arts

One Semester, Basic level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This is an introductory digital art course and is the prerequisite for Commercial Arts, Photography and Animation. This course is designed to take students from their current skill set to a more advanced level in terms of their technical and creative abilities in digital art. Students will have the opportunity to learn the basics of illustrator and best practice for digital art creation for both print and digital media. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

****Prerequisite for all digital art courses****

L54 Drawing I

One Semester, Basic level of difficulty

1/2 credit

Open to: 9th (2nd semester after completing Introduction to Studio Arts, Introduction to Digital Arts or Art & Design)
10th, 11th & 12th

STUDIO ART

Basic drawing techniques from observation and imagination will be presented. These will include but are not limited to gesture, contour, perspective, and portrait drawing. Students will work with a variety of drawing media and keep a sketchbook of individual drawings. Students will be expected to participate in critiques of their artwork. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

Prerequisite: Successful completion of one of the following: Introduction to Studio Arts, Introduction to Digital Arts or Art & Design

L56 Drawing II

One semester, Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

STUDIO ART

This course will emphasize technical ability, composition and experimental techniques in more advanced drawing assignments. Students will demonstrate ability in a variety of drawing mediums and participate in critiques.

**Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

\$10.00 Fee is due the first week of class.

Prerequisite: Successful completion of Introduction to Studio Arts or Introduction to Digital Arts or Art & Design and Drawing I

L60 Animation

One Semester, Basic Level of difficulty

1/2 credit

Open to: 9th (2nd semester after completing Introduction to Studio Arts, Introduction to Digital Arts or Art & Design)
10th, 11th & 12th

DIGITAL ART

This course introduces students to both traditional and digital animation. Digital animation is taught with a video game workflow focus. Students learn about how to use the 12 principles of animation to create dynamic sequences. Both Illustrator and Photoshop will be used to create assets for students animating figures, objects and backgrounds. Unity is the primary software used for animating 2D objects in this course. Foundational skills that are taught through this class are storyboarding, frame by frame animation, motion tweens, camera angles, transitions and audio recording. Students will learn about the history of animation and learn techniques by watching select animated clips from films that have contributed to the field. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

Prerequisite: Successful completion of Introduction to Digital Arts or Art & Design.

L64 Jewelry I

One Semester, Advanced level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

STUDIO ART

Jewelry I offers students the opportunity to create original art products using advanced techniques in jewelry making. Each project will involve an in-depth study of design, art history and skill development with the medium being used. Projects may include wrap bracelets, beaded loom bracelets, wire and metal working. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

\$40.00 Fee is due the first week of class.

Prerequisite: Successful completion of one of the following: Introduction to Studio Arts, Introduction to Digital Arts or Art & Design

L65 Jewelry II

One semester, Advanced level of difficulty

1/2 credit

Open to: 11th & 12th

STUDIO ART

Jewelry II is an advanced course for students who have an interest in creating original jewelry and are ready to take it to a higher level. Students will utilize more advanced construction techniques and develop their own. Students will apply these techniques in modern ways to make aesthetically pleasing, functional pieces, in a more in depth study. Original, well-planned projects with high craftsmanship, aesthetic consideration and attention to detail are required. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

\$40.00 Fee is due the first week of class.

Prerequisite: Successful completion of one of the following - Introduction to Studio Arts or Introduction to Digital Arts or Art & Design and Jewelry I

L66 Ceramics I

One Semester, Basic level of difficulty

1/2 credit

Open to: 9th (2nd semester after completing Introduction to Studio Arts, Introduction to Digital Arts or Art & Design)
10th, 11th & 12th

STUDIO ART

Ceramics I will include various traditional hand building methods. Surface techniques will vary for each project, including underglaze design, glaze layering, glaze pouring and staining. Ceramic history and appreciation and vocabulary/terminology will also be included. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

\$35.00 Fee is due the first week of class.

Prerequisite: Successful completion of one of the following - Introduction to Studio Arts or Introduction to Digital Arts or Art & Design

L69 Ceramics II

One Semester, Advanced level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

STUDIO ART

Class requirements include:

- Work on a potter's wheel
- Advanced level work in hand building techniques or combination of methods, creating both functional and sculptural art works.
- Advanced surfacing and glazing techniques
- Glaze chemistry/glaze mixing
- Ceramic Appreciation and History

**Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

\$35.00 Fee is due the first week of class.

Prerequisite: Successful completion of one of the following - Introduction to Studio Arts or Introduction to Digital Arts or Art & Design and Ceramics I

L71 Ceramics III

1/2 Credit

Open to: 10th, 11th & 12th

STUDIO ART

Ceramics III is an advanced ceramic art course offered at Grand Haven High School. This course is designed to give students the opportunity to further their understanding of the clay material and its potential for three-dimensional functional objects using both handbuilding and wheel throwing methods of construction. This course is an extension of Ceramics II, giving the students the opportunity to further their knowledge and skill in the potter's wheel, ceramic construction and ceramic surfacing techniques.

Class will include: A. Intermediate and advanced level work on the Potter's Wheel, B. Advanced level work in handbuilding techniques or a combination of handbuilding and wheel thrown methods, C. Decoration with glaze or other methods, including Glaze Technology, D. Additional Ceramic Geology E. Additional Ceramic History/Appreciation, F. Kiln Loading Basics

\$40.00 Fee is due the first week of class.

