



# COURSE OFFERINGS

Revised 8/30/22

# WELCOME TO KALKASKA HIGH SCHOOL

Dear Students and Parents,

One of the keys to success at Kalkaska High School (KHS) is the careful planning of the courses taken during your four years at KHS. The purpose of this curriculum guide is to help in choosing the right courses for you.

The school staff believes course selection is important. It should reflect the student's own interests and abilities, future plans, as well as consideration of his or her parents' wishes.

We encourage parents and students to work together in planning for all of your years at Kalkaska High School. In designing your plan, feel free to consult with our counseling and teaching staff. In addition to our staff, we have a computerized career information system available. This system includes a career search that can help students select courses to meet post high school plans.

Graduation requirements are included in this guide. Be sure to read the course description before finalizing your plan. Plan for a variety of courses. The more skills you can acquire, the more options you will have upon graduation.

Good luck at KHS. I hope your four years here will be enjoyable, fulfilling, rewarding and challenging.

Respectfully,

Staci Short  
Principal

# GRADUATION REQUIREMENTS

## Kalkaska High School Diploma - MICHIGAN MERIT CURRICULUM

- 4 credits English
- 4 credits Mathematics (1 credit Algebra, 1 credit Geometry, Algebra 2 and one additional Math credit)
- 3 credits of Science (Biology, Chemistry or Physics, and one additional science credit)
- 3 credits of Social Studies (US History and Geography, World History and Geography, ½ Civics, and ½ Econ)
- .5 credit Healthful Living
- .5 credit Physical Education
- 1 credit of Visual, Performing, and Applied Arts
- ½ credit of an Online Learning Experience
- 2 credits of a World Language (1 credit can be waived – must meet with School Counselor)

Total of 22 credits are required for graduation with a Kalkaska High School Diploma (Class of 2021 and beyond).

## Kalkaska Alternative Program Diploma

- 4 credits English Language Arts
- 3.5 credits Mathematics (1 credit Algebra 1, 1 credit Geometry, ½ credit Algebra 2, 1 additional Math Credit)
- 3 credits of Science (Earth Science, Biology, and one additional science credit)
- 3 credits of Social Studies (US History and Geography, World History and Geography, ½ Civics and ½ Economics)
- .5 credit Healthful Living
- .5 credit Physical Education
- 1 credit of Visual, or Performing, and Applied Arts
- 1 credit of a World Language

Total of 18 credits are required for graduation with a Kalkaska Alternative Program Diploma.

## **CLUBS AND ORGANIZATIONS**

National Honor Society  
Chess Club  
Power Lifting  
Equity Club  
Dance Team

Student Council  
Robotics Club  
E-Sports Club  
Archery Club

## **HIGH SCHOOL INTERSCHOLASTIC SPORTS**

### MEN'S

Baseball  
Basketball  
Cross Country  
Football  
Golf  
Hockey  
Soccer  
Track  
Wrestling

### WOMEN'S

Basketball  
Cross Country  
Hockey  
Golf  
Soccer  
Softball  
Track  
Volleyball  
Wrestling

\* KHS offers interscholastic sports based on student interest and the availability of a qualified coach each season.

## KALKASKA HIGH SCHOOL FIGHT SONG

Smash right through that line big Blue.  
Watch the points keep growing.  
Blazer teams are bound to win.  
They're fighting with the vim. Rah, rah, rah!  
See that line, it's weakening.  
We're going to win this game.  
Fight, fight, rah, team, fight!  
Victory for Blue and White! Fight!

# Course Offerings

## **Business**

Work Based Learning (formally School-To-Work: 3721)

## **English Language Arts (ELA)**

AP English Language Composition (AP1201ELC)

Cinema Studies (128)

Creative Publishing and Digital Design (1231)

Creative Writing (124)

Theatre I (129)

Theatre II (130)

ELA 9 (1021)

ELA 10 (1051)

Pre-AP ELA 10 (1081PREAP)

ELA 11 (1111)

English 12 (1171)

Life Skills English (6015)

Novels (1012)

Video Production and Marketing (326VIDMKT)

The Hyphenated American Experience (1012HAE)

The Graphic Novel (1012GN)

Adulting 101 (6012AD1)

English and Writing Intervention (9104ELWI)

Kalkaska Alternative Program English (9101)

## **Fine Arts**

Basic Design Art 1 (4132BDA1)

Art 2 (4132B)

Advanced Studio – Art 3

Band – Jazz (4221)

Band – Symphonic (4191)

Ceramics and Sculpture (4111CAS)

## **Foreign Language**

Spanish I (1631)

Spanish II (16661)

Spanish III (1691)

Spanish IV (1721)

French I (9150)  
French II (9153)

### **Mathematics**

Algebra I (2071)  
Algebra IB (2075)  
Algebra II (2101)  
Algebra II (Honors) (2102)  
AP Calculus (2281)  
Personal Finance (3310)  
Geometry (2161)  
Geometry (Honors) (2191)  
Life Skills Math (6010)  
Pre-Calculus (2221)  
Pre-Algebra (2071PRE)

### **Physical Education**

Health (506, 506H101112)  
Personal Fitness (PE) (502)  
PE 9 (490PE)  
Athletes in Action (517AA)  
Weights and Conditioning (512)  
Weights and Conditioning II

### **Science**

AP Biology (2751)  
Astronomy (280)  
Biology (2541)  
Biology (Honors) (2571)  
Biology II (Honors) (2691)  
Chemistry (2631)  
Chemistry (Honors) (2632)  
Conservation and Outdoor Science (276CS)  
Earth Science (2511)  
The Science of Farming (2511FARM)  
Earth Science (Honors) (2511)  
Physics (2721)  
Geology of the National Parks (278)  
Computer Aided Drafting and Design (1981CAD)

Electronics (2781ELEC)  
Robotics (2781ROBO)

### **Social Studies**

American History (3221)  
US Historical Wars and Cinema (131)  
AP US History (3223AP)  
AP World History (3272)  
Civics/Econ (3201)  
Civics/Econ (Honors) (3202)  
Contemporary Political Issues (307)  
Current Events (335)  
Michigan History (300)  
World Geography (305)  
World History (3220)

