



COURSE OFFERINGS

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 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

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, $\frac{1}{2}$ Civics, and $\frac{1}{2}$ Econ)
- .5 credit Healthful Living
- .5 credit Physical Education
- 1 credit of Visual, Performing, and Applied Arts
- $\frac{1}{2}$ 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 is required for graduation (Class of 2021 and beyond).

CLUBS AND ORGANIZATIONS

National Honor Society
Student Council
Kiteboarding Club
Power Lifting
Book Club

Drama Club
Chess Club
Robotics Club
Dance Team
E-Sports Club

HIGH SCHOOL INTERSCHOLASTIC SPORTS

MENS

Baseball
Basketball
Cross Country
Football
Golf
Hockey
Soccer
Track
Wrestling

WOMENS

Basketball
Cheerleading
Cross Country
Golf
Soccer
Softball
Track
Volleyball
Wrestling

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

“*” indicates the course can be accessed either in person, or in a virtual format. Each virtual course is taught by a highly qualified Kalkaska High School teacher. Course Numbers are enclosed between parentheses.

Business

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

English

*AP English Language Composition (AP1201ELC)

Cinema Studies (128)

*Creative Publishing and Digital Design (1231)

Creative Writing (124)

Theatre I (129)

Theatre II (130)

*English I (1021)

*English I (Honors) (1024)

*English II (1051)

*English II (Honors) (1081)

*English III (1111)

*English III (Honors) (1141)

*English IV (1171)

Life Skills English (6015)

Novels (1012)

Fine Arts

*Art 1 (4132A)

*Art 2 (4132B)

*Band – Jazz (4221)

*Band – Symphonic (4191)

Choir (402)

Ceramics (4111C)

*Intro to Drawing (403A)

*Intro to Painting (403B)

Sculpture (4111)

Foreign Language

*Spanish I (1631)

*Spanish II (16661)

*Spanish III (1691)

- *Spanish IV (1721)
- AP Spanish Language and Culture (AP1791)
- *French I (9150)
- *French II (9153)

Mathematics

- Remedial Algebra (6131)
- *Algebra I (2071)
- *Algebra IB (2075)
- *Algebra II (2101)
- *Algebra II (Honors) (2102)
- *AP Calculus (2281)
- AP Computer Science (AP377)
- *Personal Finance (3310)
- Remedial Geometry (6130)
- *Geometry (2161)
- Geometry (Honors) (2191)
- Life Skills Math (6010)
- Math Intervention (9206)
- *Pre-Calculus (2221)
- Our World Today: 21st Century Skills (2253TECHMTH)

Physical Education

- *Health (506, 506H101112)
- Sports Activity I (513)
- Sports Activity II (514)
- *Personal Fitness (PE) (502)
- *PE 9 (490PE)
- Athletes in Action (517AA)
- *Weights and Conditioning (512)

Science

- Anatomy & Physiology (2542)
- *AP Biology (2751)
- *Astronomy (280)
- *Biology (2541)
- *Biology (Honors) (2571)
- Biology II (Honors) (2691)
- *Chemistry (2631)

*Chemistry (Honors) (2632)
CSI: Forensic Science (279)
Conservation and Outdoor Science (276CS)
*Earth Science (2511)
The Science of Farming (2511FARM)
*Earth Science (Honors) (2511)
*AP Physics (2732AP)
*Geology of the National Parks (278)
Computer Aided Drafting and Design (1981CAD)
*Electronics (2781ELEC)
*Robotics (2781ROBO)
*Paleontology (PA79461)

Social Studies

*American History (3221)
*American History (Honors) (3223)
US Historical Wars and Cinema (131)
*AP American History (3223AP)
*AP World History (3272)
Civic Duty and Community Awareness (3203)
*Civics/Econ (3201)
*Civics/Econ (Honors) (3202)
Contemporary Political Issues (307)
*Current Events (335)
High School Survival Skills: Now and Beyond (6251HS)
History of Pop Culture (304)
History of American Western (311)
History of American Civil Rights Movement (312)
History of Jazz, Blues, Rock, and Rap (313)
The History of Sport (3501)
Michigan History (300)
Psychology (309)
Street Law (303)
Video Production and Marketing (326VIDMKT)
*World Geography (305)
*World History (3220)

Vocational

Career Exploration: 9th Grade
Intervention (626INT)

Life Skills (6012)

Life Skills: Community Based Instruction 1 (6017)

Life Skills: Community Based Instruction 2 (6028)

Support Skills: 9th – 12th Grade

Career Tech Center: 11th and 12th 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. 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/>).