Prerequisite: Successful completion of one of the following - Introduction to Studio Arts or Introduction to Digital Arts or Art & Design and Ceramics I & II

L77 Painting I

One Semester, Basic Level of Difficulty

1/2 Credit

Open to: 9th (2nd semester after completing Introduction to Studio Arts, Introduction to Digital Arts or Art & Design)
10th, 11th & 12th

STUDIO ART

Painting techniques will utilize acrylic paints, inks and watercolors. Students will learn various brush techniques, how to properly care for brushes, paints, papers, and prepare canvas and inks. Subject matter will cover a sampling of realism, abstract and non-objective work. Color study and the history of painting will be included. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

Prerequisite: Successful completion of one of the following - Introduction to Studio Arts or Introduction to Digital Arts or Art & Design

L78 Painting II

One semester, Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

STUDIO ART

This course offers students the opportunity to focus on more advanced techniques in painting and painting history. Specific skills in acrylic and watercolor will be explored. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

\$30.00 Fee due the first week of class.

Prerequisite: Successful completion of one of the following - Introduction to Studio Arts or Introduction to Digital Arts or Art & Design and Painting I

L86 Commercial and Graphic Arts

One semester, Intermediate level of difficulty

1/2 credit

Open to: 9th (2nd semester after completing Introduction to Digital Arts or Art & Design)
10th, 11th & 12th

DIGITAL ART

This course introduces students to both traditional and digital commercial art. Students will develop skills with the Adobe Creative Cloud applications to execute projects based on a variety of design-related fields. Foundational skills in layout, composition, color theory, design terminology and design history will also be taught. **Assignments must be completed during the art class period due to the supplies and software needed, demonstration of techniques and in-progress feedback.*

Prerequisite: Successful completion of Introduction to Digital Arts or Art & Design

L93 Digital Photography

One Semester, Intermediate level of difficulty
(9th graders 2nd Semester)

1/2 credit

Open to: 10th, 11th & 12th

DIGITAL ART

This introductory class in photography will include instruction on the use of the digital camera, and photoshop. Students will learn how to enhance and manipulate photos using Adobe Photoshop. Emphasis will be on the composition of a variety of subjects including landscapes, portraits, action shots, photo restoration, abstraction, and still life. **Assignments must be completed during the art class period due to the supplies needed, demonstration of techniques and in-progress feedback.*

\$25.00 fee due by the 2nd week of class for digital printing paper, ink cartridges, matt boards, card readers, flash drives, cables, and various supplies.

Prerequisites: Successful completion of Introduction to Digital Arts or Art & Design - SLR camera

L95 Advanced Art Portfolio

One Semester, Advanced level of difficulty

Application Process Required

Materials fees will be discussed with individual plans of study.

STUDIO or DIGITAL ART

This course is designed for the serious art student who has already taken a variety of art courses including all the levels offered in a specific medium. Students who are developing an art portfolio for college submissions will be given priority. Students need to be in good standing in their current art courses in order to apply. It is highly recommended to take this course in the 2nd semester of junior year or 1 semester of senior year. This course requires an Application and Art Department Approval prior to registration.

Application and Approval Process:

Students must be granted Art Department Approval. For specific details and directions, students need to get an Application Packet from one of the GHHS art teachers.

The Approval process will include:

1. An application appointment with an art department committee for a review of the students' previous and current artworks.
2. A written Artist Statement and a detailed project proposal including visual references and a design plan.
3. Upon approval, an appointment with the course teacher for individualized course curriculum development.

Prerequisites:

1. A minimum of 3 previous art courses taken at GHHS (Introduction to Studio Arts or Introduction to Digital Arts) plus two other art courses, including the completion of levels offered in a specific medium).
2. Completion of the Application requirements and Art Department Approval.

PHYSICAL EDUCATION

PE Academic Requirement for graduation: .5 PE Credit and .5 Health Credit

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Women's Health and Fitness	M38	9-12	Physical Education/General Elective	
Introductory Physical Education	M43	9-10	Physical Education/General Elective	
Team Sports	M46	10-12	Physical Education/General Elective	
Weight Fitness – Zero Hour	M53	9-12	Physical Education/General Elective	
Fitness Training	M55	9-12	Physical Education/General Elective	
Yoga/Cardio Conditioning & Intro to PE	M58	9-12	Physical Education/General Elective	
Weight Fitness	M66	9-12	Physical Education/General Elective	
Advanced Weight Training	M68 A&B	9-12	Physical Education/General Elective	
Advanced Functional Conditioning & Training	M75F-Fall M75S-Spring	9-12	Physical Education/General Elective	
Outdoor Education	M80	12	Physical Education/General Elective	
Introduction to Self Defense	M85	9-12	Physical Education/General Elective	
Health	M95	9-12	Health/General Elective	

The aim of physical education is to give students the knowledge, skills, and confidence they need to continue improving their physical performance and fitness and to realize that attaining and maintaining good health is for a lifetime. Students will be asked to set their own short and long-term fitness goals and develop strategies for attaining those goals. These goals are: Physical Development, Social Development, Emotional Development, Recreational Development, and Intellectual Development.

All physical education classes (except Health) may be taken more than one semester for credit.