### **Vocational**

Career Exploration: 9<sup>th</sup> Grade  
Life Skills (6012)  
Life Skills: Community Based Instruction 1 (6017)  
Life Skills: Community Based Instruction 2 (6028)  
Support Skills: 9<sup>th</sup> – 12<sup>th</sup> Grade  
Career Tech Center: 11<sup>th</sup> and 12<sup>th</sup> Grade Located in Traverse City

- Film and New Media (7043)
- Front Street Writers (7342)
- Graphic Arts (7641)
- Graphic Design and Promotional Media (7641GDP)
- Business Careers (7341)
- Culinary Arts (7311)
- Information Technology (7721)
- Web and Gam Programming (7361)
- Auto Body Repair (7431)
- Automotive Tech (7671)
- Construction Trades (7251)
- Drafting and Design (Online) (7221)
- Electrical Occupations (7191)
- Manufacturing Technology Academy (7741)
- Mechatronics (7593)
- Power Equipment Technology 7131
- Precision Machining Technology (7551)



- Welding and Fabrication (7581)
- Allied Health (7041, 7042)
- Early Childhood Education (7401)
- Public Safety/Protective Service3s (7421)
- Teacher Academy (8111)
- Transitions (9606)
- Agriscience/Natural Resources (7101)

**Michigan Virtual High School**

These classes can be chosen and reviewed with a school counselor, if a student wants to take a class that is not offered by KHS in person, or if a student is in need of credit recovery, or if a student is enrolled in the Kalkaska Alternative Program. To enroll into a Michigan Virtual High School class a student needs to review enrollment requirements and fill out a contract (<https://michiganvirtual.org/courses/students/>).

**Edgenuity Online Curriculum**

Edgenuity Online Curriculum classes can be chosen and reviewed with a school counselor, if a student wants to take a class that is not offered by KHS in person, or if a student is in need of credit recovery, or to support instruction in the Kalkaska Alternative Program. KHS Counselors will assign courses that students need to fulfill graduation requirements.

**Kalkaska High School EDP Plan**

<b>Grade</b>	<b>Grade Level Expectation</b>	<b>Materials</b>	<b>Event</b>
<b>9th Grade</b>	Develop a positive attitude toward work and learning  Understanding that postsecondary education and life-long learning are necessary for long-term career success	Review EDP  Attend MiCareerQuest  Complete pre and post MiCareerQuest Lessons  Naviance	MiCareerQuest  MiCareerQuest Google classroom lessons  EDP Google classroom lessons- Careers and Pathways
<b>10th Grade</b>	Understanding that postsecondary education and	Review EDP	Career Tech Center Visit

	<p>life-long learning are necessary for long-term career success</p> <p>Gather evidence and consider perspectives to make informed decisions</p>	<p>Complete EDP lessons regarding skilled trades/CTC and lifelong learning, career ladders</p> <p>Visit CTC and NMC- evaluate CTC and early college options</p> <p>Manufacturing Day</p>	<p>Northwestern Michigan College Visit</p> <p>EDP Google classroom lessons- resume, skilled trades, and CTC visit</p>
<b>11th Grade</b>	<p>Identify skills, interests, and abilities and relate them to careers of interest.</p> <p>Apply self-motivation and self-direction to learning; Demonstrate ability to assume responsibility</p>	<p>Review EDP</p> <p>Create a resume</p> <p>Job shadow in a career interested in</p>	<p>EDP Google classroom lesson- Resumes</p> <p>Lessons in networking and elevator pitches</p>
<b>12th Grade</b>	<p>Identify long- and short-term academic, career and social/emotional goals</p> <p>Apply self-motivation and self-direction to learning; Demonstrate ability to assume responsibility</p>	<p>Review EDP</p> <p>Complete resume and talent portfolio</p> <p>Job shadow in a career interested in</p>	<p>In class presentations in English or to principal and other administration.</p>



## **BUSINESS**

### **Work Based Learning (formally School-To-Work)**

#### **Grade 12**

Students enrolled in School-To-Work develop job competence and apply good work habits while using employment as a source of learning. Participation in this program requires a written agreement between the school, employer, and parents/student: fifteen (15) hours of recorded work per week, identified career objectives, and an on-file occupational job analysis. Both the study in school and the part time job are to be planned, supervised, and documented.

## **ENGLISH LANGUAGE ARTS**

### **Cinema Studies**

#### **Grades 9-12**

This semester long Language Arts class will look at movies the way we do literature. The plot, character, and setting will be studied as well as various actors and directors. We will also compare the movies to original literature. In addition we'll be looking at and writing movie reviews. This class will be offered to 9<sup>th</sup>-12<sup>th</sup> graders. Units studied: Introduction and orientation, opening scenes/opening chapters (exposition), a critical approach to viewing cinema, comparative studies (from page to screen), genre, actors and

actresses (a visual variable), directors, producers, and authors.

### **Creative Publishing/Digital Design**

#### **Grades 9-12**

This class introduces the student to journalism and includes history, techniques, and style, as well as concentration on spelling, grammar, and proofreading of the journalistic composition of students. Students are involved in writing, research, reporting, editing, distribution, promotion, finance, and photography as it relates to journalism. This class is responsible for the publication of the school yearbook and the school newspaper.

### **Creative Writing**

#### **Grades 9-12**

This course focuses on writing for enjoyment. Students will also write a variety of papers, stories, and journals that will focus on building confidence in student writing.

### **English Language Arts 9**

#### **Grade 9**

English I is a survey course which includes a variety of high school reading and writing strategies and focuses on inter-relationships and self-reliance. The big ideas in this course include: relationships, survival, sacrifice, true wisdom, truth, integrity, courage, and conflict resolution. Literature study includes novels, plays, poetry, and short stories, with an emphasis on understanding literary terms as well as



critical reading and thinking skills. Listening comprehension and oral communication are practiced and polished throughout the year. Composition focuses on the process of writing. A variety of papers will be assigned and assessed including a formal research paper. Upon completion, a student with a grade of B+ or better may elect Honors English II.

### **English Language Arts 10**

#### **Grade 10**

English II is an American Literature course emphasizing critical response and stance when reading, discussing, and writing. The anchor texts are *The Crucible*, *The Adventures of Huckleberry Finn*, *Of Mice and Men*, and *A Raisin in the Sun*. The “big ideas” around which the anchor themes are built are camouflage, change and friction, resilience, and abundance/scarcity. Student writing will cover a wide variety of genres, including journal, personal reflection, analysis, persuasion, and research. Connections to the real world are incorporated in every anchor text. Skills toward performing well on the ACT PLAN and Michigan Merit Exam are practiced throughout the year. Students earning a B or higher may elect to take Honors English III course as juniors.