Kalkaska High School EDP Plan

Grade	Grade Level Expectation	Materials	Event
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<p>9th Grade</p>	<p>Develop a positive attitude toward work and learning</p> <p>Understanding that postsecondary education and life-long learning are necessary for long-term career success</p>	<p>Review EDP</p> <p>Attend MiCareerQuest</p> <p>Complete pre and post MiCareerQuest Lessons</p> <p>Do at least 3 career/Xello scavenger hunts and compare</p>	<p>MiCareerQuest</p> <p>MiCareerQuest Google classroom lessons</p> <p>EDP Google classroom lessons- Careers and Pathways</p>
<p>10th Grade</p>	<p>Understanding that postsecondary education and life-long learning are necessary for long-term career success</p> <p>Gather evidence and consider perspectives to make informed decisions</p>	<p>Review EDP</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>Career Tech Center Visit</p> <p>Northwestern Michigan College Visit</p> <p>EDP Google classroom lessons- resume, skilled trades, and CTC visit</p>
<p>11th Grade</p>	<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>
<p>12th Grade</p>	<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

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 9th-12th 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 (Virtual and In-Person)

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 I (Virtual and In-Person)

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 I (Honors) (Virtual and In-Person)

Grade 9

Although the basic objectives remain the same as the English I 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. The class begins the process of searching for personal goals for college and college exam preparation begins in this course. Students are expected to practice good oral communication and listening comprehension.

Prerequisite: B+ in 8th grade English

English II (Virtual and In-Person)

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.

English II (Honors) (Virtual and In-Person)

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 I and teacher recommendation. A student must maintain a C or better to remain in the honors program.



English III (Virtual and In-Person)

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 III (Honors) (Virtual and In-Person)

Grade 11

All of the basic objectives and texts remain the same as the general English 3 classes; however, higher-level thinking skills are essential and expected. Students will demonstrate their mastery through essay tests and written assignments for a variety of purposes. Students are challenged to achieve deeper understanding through sophisticated discussions and analysis of authors, styles, themes, historical influences, and connections to the present. Woven into the curriculum is

an emphasis on ACT and college readiness.

English IV (Virtual and In-Person)

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.

English IV (Honors) (Virtual and In-Person)

Grade 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.

Reading 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.

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 2nd 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.

FINE ARTS

Art I (Virtual and In-Person)

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 (Virtual and In-Person)

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.

Intro to Drawing (Virtual and In-Person)

Grades 9-12

This course is for those who love to draw or who wish to improve their drawing skills. Students will practice value a way to create the illusion of the third dimension, draw from observation, and explore 1 & 2-pt

perspective and work to illustrate their own comic.

Ceramics

Grades 10-12

This is an intro to Ceramics and is open to any student with the desire to work with 3-d materials. The class will cover the hand building techniques along with throwing on the wheel. Students will discover the history of pottery and also discover the difference between functional and decorative work.

Intro to Painting (Virtual and In-Person)

Grades 9-12

Students in this course will explore the basic techniques of watercolor, acrylic and oil painting. They will explore landscapes, paint from observation, re-create masters as well as develop their own creative works of art. Students are highly encouraged to complete Drawing 1 before taking painting

Band (Jazz Ensemble) (Virtual and In-Person)

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) (Virtual and In-Person)

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 (Virtual and In-Person)

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 (Virtual and In-Person)

Grades 10-12

Review and expand French skills through drills, games, and projects. Learn to express yourself in French through dialogues, and power point presentations in French. Enjoy a visit to a restaurant serving authentic French food.

Spanish I (Virtual and In-Person)

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 (Virtual and In-Person)

Grades 10-12

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 (Virtual and In-Person)

Grades 11-12

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.