M38 Women's Health and Fitness

One semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This class is designed for women who are interested in participating in a variety of activities that will positively influence their health, well-being and fitness levels. Many activities will focus on real world connections and lay the groundwork for future physical education classes and an active life-style beyond high school. Activities include: hiking, biking, yoga, Pilates, body sculpting, badminton, volleyball, swimming, soccer, tennis, softball, Zumba, and nutrition.

M43 Introductory Physical Education

One semester, Basic level of difficulty

1/2 credit

Open to: 9th & 10th

This course will meet the graduation requirements for all students. The purpose of this class is to expose all students to the wide variety of offerings in the Physical Education Department and to incorporate fitness activities into a lifelong commitment to fitness. Running, Weight Training, Plyometrics, Agilities and many team sport activities will be introduced to students. Students will be running two days a week, in the fitness center one day a week and playing a sport the other two days. Classes will encompass cardiovascular fitness, muscular fitness, muscular endurance, flexibility, body composition, skill development, and strategy techniques.

M46 Team Sports

One semester, Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

This semester-long course consists of the following: Air Force Football, Volleyball, Soccer, Basketball, Badminton, Floor hockey, Softball, and Ultimate Frisbee. This class will allow the student the opportunity to improve their skills, to maintain a moderate level of fitness, and to develop stress reduction techniques through the enjoyment of participating in sports with others.

M53 Zero Hour Weight Fitness

One Semester, Basic level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This class is for the student that wishes to use weight training as the core to his/her personal fitness program. After an introduction to weight fitness, the student will develop a program that encourages balanced fitness while emphasizing the personal needs and wants of the student. This course will consist of four days of weight work and one day of speed & agility training.

M55 Fitness Training

One semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This class will focus on total body conditioning and fitness workouts. Students will be running off campus multiple days a week in all weather conditions. Participants are graded on effort not ability as they will be training for a road race at the end of the marking period.

M58 Yoga/Cardio Conditioning and Introduction to Physical Education

One semester, Intermediate to Advanced level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This class combines yoga, along with cardio workouts such as boot camp in the weight room, Insanity, P90X, T25, and other body sculpting activities. Students will benefit by strengthening core muscle groups and increasing flexibility, balance, and energy levels. This class will also introduce students to a variety of sports such as volleyball, badminton, soccer, ultimate Frisbee and tennis.

M66 Weight Fitness

One semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This class is for the student that wishes to use weight training as the core to his/her personal fitness program. After an introduction to weight fitness, the student will develop a program that encourages balanced fitness while emphasizing the personal needs and wants of the student. The intensity of the program can vary from sport specific weight training

(football, basketball, volleyball, track, etc.) or purely as a personal fitness program. Flexibility drills, aerobic activities, plyometrics and running will be used as supportive fitness activities. Student responsibilities will include but not be limited to keeping a weight training logbook, muscle identification, strength and fitness testing.

M68 A/B Advanced Weight Training

One semester, Advanced level of difficulty

1 credit (1/2 credit each)

Open to: 10th, 11th, 12th

Advanced Weight Training is a personal fitness class for serious student athletes that emphasizes athletic weight training and athletic conditioning. Heavier weights, Olympic lifts, speed school and power routines will be used in the weight room. Plyometrics, agility, quickness and speed drills will be used to develop a core fitness program. Student responsibilities will include but not be limited to: weight training logs, personal nutrition logs, fitness pre/post testing, and Google Classroom assignments.

Prerequisite: Must be a student athlete, and have successfully completed Weight Fitness and/or Advanced Weight training in a previous semester.

M75-Fall or Spring Advanced Functional Conditioning & Training

One semester (Fall or Spring), Advanced level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This semester-long course, taught by the Varsity Basketball Coaches, is designed to teach functional strength and conditioning to interested students. This course will be offered both in the fall, and spring of each school year. This course is designed for the serious student-athlete to improve their overall agility, cardiovascular endurance, quickness, balance, strength, injury prevention, and fitness. Exercises will be HIGH INTENSITY functional movements for various varsity athletics, including (but not limited to) on-court running, sprinting, lateral movement, medicine ball exercises, and weight lifting.

Prerequisite – Advanced approval signature from Katie Kowalczyk-Fulmer or Greg Immink

M80 Outdoor Education

One semester/2 consecutive class hours, Basic to Intermediate level of difficulty

1/2 credit

Open to: 12th only

Come experience a very unique approach to physical education as you challenge yourself physically and mentally. The majority of the course takes place off campus and will expose you to resources right here in the greater Grand Haven area. Topics of instruction may include: trust and team building activities, low and high ropes, land based kiteboarding, trail building, trail maintenance, mountain biking, hiking, backpacking, kayaking, canoeing, hunter's safety, paintball, orienteering, land navigation, rock climbing, scuba, cross country skiing, downhill skiing, sledding, First aid and CPR. Specific Outdoor Education activities will be dependent on which semester you are enrolled in. As an example, the fall semester will cover survival and self-sufficiency, the winter semester will focus as much as possible on snow and winter related activities. Students enrolled in Outdoor Education can expect to spend the majority of their time outside in all kinds of weather. The class continues through rain, snow and most precipitation in between. If you have further questions or concerns you are encouraged to check out an Outdoor Education DVD from student services and make an appointment to speak with Mr. Warner to be sure you are a good fit for this course.