### **Pre-AP ELA 10**

#### **Grade 10**

Although the basic objectives remain the same as English II classes, higher-level thinking and writing skills are expected.

Writing assignments are based on several expository styles that utilize both the literature book and a variety of other sources including real-life situations. Essay types are introduced and assigned. Research projects and papers are required and vary in length. Personal goals for college and college exam preparation begins/continues in this course.

Prerequisite: B+ in English 9 and teacher recommendation. A student must maintain a C or better to remain in the honors program.

### **English Language Arts 11**

#### **Grade 11**

English 3 is a British and World Literature course that focuses on Transformational Thinking and Big Ideas such as the Use of Language, Decision-Making, Technology, Civilization, and Survival. Periods covered include Old English, Middle English, Renaissance, Enlightenment, Romanticism, Contemporary British, American, and World Literature. Anchor texts include *Beowulf*, *Canterbury Tales*, *The Tragedy of Hamlet*, *Lord of the Flies*, and *Night*. Vocabulary, grammar, and practice for the American College



Test (ACT) are woven into the format of the course.

### **English Language Arts 12**

#### **Grade 12**

This class is a comprehensive exploration of reading and writing for the non college-bound, as well as the student seeking college preparation or a vocational career. Emphasis is placed on the reading of novels, short stories and poems, and the writing of various essays, creative short stories and poems. Special time will be given to improving students spelling, grammar, and organizational skills. The preparation of research papers of varying length will be studied, as well as career-oriented writing skills to produce sufficient resumes. This course is meant to prepare seniors of diverse abilities for a future outside of high school.

### **AP English Language and Composition**

#### **Grade 11 or 12**

This class is a literature course that focuses on Leadership and Big Ideas such as Power of Story, The American Dream, and Responsibility. Periods covered include Contemporary, Magical Realism, Post modernism, and American and World Literature. Anchor texts include *Their Eyes Were Watching God*, *Things Fall Apart*, *Animal Farm*, *1984*, and *The Grapes of Wrath*. Grammar and vocabulary practice are also woven into the format of the class. Students will demonstrate their mastery

through essay tests and written assignments of various purposes. A student must maintain a C+ or better to remain in the honors program.

Prerequisite: B in English

### **Life Skills English**

#### **Grades 9-12**

This course is for students that struggle with basic English grammar. Placement is determined by Administration.

### **Novels**

#### **Grades 10-12**

This is a fun literature class that focuses on the art of reading. Students will be exposed to a variety of resources including the book *Bird By Bird* by Anne Lamott, short stories, documentaries, media sites, and film. Students have an opportunity to do reading circles and read a number of popular books and read books that are interesting to them.

### **English and Writing Intervention**

#### **Grades 9-10**

This is a full year class for students that are below grade level for reading and writing. Placement is based off of PSAT and NWEA Scores.

### **Kalkaska Alternative Program English Language Arts**

#### **Grades 9 – 12**

This is a full year class for students in the KAP program receiving a KAP Diploma. Students will be exposed to and focus on job and career related reading and writing tasks while exploring novels of interest. Each year, assessment rubrics will become more challenging as layers of skill are built.



## **Theater I**

### **Grades 9-12**

Theater I is a semester long class that concentrates on the “front state activity” of a drama production. In this class students learn about voice control, enunciation, and projection. They also learn about getting into character including essential and dramatic body movement. Drama techniques (such as blocking and stage direction) are covered. Students will have to perform 1-2 plays in front of the school during class. Daily participation and participation in the school plays are a large part of the students’ grades.

## **Theater II**

### **Grades 9-12**

Theater II is offered 2<sup>nd</sup> semester. Theater I is not required before taking Theater II. Theater II focuses on “backstage activity.” This class will work together with the after-school drama club, who will be working on the Spring Musical. Theater 2 students will work on the non-acting aspects of a production including scenery, props, programs, sound/lighting, costumes, etc. Some after-school time will be required so students can meet with the drama club, finish tasks, and be an important part of the evening productions.

## **Video Production & Marketing (In-Person)**

### **Grades 10-12**

This course is designed as an application of basic economics

principles related to marketing, and for utilizing video production equipment, editing software, and collaborative communication to create multimedia campaigns. The course is focused around project-based learning that is production oriented, and serves as a gateway to careers in multiple related fields. Students will frequently break into task groups that will develop ideas for content, record video in the field, edit content on computers, and/or be involved with studio production operations.

## **Graphic Novels**

### **Grades 9-12**

Students will study and practice reading and interpreting both the text and images of the graphic novels. The additional visual component, as compared to text-only novels, requires students to develop their skills in multiple literacies so that they can “read” and understand concepts presented in multiple media simultaneously. Students will read, analyze, interpret, respond to, evaluate and compare graphic novels orally, in writing and in presentations. Students will read texts such as *Persepolis* (living in the Islamic Revolution), *Maus* (WWII and Holocaust survivors) and *American-Born Chinese* (Chinese folktales and the lives of second-generation immigrants.) These graph novels have cross-curricular connections to Art, Art History, World Cultures, Psychology, Sociology and World Languages, and also add to the multicultural diversity of



the English curriculum. The course will encourage and increase student reading, creativity and analysis in challenging ways through easily-accessed texts relevant to students' interests.

### **The Hyphenated American**

#### **Experience**

##### **Grades 9-12**

In this course students will study literature written by African-American, Hispanic- American, Asian-American, Jewish-American, Indian-American and Muslim-American authors to gain perspective on the American experience. This course will focus on the distinct literary styles and cultural influences of "hyphenated Americans." Students will draw comparisons between the different "lived worlds" of these groups and contrast the experience of these groups with the myth of the American dream. Students will attempt to answer whether or not there is an American experience distinct from the hyphenated American experience. The readings and class discussions will ultimately attempt to address ethnic and racial stereotypes that are prevalent in media and pop culture.