AP Spanish Language and Culture (Virtual and In-Person) (Formally Spanish 4)

Grade 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

AP® Computer Science Principles

Code.org's Computer Science Principles (CSP) curriculum is a full year, rigorous, entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. This course is designed to be "accessible for all." Even for people without computer knowledge and background to be successful.

Remedial Algebra

Grade 9-11

Students for Remedial Algebra will be pre-identified by staff and placed into it based on student's mathematical needs. Students will learn various Algebra 1 topics at a slower pace. Some of these topics may include sets, graphing equations, factoring and addition of like terms.

Algebra I (Virtual and In-Person)

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 (Virtual and In-Person)

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) (Virtual and In-Person)

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

Applied Statistics

Grades 11-12

This course is an introduction to statistical reasoning with an emphasis on concepts rather than in-depth coverage of traditional statistical

methods. Topics include sampling and experimentation, descriptive statistics, probability, binomial and normal distributions, and estimation. It is a semester look into the numbers of everyday life. It is a hands-on approach to statistics where interesting and relevant data is gathered. Computers will be used frequently as a tool for analyzing and presenting the data. It is a practical application of mathematics in our daily life.

Semester Course

Prerequisite: Algebra II

Calculus (A.P.) (Virtual and In-Person)

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

Math Intervention

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.



Remedial Geometry

Grade 10-12

Students for Remedial Geometry will be pre-identified by staff and placed into it based on student's mathematical needs. Students will learn various Geometry topics at a slower pace. Some of these topics may include emphasizing basic geometric shapes, geometric terms and definitions, ministration relationships, and coordinate geometry.

Geometry (Virtual and In-Person)

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 (Virtual and In-Person)

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 (Virtual and In-Person)

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.

Our World Today: 21st Technology & Mathematics

Grades 10-12

In this class, students will learn applications of mathematics in order to better access the validity of the information. In order to do this, students will first explore the history and evolution of mathematics. Students will then view a variety of news sources and access the validity of their claims, through the use of technology and mathematical skills. Students will learn how to use EXCEL and other technological resources (such as DESMOS) to better interpret information. As a culmination of the course, students will eventually build their own website. In this website, students will compile information gained throughout the course.

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 (Virtual and In-Person)

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

Personal Fitness (PE) (Virtual and In-Person)



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

Sports Activity I

Grade 9 – 12

Students will be exposed to a variety of individual and team sports. Skills and modified games will be used as progression. Cardiovascular fitness activities will also be incorporated.

Semester Course

Sports Activity II

Grade 9 – 12

Students will be exposed to a variety of individual and team sports. Skills and modified games will be used as progression. Cardiovascular fitness activities will also be incorporated.

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 (Virtual and In-Person)

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.) (Virtual and In-Person)

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) (Virtual and In-Person)

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)

Grade 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 (Virtual and In-Person)

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) (Virtual and In-Person)

Grades 11-12

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.

CSI: Forensic Science

Grades 10-12

A semester long course which will introduce students to the application of science to law. The major topics of

study will include: the crime scene, physical evidence, physical and chemical properties of evidence, the microscope, analysis of hair, fiber, tool marks, fingerprints, other impressions, forensic serology, and DNA analysis. Additionally, skeletal evidence and some forensic anthropology will be explored. This is a laboratory based course with an emphasis on laboratory skills required to process evidence once it has been collected. This class is geared toward juniors and seniors interested in science.

Earth Science (Virtual and In-Person)

Grade 9

The course begins with a study of the objects in our universe including stars, galaxies, planets, and satellites. Our Solar 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) (Virtual and In-Person)

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 (Virtual and In-Person)

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.