This course may be taken only ONE semester during a student's senior year.

Due to the costs of numerous field trips, an activity fee of \$200.00 is required for enrollment.

M85 Introduction to Self Defense

One semester, Basic level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This course would focus on introducing the fundamentals of wrestling, Jiu Jitsu, non-contact boxing and possibly other martial art disciplines.

M95 Health

One Semester, Intermediate level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This course is designed to not only provide knowledge in various health areas, but also to guide students in mastering the skills **to use the knowledge they obtain**. Students will create personal meaning through practicing and applying essential life skills such as accessing valid information, decision making, analyzing influences, interpersonal communication, goal setting, and self-management. They will be encouraged to become critical consumers in Health, and to distinguish between reliable knowledge versus knowledge based on bias, misunderstanding, or desire for personal gain. To introduce concepts, students will first focus on essential life skills they will need to use in order to be contributing

members of society and develop an overall well-being. In addition, students will study social/emotional/mental health, nutrition and physical activity, reproductive health and healthy relationships, and drugs and alcohol. Students will be trained in hands-only CPR as is required by the State of Michigan. Students will write, present ideas to the class, collaborate, set goals and advocates for themselves and a healthier community.

MISCELLANEOUS

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
Teaching Assistant	N52	11-12	Elective	
LINKS	N53	10-12	Elective	

N52 Teaching Assistant

One Semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 11th & 12th

Students enrolled in this course will receive instruction in teaching methods, classroom management, grading procedures and strategies used in the classroom. Then they will be sent out to work in classrooms at the elementary, middle school or high school level to put their knowledge to use. Students will be graded on class assignments, time spent at placements, and will be evaluated by a "Community Teacher."

Prerequisite: minimum 2.0 grade point average

N53 LINKS

One semester, Basic to Intermediate level of difficulty

1/2 credit

Open to: 10th, 11th & 12th

(9th grade POPS participants
(with approval from POPS
advisor)

LINKS is a course designed to give students hands-on experience, working with students with an Autism Spectrum Disorder (or in some cases another disability). A student enrolled in LINKS will be a mentor, role model, and friend to a student with ASD. He/She will assist the student in such things as being a meaningful member of a pair or group, appropriate classroom behavior, organization of assignments and supplies, and focusing on classroom instruction. The LINKS student will be with his/her assigned student every day in their assigned class to help them socially, academically, behaviourally and with independence skills. Students will be expected to complete assignments and readings outside of class to gain a greater understanding of Autism Spectrum Disorders and other disorders. Assignments and projects will be designed for application of that knowledge. The LINKS student will also attend case conferences to discuss the progress of his/her assigned student, and contribute ideas on how to more effectively help their student progress. Various activities and opportunities to socialize in and out of school will be planned for each semester. The LINKS class assists students in their consideration of a career in the Human Services Career Pathway. The course will count as a general elective.

Application and Approval required for enrollment. See Mrs. Nutt in Room 1106 to pick up an application packet.

SPECIAL EDUCATION

The Special Education Department offers programs and services for those students who qualify as having a handicapping condition under IDEA. Selection of courses is made by the student, parent, teacher, and guidance counselor. Students who are eligible, or who feel they may be eligible for special education service, should contact a special education teacher, guidance counselor, or administrator before making schedule decisions.

Course Name	Course Number	Grade Range	Fulfills Graduation Requirement	NCAA Approved
MERIT English 9/10 A/B	S20 A&B	9-10	English 9/English 10/English Elective	
MERIT Basic Math 9/10 A/B	S21 A&B	9-10	Algebra I/Geometry/Elective	
MERIT English 11/12 A/B	S22 A&B	11-12	English 11/English Elective	
MERIT Basic Math 11/12 A/B	S23 A&B	11-12	Geometry/Elective	
MERIT Michigan History	S26	9	Visual Performing Arts/Elective/PC-TBD	Yes
MERIT US History A/B	S27 A&B	MERIT Students	US History/Elective/PC-TBD	Yes
MERIT Government	S29	MERIT Students	Government/Elective/PC-TBD	Yes
MERIT Science Concepts	S91	MERIT Students	Electives	
MERIT Social Studies Concepts	S92	MERIT Students	Electives	
MERIT Health	S95	MERIT Students	Health	
MERIT Economics	S96	MERIT Students	Economics	
LCCE Health	S30	9-12	Health/PE/Elective	
LCCE English Language Arts A/B	S31 A&B	9-12	Elective	
LCCE Social Studies	S33	9-12	Elective	
LCCE Science	S34	9-12	Elective	
LCCE Math A/B	S35 A&B	9-12	Elective	
CBT Enclave A/B	S39 A&B	9-12	Elective	
Resource Language Arts 9 A/B	S41 A&B	9-12	English 9	Yes
Resource Language Arts 10 A/B	S42 A&B	10-12	English 10	Yes
Resource Language Arts 11 A/B	S43 A&B	11-12	English 11	Yes
Resource Algebra I A/B	S44 A&B	9-12	Algebra I	Yes
Resource Math Geometry A/B	S46 A&B	10-11	Geometry	Yes
Resource Consumer Math	S45	11-12	Math Elective	
Resource Directed Study – ASD	S49	9-12	Elective	
Resource Community Site Based Voc Training	S51 A&B	11-12	Elective	
Resource Directed Study	S54	9-12	Elective	
Resource Algebra II A/B	S56 A&B	11-12	Algebra II	Yes
Categorical Language Arts EI A/B	S60 A&B	9-12	English Elective	
Categorical Math EI A/B	S61 A&B	9-12	Math Elective	
Categorical Science EI A/B	S62 A&B	9-12	Elective	
Categorical Social Studies EI A/B	S63 A&B	9-12	Elective	
Categorical Directed Study EI	S64	9-12	Elective	
Targeted Instruction	S69	9-12	Elective	
Categorical Language Arts ASD A/B	S70 A&B	9-12	English Elective	
Categorical Math ASD A/B	S71 A&B	9-12	Math Elective	
Categorical Directed Study ASD	S74	9-12	Elective	
Categorical Independent Living A/B	S75 A&B	9-12	Elective	
Adaptive Physical Education	S69	9-12	PE/Elective	
Adaptive Exploratory Arts	S90	9-12	Visual Performing Arts/Elective	