#### **Adulting 101**

##### **Grades 9-12**

This class is intended to teach students the life skills necessary to succeed as independent adults, filling in the missing pieces and the strategies to

successfully launch into adulthood. Topics may include practical economics (not to overlap with Personal Finance), health insurance, self care, practical skills, interpersonal communication, workforce preparation, household management, etc. Additional topics will respond to student interest and need.

## **FINE ARTS**

### **Basic Design Art I**

#### **Grades 9-12**

This is a full year art class for those students who like to draw and paint. In this class, students create visual communication of ideas through a variety of media with an emphasis on creativity and workmanship. Society, nature, and the man made environment serve as a source of ideas and subject matter. The emphasis will be on realistic drawing and shading, transparent watercolor painting and opaque acrylic painting, and linoleum as a form of graphics. Other areas of art will also be studied including: design, art vocabulary, art history, critique of art, and the presentation of art for display. All art students participate in an art show at the end of the school year. Art I is a class for those students who enjoy art as a hobby and for those students who eventually intend to specialize.

### **Art II**

#### **Grades 10-12**



Art II is a full year art class for students who have successfully completed Art I and want to work on art at a more advanced level. Students create visual communication of ideas through a variety of media with an emphasis on creativity and workmanship. All Art II students are expected to participate in an art show at the end of the school year. Art II may be repeated for a total of three years with understanding that students will create new and unique projects each year that meet the requirements of the Art II assignments.

### **Ceramics and Sculpture**

#### **Grades 10-12**

This course offers an opportunity for students who wish to create three-dimensional art. Students will learn and develop the use of form using a variety of materials such as plaster, clay, wood, metal and found and recycled objects. Students will also learn techniques of working with clay such as coiling, slab, building, throwing on the wheel, and the glazing and firing process. Students are encouraged to explore individual ideas while producing a diverse body of 3-D work.

### **Advanced Studio-Art 3**

#### **Grades 11-12**

This course is for students who have had two plus years of art classes. This course is for the artist who wishes to develop further that which has been practiced and implemented in other art courses. This is a desirable class for students who are passionate about visual art. This course opens up freedom and flexibility for in

depth creative ideas and projects working alongside the art instructor. This course is also for students wanting to examine art careers and develop art portfolios. Students taking this course will be doing more skilled, planned, open-ended creative ideas to produce skillful art compositions and pieces throughout the year.

### **Band (Jazz Ensemble) Grades 9-12**

Jazz Ensemble is a full year performance (outcomes) based class that is an “off-shoot” of the Symphonic Band, thus all percussionists and wind players are required to be regular members of the principle ensemble – the Symphonic Band. This ensemble is very visible and active performing at basketball games, concerts, school assemblies, Jazz festival in the spring, and more! Students will be exposed to several jazz genres, complex rhythms and improvisations.

Acceptance is by audition or director approval only. Typical personnel instrumentation includes: 2 alto saxes, 2 tenor saxes, 1 baritone sax, 4 trumpets, 4 trombones, 1 electric bass &/or tuba, 1 guitar, 2 drum-set/aux., percussion, and 1 piano. Percussionists will be expected to rotate parts and read music.

### **Band (Symphonic)**

#### **Grades 9-12**

Concert band is a full year performance (outcomes) based class that provides a wide range of musical styles, history, technique, and theory, including traditional and contemporary band





repertoire. Concerts, district festivals, and marching performances occur throughout the year and attendance is required. Opportunities to excel individually are available to those who participate in Solo and Ensemble Festival, Honor's Band, etc. First semester in band will meet Physical Education requirement.

## **FOREIGN LANGUAGE**

### **French I**

**Grades 9-12**

Learning beginning French skills through dialogues, games, projects, drills, and other class work. Become familiar with French culture and foods. Learn to take and write about yourself and your interests.

### **French II**

**Grades 10-12**

Review and expand French skills through games and dialogue, express yourself through powerpoint presentations in French. Enjoy a visit to a restaurant serving authentic French food.

### **Spanish I**

**Grades 9-12**

Learn beginning Spanish skills through dialogues, games, projects, drills, singing, and a puppet show. Become familiar with Spanish and Latin American culture and foods. Learn to prepare a Spanish dish and share with

others. Learn to talk and write about yourself and your interests.

### **Spanish II**

**Grades 9 -12**

Review and expand Spanish skills through drills, games, and projects. Learn to express yourself in Spanish through dialogues, puppet shows, and power point presentations in Spanish. Email a Spanish speaking pen pal. Enjoy a visit to a restaurant serving authentic Latin American food. Sing in Spanish as well.

### **Spanish III**

**Grades 10-12**

Learn to read and express yourself in Spanish in the present, future, and past through interviews, communicative activities, drills, games, and your own dialogues in Spanish used in puppet shows and power point presentations. Learn more about the many Spanish speaking countries and their celebrations. Sing in Spanish, email a Spanish speaking pen pal, and enjoy a field trip to savor Latin American food and culture.

### **Spanish IV**

**Grade 11 - 12**

In this advanced Spanish course, students will learn about a variety of Spanish speaking cultures. Students will use real-world materials (such as: news articles, social media artifacts, videos, etc.) to reflect on cultural practices through Hispanoamerica and Spain. Students will also review and utilize a variety of



grammatical structures, such as: the past, present, subjunctive, and future tenses, to better analyze authentic texts in Spanish. Students will practice and strengthen their conversational, listening, and comprehension skills of the Spanish language. Throughout the year, students will be preparing to take the A.P. Spanish Language and Culture exam in May. Please note: this course will be taught entirely in Spanish. To be eligible for this course, students need to have attained a C or higher in Spanish III.

## MATHEMATICS

### Algebra I

#### Grades 9-12

The course begins with a review of the four basic operations on fractional and decimal numbers. The student will learn the rules for adding, multiplying, and dividing single numbers. This information will be used to evaluate simple equations and solving equations of one or more variables. Additional topics include sets, graphing equations, distribution properties, factoring, addition of like terms, ratios, inequalities, percentages, and functions.

### Algebra II

#### Grades 10-12

Algebra II strengthens student understanding and provides the tools students need to succeed in college. From the first day, students begin to

learn the vocabulary of algebra until the day they take the final exam. Basic knowledge about functions is expanded with the use of graphing calculators. Prerequisite: Algebra I

### Algebra II (Honors)

#### Grades 10-12

Honors Algebra II is an advanced class where topics are taught with more depth, intensity, and at a faster pace. An honors student is expected to work well independently, be a creative problem solver, respond positively in challenging situations, and show a high degree of interest and motivation.