AP Physics (Virtual and In-Person)

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 (Virtual and In-Person)

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

Paleontology (Virtual and In-Person)

Grades 9-12

When many people think about paleontology, they think of dinosaurs: Tyrannosaurus Rex skeletons with giant, sharp teeth; the thick, rhino hide of a Triceratops; or the expansive wings of a Pterodactyl. But paleontology, and this course, covers much more than this. Simply put, paleontology is the study of fossils. Knowledge of fossils dates back to the ancient Greeks, who believed that fossils were the remnants of mythological creatures. The word fossils comes from the Latin word fossilis, which means “dug up.” In this course, when we use the word fossil, we are referring to the remains or imprints of once living animals. Fossils take the form of skeletons, shells, or any other hard tissue, animal tracks, impressions, natural casts, borings, and trails. Usually, in order to be classified as a fossil, the material must be older than

10,000 years. Anything younger than this is usually referred to as a subfossil. Think about this: Biology is the study of living organisms; geology is the study of the earth, including the earth’s history, its structure, and its composition. Paleontology studies fossils, which are the remains of early forms of life. In order to understand and reconstruct these ancient animals and plants, scientists must be able to understand the age, composition, and structure of the rocks in which these fossils were found. Additionally, fossils are often used to help determine the age of rock.

Robotics 1 (Virtual and In-Person)

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 (Virtual and In-Person)

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

American History (Honors) (Virtual and In-Person)

Grade 9

Honors American History covers from Reconstruction (the period between 1865 and 1877) to events that happen today. The class looks at information from a vast array of sources. Primary sources, such as William Jennings Bryan's Cross of Gold speech to the writings of Teddy Roosevelt, are used in class. Students will also experience secondary sources from a wide selection of supplements. The class focuses much of its energy in discussion and research. Students will be asked to draw conclusions between historical events and current ones. Research will also be

emphasized in assignments. This combined with the textbook, movies, songs, and other sources make up the Honors American History Experience.

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 (Virtual and In-Person)

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) (Virtual and In-Person)

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 21st 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 (Virtual and In-Person)

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

High School Survival Skills: Now and Beyond

Grades 9-12

This elective course helps students how to survive high school now and after they graduate. Students learn about study skills, daily living skills, and how to improve current skills to be a successful contributing member of society after graduation.

History of Pop Culture

Grades 9-12

This class will provide a look at the last 100 years in a new way, focusing on the development of our culture. This class will look at American History with emphasis on people, movies, art literature, entertainment, fashion, music, and sports. The class will also take a look at technological advancement, the effect of consumerism and the development of mass media in the 20th century. Projects include group projects and individual presentations and the

class will be student led for the most part.

History of the American Western

Grades 9-12

This course will provide an introduction to the history of the place that we now know as the U.S. West. A vast and varied region stretching from the Appalachian Mountains to the Pacific Ocean, the West has both been characterized by its diversity and bound together by a shared regional identity and history. Beginning with the eve of European expansion in the seventeenth century, and focusing largely on the late eighteenth through early twentieth centuries, this course will focus on the historical processes that have defined the West and its place within the United States. Using films, memoirs, letters, and articles, we will explore the struggles for land, resources, identity, and power which have characterized the West and its role in the nation, as well as the relationship between the western past and the myths and stories that have secured the region's prominent place in the American imagination.

History of the American Civil Rights Movement

Grades 9-12

The Civil Rights Movement is one of the most significant sources of social change in the United States during the 20th Century. This course analyzes the structure and dynamics of the Civil Rights Movement from the viewpoints



of history, sociology, and political science. By paying close attention to the roles of organizations, leadership, ideology, political culture, gender, and counter-movements, students will be able to evaluate the short and long-term effectiveness of the Civil Rights Movement on American Society.

History of Jazz, Blues, Rock, and Rap **Grades 10-12**

This course will focus on the role of popular music in American history and its relevance to American society and culture from the late 19 century to the present. Students will critically discuss the genres and origins of jazz, blues, rock and roll, and rap as historical text and marks of cultural and political identity. Class time will be spent listening to, analyzing, and discussing a wide variety of recorded music, performances, and watching subject related documentaries and films. Possible musical performances in class or field trips may also be a possibility.

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

Psychology

Grades 10-12

Psychology is an introductory course designed to provide the students with an over view of the historical and current perspectives in the field of psychology. Topics include early, adolescent, and adult development, learning, remembering, language, motivations, and emotions, personality theories, and mental and behavioral disorders. The textbook is supplemented by case studies, activities, and guest speakers. Career opportunities in the field of psychology are explored. Each student reads a book of his or her choice about some field of psychological research.

Semester Course

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.

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 (Virtual and In-Person)

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.) (Virtual and In-Person)

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.

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.