S20 MERIT English Language Arts 9/10 A & B

Two Semesters, Basic level of difficulty

1 CreditOpen to: 9th & 10th

This special education course focuses on the areas of reading, writing, and speaking. Students will learn various strategies to enhance their skills in each of these areas. A variety of texts will be used to teach these skills including at least one novel or informational text, and student choice selections. Students will learn and use the writing process (prewriting, drafting, editing and final submission) to complete at least one essay based on the class novel/informational text. This course is only for students with an IEP on a PC.

S21 MERIT Basic Math 9/10 A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th & 10th

This mathematics course is designed to give students a basic understanding of mathematical concepts and operations. The class will start with concepts such as place value and numeration before moving on to more complex skills. To encourage understanding and motivation, students will be presented with problem solving exercises that relate a concept to everyday situations. An emphasis is placed on mastering basic concepts that are necessary for success in life at school, at home and in the workplace. This course is only for students with an IEP on a PC.

S22 MERIT English Language Arts 11/12 A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 11th & 12th

This Special Education course is an extension of MERIT ELA 9/10. Areas of study include reading, writing, and speaking. Students will extend their knowledge and use of strategies to enhance skills in these areas within real life situations. A variety of texts will be used including novels, newspapers, media, informational texts, and others. Writing will include essays and other life-application texts. This course is only for students with an IEP on a PC.

S23 MERIT Basic Math 11/12 A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 11th & 12th

This mathematics course is designed to give students comprehensive coverage of basic math skills needed for everyday living. This class will help prepare students with the problem solving skills needed for independent living. Topics covered include: Home Improvement, Adjusting Recipes, Spending & Earning Money, Interest and Insurance. Each skill presented will be emphasized with opportunities to apply the skills in practical situations. This course is only for students with an IEP on a PC.

S24 MERIT Community Focus

One semester, Basic level of difficulty

1/2 creditOpen to: 9th & 10th

MERIT Community Focus will give students an opportunity to learn about how to become involved in the local tri-cities community. Students will learn about the businesses, resources and activities available to them in the Grand Haven, Ferrysburg and Spring Lake area. The class will also involve addressing some of the transition needs of students directly in our own community. This special education course is only for students with an IEP on a PC.

S25 MERIT Social Skills A & B

18 Weeks, Basic level of difficulty

1/2 creditOpen to: 9th & 10th

In MERIT Social Skills students learn how to better their interactions with peers and adults. Three focus areas for the course are Empathy and Communication, Bully Prevention and Emotion Management. Students also get practice with setting and following through on self-created goals. Students learn these skills through a variety of activities including hands-on skills practice, group discussions and use of multimedia applications. This special education course is only for students with an IEP on a PC.

S26 MERIT Michigan History

One semester, Basic level of difficulty

1/2 creditOpen to: 9th only

This course explores Michigan's history and Michiganders' love affair with the state. Areas of study include: Michigan's physical formation, the first settlers, cities and villages, industries, state parks, automotive, local history, and various other topics related to Michigan. This course is only for students with an IEP on a PC.

S27 MERIT US History A & B

Two Semesters, Basic level of difficulty

1 Credit**MERIT Students only**

This course is the study of the United States in the 20th century from 1880 to the present. It will be studied through the lens of an American, and focus on our interactions with the world and how this shapes our American experience. This course is only for students with an IEP on a PC. This is a graduation requirement.

S28 MERIT Economics

One Semester, Basic level of difficulty

1/2 credit**MERIT Students Only**

Economics is the study of choices and decisions people make about how to use the world's resources. This class will introduce students to the basics of economics, such as economic systems, supply and demand, market structures, money and banking, financial markets, business cycles, and economic indicators. Students will also study the government's role in the economy and the global economy. This class will include projects such as a stock market simulation. This course is only for students with an IEP on a PC. This course is required for graduation for students in the MERIT Program.

S29 MERIT Government

One Semester, Basic level of difficulty

1/2 credit**MERIT students only**

The goal of this course is active engagement as citizens in our community. In addition to active discussion about politics, students in this course may conduct a trial, participate in an election, debate in a legislature, and complete other hands-on assignments. The role of service in the community and the rights and responsibilities of citizenship are emphasized. A semester project will be a part of each class. This course is only for students with an IEP on a PC. This course is required for graduation for students in the MERIT Program.