Prerequisite: B in Honors Geometry or Geometry

### Calculus (A.P.)

#### Grade 12

This course is designed to cover first semester college calculus. Completion should prepare the student for the advanced placement exam for A-B calculus. Topics include functions and limits, differentiation techniques and their applications, processes and applications of integration, and a study of logarithmic and exponential functions. Prerequisite is a strong pre-calculus background.

Prerequisite: B in Pre-Calculus

### Pre-Algebra

#### Grades 9-11

Students will be placed in this course if their PSAT and NWEA scores show that they are below grade level. Placement in this course is by Administration only.



### **Geometry Grades 10-12**

This course is an informal approach to the major concepts of geometry. The first half of the course emphasizes basic geometric shapes, terms and definitions and the conceptualization and application of congruence. The remainder of the course deals with similarity, ministration relationships, symmetry, and coordinate geometry. Prerequisite: Algebra I

### **Geometry (Honors)**

#### **Grades 9-12**

This course begins with basic geometric definitions and relationships. Approximately one-half of this course will be development of two-column proofs and the logical thinking process. The proofs will be related to angle relationships, triangles, parallel lines and circles. The remainder of the course will develop properties of plane and solid geometric figure including area, perimeter, volume, and surface area. Prerequisite: Algebra I (H.S. A- in Algebra I or M.S. B in Algebra I)

### **Personal Finance**

#### **Grades 11-12**

Personal Finance is a full year math class designed for students who are interested in a course designed to develop and reinforce the applications of mathematics in today's society. Students will investigate topics such as money management, banking, filing tax forms, calculating net pay, budgeting expenses, making cost comparisons,

buying and renting a home, and finding the cost of operating a motor vehicle. The class will incorporate Dave Ramsey's *Foundations in Personal Finance* curriculum and teaches students how to avoid debt, budget with intention, invest, and build wealth and donate to charities/non-profit organizations. This curriculum gives students the opportunity to set them on a path to win with money, allowing them to change the way they look at money forever. They will be empowered, equipped and entertained, while building confidence in their own financial decision-making. The goal of this course is to guide students in building a strong foundation in logical thinking and problem solving that will enable them to make good decisions in their daily lives. It will help keep the mind fresh in preparation for the ACT and college entrance tests.

### **Pre-Calculus**

#### **Grades 11-12**

This course is a foundation for calculus for the math-oriented student. Its use in problem solving is stressed in the first semester. Second semester topics include linear algebra, probability, complex numbers and basic calculus concepts.

Prerequisite: B in Honors Algebra II, or A- in Algebra II

### **Life Skills Math**

#### **Grades 9-12**



This is a needs based course for students that struggle with basic math skills. Placement is determined by administration.

## **PHYSICAL EDUCATION**

### **Athletes in Action**

#### **Grades 10-12**

Elective Physical Education promotes lifetime sport and recreational activities and provides an opportunity for an in-depth study in specific areas. The student will participate in activities that include (1) health-related fitness activities (cardiorespiratory endurance, muscular strength and endurance, flexibility and body composition), (2) team sports, (3) individual or dual sports, and (4) outdoor pursuits. It includes the study of physical development concepts and principles of sport and exercise as well as opportunities to develop or refine skills and attitudes that promote lifelong fitness. Ongoing assessment includes both written and performance-based skill evaluations. This course is open to both females and males.

### **Health**

#### **Grades 9-12**

The health class teaches students prevention skills and how to make healthy choices about topics that greatly impact our youth in today's society. The following topics are discussed and explored: Mental/Emotional Health, Infectious Diseases, Noninfectious Diseases, Substances Abuse, Managing

Conflict/Violence Prevention, Nutrition, and First Aid.  
Semester Course

### **Physical Education 9 (PE 9)**

#### **Grade 9**

This class is designed for students in 9<sup>th</sup> Grade to achieving healthy levels of fitness and wellness through a variety of lifelong activities. Students will participate in fitness programs to improve cardiovascular fitness, muscular strength/endurance, body composition, and flexibility. Students will also learn rules and strategies of a variety of team and individual sports.  
Semester Course

### **Personal Fitness (PE)**

#### **Grades 9-12**

This class is designed for students interested in achieving healthy levels of fitness and wellness through a variety of lifelong activities. Students will design an individualized fitness program to improve cardiovascular fitness, muscular strength/endurance, body composition, and flexibility.  
Semester Course

### **Weights and Conditioning**

#### **Grade 9-12**

This course focuses on building muscular strength and endurance through free weights, machine weights, and strength building activities. Proper lifting technique, safety, and spotting



will be emphasized. Cardiovascular fitness activities will be incorporated.  
Semester Course

## SCIENCE

### **Biology**

#### **Grade 10**

This year long course will introduce students to many biological concepts and require mastery of others. The major topics of study will include the cell, cell division, DNA, genetics, evolution, pathogens, and ecology. This course will provide laboratory opportunities both within and outside of the classroom. There will be an emphasis on using the scientific method to appropriately collect and analyze data, and both traditional and alternative assessments will be used.

### **Biology (A.P.)**

#### **Grade 12**

A year long course which follows the AP curriculum suggested by the College Board. This course will be of great value to students wishing to earn college credit while still in high school. It will also be a great experience for those interested in a wide range of biology topics. Units of study will include the chemistry of life, cells, cell energetics, cell reproduction, genetics, classification, plants, animals, evolution, animal behavior, and ecology. The focus of the course will be preparation for the AP Exam which includes both multiple choice and free-response questions. The

laboratory portion of the course will be extensive and emphasize advanced molecular biology techniques that most will not experience until their third or fourth semester in college. Students taking this course are required to have completed Biology II or be currently enrolled in Biology II.

### **Biology (Honors) Grade 10**

A yearlong course which follows the same curriculum as Biology I. Laboratory work in Honors Biology I will be more extensive, and, if time allows, several other topics will be reviewed such as insects, fungi, the immune system and the reproductive system. In addition to traditional assessments, laboratory practicals will also be used. Approval from a science instructor is required for enrollment in this course.

### **Biology II (Honors)**

#### **Grades 11-12**

A yearlong course which reviews the Biology I curriculum in greater detail and emphasizes the conceptualization of facts learned. Laboratory work will be modeled after an Introduction to Biology college level course. Ecology will be the main focus of the entire year with many trips to area forests and bodies of water. Students taking this course are required to have completed chemistry, and they are required to have the approval of the instructor.

### **Chemistry**



### **Grades 11-12**

The food you eat, the clothes you wear, building materials for houses and cars, and medicines all result from chemistry. Chemistry is the study of materials: what they are made of and the changes they go through. Through study and experimentation, you will gain a better understanding of the world around you. Global warming, the ozone layer, vitamins, nuclear power, and electricity are only a few of the many topics covered. The study of chemistry begins with atoms, the building blocks of matter and continues to their products: how they affect our quality of life. An emphasis on developing safe and effective laboratory skills will be an important part of this course. If you are interested in science and are considering a career as a nurse, dental hygienist, veterinary assistant or any of a variety of other science-related fields, but math is a challenge, this is the course for you. Prerequisite: Algebra 1

### **Chemistry (Honors)**

#### **Grades 10-12**

Chemistry is the study of materials: what they are made of and the changes they undergo. Through study and experimentation, you will gain a better understanding of the world around you. Global warming, the ozone layer, vitamins, nuclear power, and electricity are only a few of the many topics covered. The study of chemistry begins with atoms, the building blocks of matter and continues to their products;

how they affect our quality of life.

This course is designed to prepare students for a college chemistry course. The Honors Chemistry Class will cover more in depth topics including: Organic Chemistry, VSEPR Theory, and Nuclear Chemistry. Honors Chemistry students will be expected to handle longer, more detailed homework, and design more open ended lab reports. Tests will include more complex math and equations, more essays and memorization.

### **Conservation and Outdoor Science**

#### **Grades 10-12**

In this course we will use hands-on experiences to create an in-depth understanding of the ecology, habitat, and conservation of natural resources. Through outdoor activities, independent and group learning, and interactions with professionals in the field, students will gain a deep understanding of the important role that the natural sciences play in their local community and beyond.

### **Earth Science**

#### **Grade 9**

The course begins with a study of the objects in our universe including stars, galaxies, planets, and satellites. Our Solarsolar system is covered with emphasis placed on the other eight planets. While covering our planet, we will include the study of latitude and longitude and time zones. From here, the earth is broken down into three



main spheres, the atmosphere (air), hydrosphere (water), and lithosphere (land).

### **Earth Science (Honors) Grade 9**

Honors Earth Science is an interdisciplinary approach to the study of the earth and the universe around our planet. The approach mixes science, history, research, and student investigations. Emphasis is put on the impact of man on the environment, with practical information about topics such as ocean and lake uses. Astronomy, geology, meteorology, hydrology, oceanography, and environmental science are the special topics covered.

### **The Science of Farming**

#### **Grades 9-10**

The science of farming is an alternative science course that is a mixture of earth science and biology. It will cover part of exact, natural, economic, and social sciences used in the agricultural industry and the means behind farming. Students will learn about plants and germination in regards to farming.

### **Geology of the National Parks**

#### **Grades 9-12**

We live in an amazing country. There are hundreds of natural wonders in a day's drive from anywhere in the United States. Geology of the National Parks is a class that is designed to give an understanding and appreciation for these natural wonders. We will explore these parks with many photos, videos and experiences. Students who dream,

wonder, and imagine about all the amazing landscapes this country has to offer will thoroughly enjoy this course.

### **Physics**

#### **Grades 11-12**

Physics is the branch of knowledge that describes and explains the material world around us. Physics is broken down into several branches including: mechanics, sound, heat, light, electricity, and atomic structure. From building bridges and trebuchets, to racing matchbox cars and riding roller coasters, students will gain, through experimentation, a better understanding of the physical world around them. Students will develop sound problem solving and experimental skills. This course is a must for students continuing in engineering, architecture, chemistry, biology, astronomy, computers, physical therapy, medicine, or any of a variety of math or science related fields.

Prerequisite: Algebra II

### **Computer Aided Drafting and Design**

#### **Grades 10-12**

CAD is a project based learning course that provides students with a broad introduction into 2-dimensional and 3-dimensional Computer-Aided Design (CAD) and modeling with a focus on construction and product creation. Students will learn how to use industry-leading CAD software programs to model real world projects, and then create them with manufacturing



technologies like 3D printers, laser engravers, and CNC machines. Class is structured in independent projects and portfolios are kept of all work.

### **Electronics**

#### **Grades 10-12**

This electronics course is designed to provide an opportunity to develop a basic background or career related skill in electricity or electronics. The students will explore the use of test instruments to verify and analyze electronic circuits. Students will learn how electronic circuits are designed and used in home, work, and leisure activities. Students will also apply concepts through projects and activities in conjunction with designing and testing various electronic circuits

### **Robotics 1**

#### **Grades 9-12**

Our introductory robotics course is designed to breakdown the complete process of creating and using a fully operational robot. The students will begin by using prototype robots to introduce basic skills, test new designs and practice driving techniques. These prototypes will develop into larger and larger creations, where in the end, the students will have engineered a specific robot to accomplish a specific task.

### **Robotics 2**

This is a more advance Robotics class. You must have taken Robotics 1 first and be participating in the Robotics club

before you can take this calls. Teacher approval is needed.

## **SOCIAL STUDIES**

### **American History**

#### **Grade 9**

American History is a full year required course for graduation. It will provide students with an understanding of people, events, ideas, and documents important to the development of the United States. Through historical evidence, students will analyze and evaluate historical events and personalities and how they impact our nation. The textbook will be supplemented by discussion, informational reading, lecture, audio-visual presentations, and hands-on activities. Students will explore our nation's history from the period of time after the Civil War to present.

One-Year Course

### **US Historical Wars/Cinema (In-Person)**

#### **Grade 9-12**

A semester class that will focus on the history of American warfare starting with the French and Indian War and ending with the current conflicts in Afghanistan and Iraq. About 90 percent of the class will be taught using documentaries and other films. Frequent writing assignments, Cornell Notes, discussion, and debate will also be used to explore the subject matter. Although all American warfare will be





covered, some periods of history will also be thrown into the mix as well because of their relation to the subject matter (example: The Lewis and Clark expedition and westward expansion). Lastly, two periods of American History will be highlighted (more time spent on) throughout the semester; The American Civil War and World War II, because of the abundance of great resources available.