S30 LCCE HEALTH

One Semester, Basic level of difficulty

1/2 creditOpen to: 9th, 10th, 11th & 12th

This course provides units on nutrition, exercise, human reproduction, first aid, accident prevention, money management, job hunting, substance use and abuse. Students will experience direct instruction, group and individual activities, field trips, guest speakers, videos, and problem solving activities.

S31 LCCE English Language Arts A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

Through the LCCE Language Arts curriculum students will understand their responsibilities in communicating with others by effectively developing their reading and writing skills.

S33 LCCE Social Studies – Geography

One Semester, Basic level of difficulty

1/2 creditOpen to: 9th, 10th, 11th & 12th

This is a special education geography course designed to give students life skills for living in Grand Haven and surrounding communities

S34 LCCE Science

One Semester, Basic Level of Difficulty

1/2 CreditOpen to: 9th, 10th, 11th, & 12th

This course is designed to provide students with real-life applications in the sciences. Students will gain a basic understanding of the scientific method and how we use it in our day to day lives. They will study topics spanning Life Science, Earth Science, and Physical Science.

S35 LCCE Math A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

This is a special education math class that teaches math skills through daily living activities.

S38 Resource Pre-Vocational Education

One Semester, up to one year, Basic level of difficulty

1/2 creditOpen to: 9th, 10th, 11th & 12th

The emphasis is to learn skills needed in the world of work. Students will study, learn and practice the following units: interests and aptitudes, forms needed for jobs, job training opportunities, how to find jobs, applying and interviewing for a job, holding a job, salaries, fringe benefits and unions.

Activities include field trips, job shadowing **Requirement Code**

S39 CBT Enclave A & B

One Semester, up to one year, Basic level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

In district site based vocational training.

S50 Resource Work Experience

One Semester, up to one year, Basic level of difficulty

1/2 creditOpen to: 11th & 12th

This course is for students who benefit from a non-traditional classroom setting. It is also to gain volunteer work experience within the school setting. Students are working with maintenance staff in the cafeteria following lunches. Students clean, break down, and prepare the cafeteria for the following day.

S51 Resource Community Site Based Vocational Training A, B

One Semester, up to one year, Basic level of difficulty

1 creditOpen to: 11th & 12th

Students are placed at a variety of local businesses to be trained in specific job skills and to learn employability skills. Student trainees are regularly supervised by school personnel.

S41 Resource Language Arts 9 A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

This course is comparable to English 9 A & B. The focus of this course is writing and literature. Students can expect to read and write short stories, read a novel and develop MLA research skills. Students can also expect to read The Odyssey, Romeo and Juliet, and informational text as well as analyze various forms of poetry and contemporary novels. Video and audio tapes will also be used.

S42 Resource Language Arts 10 A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 10th, 11th & 12th

This course is comparable to American Literature and Composition A & B, in which students develop skills in reading and literature interpretation, as well as skills in organizing and writing well-constructed essays. The students will become familiar with common themes in American literature such as the individual's role in relation to the government, integrity, equality, dreams and visions. Contemporary novels, reading informational text, and video/audio tapes will be used.

Prerequisite: Must have passed Resource Room Language Arts 9

S43 Resource Language Arts 11 A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 11th & 12th

This course is comparable to World Literature and Composition A & B. The focus of this course is on contemporary issues through literature in Asia, Africa, Europe, and South America. Contemporary novels, reading informational text, and video/audio tapes will be used. Graduation Requirement Code B11

Prerequisite: Must have passed Resource Language Arts 9 and 10

S44 Resource Algebra I A & B (Applications, Equations and Graphs)

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

Per IEPC

This course involves math in real-life applications. Students will make connections to Algebra, learn properties of real numbers, solve and graph linear equations and functions as well as write, solve and graph linear inequalities in Section A. Section B provides opportunities to write, solve and graph systems of equations and inequalities, work with exponents and functions, and factor polynomials. This is a required course for high school graduation and is for Special Education students only.

S46 Resource Math Geometry A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 10th & 11th

This course involves math in real-life applications. Students will learn basic geometry using reasoning and proofs with properties of lines, triangles and quadrilaterals in Section A. Section B covers transformation of shapes, similarities in shapes, trigonometry functions, area, surface area and volume of 3 dimensional objects. This is a required course for high school graduation and is for Special Education students only.

Prerequisite: Successful complete of Algebra A & B**S56A Resource Algebra II A**

One Semester, Basic level of difficulty

1/2 creditOpen to: 11th & 12th per IEPC

This is an individualized Special Education course that will cover the Power Expectations of Algebra II at a slower pace. Part A will review concepts taught in Algebra I and build skills to solve systems of equations with two or more variables.

Prerequisite: Successful completion of Algebra I & Geometry**S56B Resource Algebra II B**

One Semester, basic level of difficulty

1/2 creditOpen to: 11th & 12th per IEPC

This course will be a combination of algebraic processes and practices, organizing and displaying data through projects and developing a personal strategy of money management and investment.

Prerequisite: Successful completion of Algebra I, Geometry & Algebra IIA**S45 Resource Consumer Math**

One Semester, Basic level of difficulty

1/2 creditOpen to: 11th & 12th

This is a foundation class in mathematics. Addition, subtraction, multiplication, division, decimals, percentages and fractions operations are utilized with the use of a calculator. However, the content of this class utilizes these functions through the everyday skills of: earning money, buying food, shopping for clothing, managing a household, buying and maintaining a car, working with food, traveling, budgeting, banking, investing, paying taxes and preparing for a career.

S48 Resource World Studies

Two Semesters, basic level of difficulty

1 CreditOpen to: 10th, 11th & 12th

This course will explain how geography, civics and economics affected major events in history. Major topics/objectives covered will be the impact of Geography; development of government; trade and economics; development of religion and ethnic groups; social organizations and culture in areas and time; conflicts, wars, revolutions, and their impact; global connections. This course is only available to students on an IEP.

S52 Resource Room Transition Planning

One Semester, Basic level of difficulty

1/2 creditOpen to: 11th & 12th

Transition planning is a partnership involving students, families, school and post school service personnel, local community representatives, and employers. This course will help promote movement from school to post school activities, including post- secondary education, vocational training, employment, adult services, independent living or community participation.

S49 Resource Directed Study – ASD**1/2 credit****S54 Resource Directed Study**

One Semester, up to one year, Basic level of difficulty

1/2 creditOpen to: 9th, 10th, 11th & 12th

Individualized instruction may be given in some of the following areas:

- study techniques -composition and editing skills
- organizational skills -report writing (including citing of works
- time management and bibliographical entries)
- reading comprehension -mathematics instruction
- prewriting -social skills
- problem solving -goal setting
- proficiency test preparation -transition

Students **will be** required to keep an assignment book and get weekly progress reports.**S60 Categorical Language Arts EI A & B**

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

Individualized Language Arts class is designed to improve student's abilities in the areas of reading, writing, comprehension, oral language, and grammar. The course offers a wide variety of activities and many opportunities to work alone and in a variety of group sizes. The goal of this class is to offer support while students work at their own pace and choose from an assortment of activities that interest them. The students will be reading novels, writing a variety of stories and reports, and working on the parts of speech along with the writing mechanics. This course will hopefully encourage students to read and write for enjoyment.

S61 Categorical Math EI A & B

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

The instruction in this class begins at the instructional level of the student. The teacher determines this level at the beginning of the school year. Each student determines the pace of the class based on their mastery of the subject. Topics taught include Pre-Algebra, Algebra I, and Geometry.

S64 Categorical Directed Study – EI

One Semester, up to one year, Basic level of difficulty

1/2 creditOpen to: 9th, 10th, 11th & 12th

Individualized instruction may be given in some of the following areas:

- study techniques -composition and editing skills
- organizational skills -report writing (including citing of works time management and bibliographical entries)
- reading comprehension -mathematics instruction
- prewriting -social skills
- problem solving -goal setting
- proficiency test preparation -transition

Students **will be** required to keep an assignment book and get weekly progress reports.**S70 Categorical Language Arts ASD A & B**

Two Semesters, Basic level of difficulty

1 creditOpen to: 9th, 10th, 11th & 12th

Individualized Language Arts class is designed to improve student's abilities in the areas of reading, writing, comprehension, oral language, and grammar. The course offers a wide variety of activities and many opportunities to work alone and in a variety of group sizes. The goal of this class is to offer support while students work at their own pace and choose from an assortment of activities that interest them. The students will be reading novels, writing a variety of stories and reports, and working on the parts of speech along with the writing mechanics. This course will hopefully encourage students to read and write for enjoyment.

S71 Categorical Math ASD A & B

Two Semesters, Basic level of difficulty

The instruction in this class begins at the instructional level of the student. The teacher determines this level at the beginning of the school year. Each student determines the pace of the class based on their mastery of the subject. Topics taught include Pre-Algebra, Algebra I, and Geometry.

1 credit

Open to: 9th, 10th, 11th & 12th

S74 Categorical Directed Study ASD

One Semester, up to one year, Basic level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

Individualized instruction may be given in some of the following areas:

- study techniques -composition and editing skills
- organizational skills -report writing (including citing of works
- time management and bibliographical entries) – reading comprehension -mathematics instruction prewriting -social skills
- problem solving -goal setting
- proficiency test preparation -transition

Students **will be** required to keep an assignment book and get weekly progress reports.

S75 Categorical Independent Living A & B

Two Semesters, Basic level of difficulty

This classroom offers five major areas of learning: independent living, vocational skills, community integration, and cognitive skills. The overall objective is to increase independence for the student in his/current and future living environment. This includes personal health care, housekeeping, shopping, cooking, and job skills.

1 credit

Open to: 9th, 10th, 11th & 12th

S69 Targeted Instruction

One Semester, up to one year, Basic Level of Difficulty

1/2 Credit

Open to: 9th, 10th, 11th, and 12th

This course is designed to utilize small group and individualized instruction to work on specific IEP goals and objectives. It is completely individualized based on the needs of the students in the class.

S89 Adaptive Physical Education

One Semester, Basic Level of Difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This is a Physical Education class for special education students who are earning a certificate of completion.

S90 Adaptive Exploratory Arts

One Semester, Basic level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This course is a combination of Art and Culinary Arts.