### **Civic Duty and Community**

#### **Awareness**

##### **Grade 10-12**

This class's core concept is for students to give back to their school and local community. Students will work together for the common good of the school and community. Students will learn effective communication skills with dealing with a variety of people. This class will also teach students to work with younger middle and elementary school students and how to properly mentor them in settling into school, lifestyle choices, and study skills.

#### **Civics/Econ**

##### **Grade 10**

This course will provide a deeper understanding of the federal, state, and local governments, and how they operate. The students will learn about the structure and function of our national, state, and local governments under our American federal system. They will study citizenship and strengthen their understanding of the

legal rights and the accompanying responsibilities citizens share in our democracy. As the students analyze their role as citizens of the United States, they will also study the events, movements, people, ideas, and issues which make them citizens of the world as well. A major focal point will be on the United States and its relationship to the rest of the world. Students will become more proficient in researching, problem solving, interpreting maps and primary sources, and communicating both in writing and orally about global issues.

#### **Civics/Econ (Honors)**

##### **Grade 10**

This course will have the same material taught as the regular Civics/Econ class, but it will be taught at a faster pace. The work load will increase with the expectation that the students will be able to handle working more independently.

#### **Contemporary Political Issues**

##### **Grades 9-12**

Gay Marriage, Immigration, Universal Healthcare, Tort Reform, and Gun Control are all examples of issues facing our Nation, both old and young alike, as we progress into the 21<sup>st</sup> Century. But what side of the fence do you stand on? Right or left, Democrat or Republican, or do you fall into a category all your own? Find out how other young minds feel, as we explore these issues in Contemporary Political Issues. Research current topics and build arguments to



support your position. Work as a team to debate fellow students with opposing viewpoints. This class will be split into two sections, with each section focusing on one side of an issue. Both sides will then come together for a student led, spirited, and respectful debate on the issues. Use this class to educate and engage yourself in the Political Issues that face your generation today and for years to come.

### **Current Events**

#### **Grades 9-12**

Current Events is a study of what is happening in the world today. The course uses radio, TV, newspapers, magazines, and the Internet to study events as they happen. The course will use essay, note taking, group discussion, and short tests for evaluation. A final project will be completed using differing resources for a presentation. The emphasis will be on fun and learning about a wide range of topics from many resources. Students will also be required to use information from their social studies classes to analyze world events on a rapid basis and compare their analysis with experienced writers from around the world.

Semester Course

### **Michigan History**

#### **Grades 9-12**

Michigan History is a semester elective course which will cover the history of our state from pre-historic times to present day. Students will explore the

social, economic, and political development of Michigan. The impact of geography, the regional Native Americans, the French and English rule, lumbering, the development of the railroads and industries are only a few of the many topics covered. Students will develop an understanding for the events and issues that have helped shape our state.

Semester Course

### **World Geography**

#### **Grades 9-12**

In World Geography, students examine the relationships among people, places, and environments that result in patterns we see here today. Students use the tools and methods of geography to study the principal regions in the world. Starting with the Americas, we will work our way towards Europe and Eurasia, North Africa and the Middle East, Sub-Saharan Africa, South, East, and Southeast Asia. Students describe the influence of geography on events of the past and present and analyze how location affects economic activities in locations throughout the world.

### **World History**

#### **Grades 10-12**

This course will be a survey of significant events, personalities, and issues that shaped and impacted the history of our world throughout history. The goal is to provide an understanding of the history and culture of the western, as well as the non-western world. Students will develop historical skills



through reading, note taking, listening, discussing, and writing.

### **World History (Honors/A.P.)**

**Grades 10-12**

AP World History is a course designed to allow students to gain college credit in World History while still in high school. This course analyzes and defines six overarching themes in global development from approximately 8000 B.C. to the present. Course evaluation will include periodic tests, team projects, and an assortment of comparative and transitional essays that develop thought, idea, conclusion, and document analysis. Students may gain college credit in World History while still in high school by achieving a passing score on the AP World History College Board Exam.

Prerequisite: C in previous social studies class.

### **AP US History**

**Grade 10 – 12**

AP US History is a course designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full year introductory college courses in American History. Course evaluation will include periodic tests, team projects, and an assortment of comparative and transitional essays that develop thought, idea, conclusion, and document

analysis. Students may gain college credit in US History while still in high school by achieving a passing score on the AP US History College Board Exam. Prerequisite: C in previous social studies class.

## **VOCATIONAL**

### **Career Exploration**

**Grades 9-10**

Students are pre-identified by staff for this class. Students will simply start learning about various occupations and their fit with the student's unique skills, interests and values. Students will engage in exploration in automotive, child care, information technology, and facilities management. They will learn about customer service skills, being diligent at work, and time management skills. After completion of this class students can take Electronics, C.A.D., and Video Production.

### **Life Skills**

**Grades 9-12**

This elective course helps students who struggle with daily living skills and organization. Placement in this course is by Administration only.

### **Life Skills: Community Based**

#### **Instruction 1 and 2**

**Grades 9-12**

This course helps students learn about their local community and what they as students can offer it and what the community can



offer them as students. Students learn about the *Life 101* program in both these courses. Placement in the course is by Administration only.

### **Intervention**

#### **Grades 9-11**

~~Students placed in this course are behind in Algebra 1 and English 9. Students will work on getting up to grade level in this core areas.~~

### **Support Skills (In-Person)**

#### **Grades 9-12**

Students for this class are pre-identified by staff and placed into it based on students need. This class will teach students proper study and time management skills.

## **Career Technical Center**

### **Grades 11-12**

### ***ARTS & COMMUNICATIONS***

#### **Film & New Media**

Learn to communicate effectively using the visual media that dominates communication today. If you learn to tell a good story through video, you can persuade more people, sell more products, and raise more awareness. Learn all aspects of planning and executing effective video communications while mastering the most powerful medium of our time.

#### **Front Street Writers**

Explore and develop your writing craft

in a broad range of creative genres and professional formats. Develop creative and professional writing skills that will be helpful in writing professions such as journalism and communication. The instructors are working writers, and the National Writers Series brings additional authors into the classroom to discuss writing and the writing life.