It provides opportunities for students to explore different areas of artistic expression such as cultural art, different art movements throughout history, and individual artists. It will also provide instruction to help students to independently prepare simple meals by following a recipe, learn kitchen safety and sanitation, different food groups, and explore careers in this area. Students will experience direct instruction, group and individual activities, field trips, and guest speakers when appropriate, videos, and problem solving.

S91 MERIT Scientific Concepts

One Semester, Basic level of difficulty

1/2 credit

Open to: 9th, 10th, 11th & 12th

This Special Education course is designed for students in the MERIT program. Students will learn basic concepts related to science, which will help them become scientific thinkers, increase their scientific literacy and prepare them to be successful in their future science classes.

S92 MERIT Social Studies Concepts

One Semester, Basic level of difficulty

1/2 creditOpen to: 9th, 10th, 11th & 12th

This Special Education course is designed for students in the MERIT program. Students will learn basic concepts related to social studies, which will help them become critical thinkers, increase their social studies literacy, and prepare them to be successful in their future social studies classes.

S95 MERIT Health

One Semester, Basic level of difficulty

1/2 creditOpen to: 11th and 12th

This Special Education course is designed for students in the MERIT program. This course is designed to not only provide knowledge in the various health areas, but also to guide students in mastering the skills to use the knowledge they obtain. Students will practice accessing information, decision making, analyzing influences, interpersonal communication, goal setting and self-management. To introduce concepts, students will first focus on essential life skills they will need to use in order to be contributing members of society and develop an overall well-being. In addition, students will study social/emotional/mental health, nutrition and physical activity, reproductive health and healthy relationships, and drugs and alcohol. Students will be trained in hands-only CPR as is required by the state of Michigan.

S96 MERIT Economics

One Semester, Basic level of difficulty

1/2 creditOpen to: 11th and 12th

This Special Education course is designed for students in the MERIT program. This course is a comprehensive study of the choices and decisions people make about how to use the world's resources. Students will study the basics of economics such as economic systems, supply and demand, market structures, money and banking, financial markets, business cycles and economic indicators. Students will also study the government's role in the economy and the global economy.

CAREERLINE TECH CENTER

One year, Intermediate level of difficulty

3 CreditsOpen to: 11th & 12th

Careerline Tech Center (CTC) provides career education to juniors and seniors in high school and offers the opportunity for students to gain skills and/or prepare for post-secondary education in one of 29 programs. Tech Center classes are free. Programs are offered Monday through Friday and students attend for a half-day either in the morning or the afternoon. Interested students and parents can get more information on Careerline Tech Center by visiting the website at www.oaisd.org/ctc.

Each year, CTC has an open house in October and again in February for parents and potential students to visit the programs and talk with instructors. In February, 10th and 11th grade students have the opportunity to visit programs at CTC before selecting a program the following year. CTC has articulation agreements with 21 area colleges and universities. Those agreements give students the chance to earn college credit while still in high school. Direct college credit may be an option for some students. Early college options allow students to enroll, while at CTC, as a college student. All work is completed at CTC and is part of the standard curriculum. College credit is earned and placed on a transcript to follow students to the college of their choice upon high school graduation.

In addition, CTC will offer students in Engineering Design, Electrical, and Mechatronics/Robotics the opportunity to enroll in an early college program in Partnership with Herman Miller, JR Automation and Grand Rapids Community College. More information on the early college program is provided on the CTC website.

While Tech Center credit is earned as electives, most Tech Center programs offer students the opportunity to receive academic credit (Final Year Math, 3rd Year Science, Visual/Performing Arts, and On-line Learning). All academic credits may not be available in all programs. Check with your high school counselor.

Careerline Tech Center's 29 programs are organized by pathways, broad groupings of careers that share similar characteristics and whose employment/education requirements call for many common interests, strengths, and competencies.

Graduation Requirement Code: Varies based on the program chosen, check with your counselor.

APPLICATION PROCEDURE:

-Fill out a Careerline Tech Center application. Application available on line.-Discuss a program choice with parents and obtain parent/guardian signature.

-Turn in the application to Student Services and meet with your counselor.

-It is strongly recommended that students attend a tour of the Careerline Tech Center. A tour open to all students will be scheduled during the second half of the school year.

Selection for a program will depend on a number of factors including: date application is submitted, attendance and academic readiness, level of interest and counselor interview.

CAREERLINE TECH CENTER PROGRAMS

Advance Healthcare
Agriculture/Animal Science
Auto Body Repair
Automotive Technology
Business Management
Construction
Cosmetology
Culinary Arts
Dental Careers
Diesel/Heavy Equipment Mechanics
Electrical/Alternative Energy
Emergency Medical Services
Engineering Design & Machine Technologies
Entrepreneurship & Global Business
Graphic Design A
Graphic Design B
Health Careers/Certified Nurse Aide
Health Careers/Patient Care Tech
Health Careers/Phlebotomy
IT: Network Security
Mechatronics/Robotics
Media Communications
Environmental Field Studies
Pastry Arts & Baking
Plumbing & Water Systems
Public Safety & Security Services
Software & Game Development
Teacher Academy
Welding

The Careerline Tech Center offers many opportunities for additional experiences. <http://www.oaisd.org/ctc/programs/>
(control + click on link to see the programs offered at Careerline Tech Center)