### **Graphic Arts**

Explore the print and design industry while you acquire hands-on experience and skills in digital imaging and visual communications. Using industry-standard design software and state-of-the-art print production equipment, you will work independently with an emphasis on building a professional commercial portfolio that is a cut above.

### **Graphic Design & Promotional Media**

Combine creativity and visual problem solving on real-world, project-based designs using traditional print and packaging to digital, web, and social media. Using Adobe software, you will collaborate with others and apply graphic design foundation skills to project development and campaigns to promote and market products and services. Build a quality, professional portfolio.

### ***BUSINESS MANAGEMENT, MARKETING & TECHNOLOGY***



### **Business Careers**

Choose from three pathways in this program; general business, accounting, or Early College accounting. General Business provides students an overview of business careers. In accounting you will learn how to keep track of a business's finances. In Early College accounting, students will earn college credit.

### **Culinary Arts**

Develop and apply cooking and serving techniques in the World Class Café, our student-run restaurant. You will learn all aspects of the industry including basic cooking skills, catering, and front-of-the-house hospitality.

### **Information Technology**

Gain technical expertise doing hands-on projects using both current and legacy hardware and software. You will learn to design, implement, and support the technology that business and industry use today. Physical equipment and software is used to simulate local area network environments. Students have opportunities to earn industry-recognized certification.

### **Web & Game Programming**

Use both desktop and web-based applications to learn the basics of game programming, web design, and web

programming. You will prepare for internships or a career in fields such as Computer Science, Multimedia & Visual Communication, Graphic Arts, or Game Programming.

### ***ENGINEERING/MANUFACTURING & INDUSTRY TECHNOLOGY***

#### **Auto Body Repair**

Repair automobile and light truck bodies while you develop the technical competencies needed in this field. Bodywork involves MIG welding, repairing damaged body panels, body panel replacement, and plastic filler applications. You will acquire hands-on experience using welding equipment, specialized tools, and paint spray equipment.

#### **Automotive Technology**

Develop your skills as a technician using industry-standard curriculum and on-the-job experiences at area shops and dealerships. This course follows the ASE-aligned and NATEF-certified Maintenance and Light Repair Curriculum. You will focus on the skills necessary to transition directly into the workforce or to a post-secondary learning opportunity.

#### **Construction Trades**

Use a wide array of power and hand-held tools to complete hands-on projects. Gain an understanding of



blueprints, use of layout instruments, proper installation of both concrete flat work and masonry, rough and finish carpentry, drywall, building codes and laws, and general construction safety.

### **Drafting and Design Online**

Learn about the design, engineering, and manufacturing processes and see how everyday products are designed and produced. Extensive use of state-of-the-art software and 3-D printing provides students with a competitive advantage in college or employment. This course can be taken for high school credit or up to five Ferris State University credits at no cost to you.

### **Electrical Occupations**

Gain a working knowledge of technological areas including: electricity; electronics; utility and electrical distribution, air conditioning; heating; refrigeration; residential, commercial, and industrial wiring. You can prepare for post-secondary training or apprenticeships in residential and commercial wiring, utility or high voltage, or HVAC. This program is also a good option for students interested in robotics, automation, or manufacturing.

### **Manufacturing Technology Academy (MTA)**

MTA is a national award-winning STEM program that integrates high-level, hands-on technical learning with honors academic classes and a rigorous

mathematics curriculum. Get training in critical thinking, problem-solving and teamwork, build knowledge in design and 3D printing, robotics and automation, quality assurance, pneumatics, manufacturing processes, electrical systems, and project management. MTA students design and build competition robots in three different national robotics tournaments.

### **Mechatronics: Applied Technician Training**

Mechatronics applies electrical and mechanical engineering skills to identify, analyze, and solve systems-based problems. Students will learn to use electromechanical equipment, conduct repairs, and monitor operation. Students will also explore concepts including system design, operation, and control, robotics, drones, hydraulics, pneumatic, and many other Mechatronics fundamentals.

### **Power Equipment Technology**

Disassemble, measure, and reassemble two-stroke hand-held and four-stroke lawn and garden-type engines. Get training in shop safety and electrical survival skills. Develop expertise in engine systems including starting, charging, ignition, lubrication, and cooling system theory and service.

### **Precision Machining Technology**

Develop entry level skills for career opportunities in the machine tool field. You will gain technical knowledge and



skill in the set-up and operation of the vertical milling machine, engine lathes, surface grinders, EDM machines, drill presses, band saws, and other support equipment. Skilled machinist jobs are in high demand in the Grand Traverse region.

### **Welding and Fabrication**

Gain practical experience and instruction in the set up and use of equipment and processes common to the welding trade today. Learning and mastering a variety of welds on different metals and types of welding equipment, students leave prepared for entry level employment or college readiness. Students have the opportunity to prepare for and take American Welding Society welder certification tests.

## ***HEALTH SCIENCES***

### **Allied Health**

Gain the knowledge and skills required for employment within diverse health care fields from nursing to physical therapy to pharmacy technician. First-year coursework includes anatomy and physiology, health maintenance, safety, CPR certification and advanced patient care skills. Second-year students expand their medical knowledge through expanded work experience options at Munson Medical Center, pharmacies, and doctor's offices.

## ***HUMAN SERVICES***

### **Early Childhood Education**

Prepare for careers in child care by learning about human development. Create lessons and activities for children, and explore family and child-related career opportunities through job shadows and work experiences. Students will spend time with children and child development experts to understand the complexities of human development.

### **Public Safety/Protective Services**

Gain a broad base of practical experience and content knowledge for careers in public safety, including law enforcement, firefighting, and emergency medical services.

### **Teacher Academy**

Spend one hour a day in the classroom of a mentor teacher, attend conferences and field trips to gain knowledge of education careers. Each marking period you will change placements, so you will experience a variety of subjects and grade levels.

### **Transitions**

This course prepares students for after high school and daily living skills. Placement in the course is by Administration only.



## *NATURAL RESOURCES AND AGRISCIENCE*

### **Agriscience / Natural Resources**

Gain experience in hands-on participation in hydroponics aquaculture, veterinary science, and natural resource issues such as Great Lakes ecology in our state-of-the-art facility. Be part of cutting, planting, growing, and understanding the complexities of plant growth/care.