

MERRITT ACADEMY

COURSE
OFFERINGS/
DESCRIPTIONS
2023-2024

HIGH SCHOOL CLASSES

-CP (College Prep) Courses: CP Courses cover the same material as regular courses but at an accelerated pace and with a more extensive examination of the curriculum. Also have weighted GPA and based on a 4.5 grade scale.

-AP Courses are available to take online or through synchronous learning with Cardinal Mooney

-Online Courses: All online courses are available through Clintondale Virtual and Michigan Virtual

-Certain elective courses are offered through online synchronous learning with Cardinal Mooney (will be identified)

Core Classes:

Class Title	Description	Duration	Delivery Method
Biology/ CP Biology	A lab-oriented science course that investigates the diversity of life-forms in depth while revealing their relationships and fundamental unity in function. This course will provide students, through a variety of learning experiences, with an overview of biological processes, theories and concepts. Biology is the study of living things, including animal, plant, microorganisms and fungi, and their interactions with the environment. Emphasis is placed on the development of critical thinking through the use of the scientific method and laboratory activities. In addition, this course will provide students with the skills and information necessary to form opinions and make decisions involving scientific issues. As an integral part of this course, students will learn about their responsibility towards the environment.	Year Long	In person
Physics/ CP Physics	Physics is a course designed to allow students to explore the basic concepts of physics. In physics we study motion, forces, matter, and energy. Students will be encouraged to explore the relationship between science and everyday life.	Year Long	In Person
Chemistry/ CP Chemistry	Chemistry class covers the Michigan core curriculum. The class begins with matter, states of matter, chemical and physical properties. Through the class the students understand the elements, periodic table and elemental trends based on periodic law. The class culminates in balancing chemical equations, stoichiometry, the mole, and acid/base reactions	Year Long	In Person
Applied Science	Applied Science and Research is a course in which students will view themselves as scientists in the process	Year Long	In Person

	of learning. Students will plan and carry out investigations in the fields of life, earth and physical science. They will then communicate their findings using a variety of methods. Students will raise questions, propose explanations, make observations, analyze data and develop solutions. Students will then critique their science practices and limitations.		
Science RR	Throughout the school year, we will be looking at many different scientific concepts and discussing them. Much of the class work in group work, which is used to help students improve upon their communication and teamwork skills. They have projects and presentations that go along with the concepts as well, and this helps them work on their public speaking and eye contact.	Year Long	Face to Face
Algebra 1/ CP Algebra 1	Main concepts: Writing and solving linear equations and inequalities. Properties of simplifying expressions with exponents and radicals. Basic Statistics and data interpreting. Introduction and application to factoring and quadratic functions, as well as polynomials. Applying problem solving skills.	Year Long	In Person
Algebra 2/ CP Algebra 2	Quadratic functions and their application to the real world, including complex numbers. Solving equations of all types; linear, quadratic, exponential, radical, rational, higher degree polynomials. Simplifying of rational functions and identifying restricted values. Simplifying trigonometric equations and applying them in geometric settings. Basic probability and counting principals	Year Long	In Person
Geometry/ CP Geometry	Main Concepts that are covered are: experimenting with transformations in the coordinate plane; understanding congruence (rigid motion) and similarity with a high enough degree to prove geometric theorems (postulates, corollaries); solving ratios using properties of triangles; using coordinate geometry by relating graphs and equations; extending geometry ideas to three dimensions; solving algebraic equations using geometry concepts; and understanding properties of all 2D shapes.	Year Long	In Person
Personal Finance	Personal Finance is a math course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets, simulate use of checking and savings accounts, demonstrate knowledge of finance, debt, and credit	Year Long	In Person

	management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.		
CP Pre-Calculus	Main concepts: The nature of graphs: continuity, end behavior, critical points, and variation; Trigonometric functions: angles, degrees, unit circle; graphs of trigonometric functions; Trigonometric identities and equations. <i>Prerequisite: Algebra 2</i>	Semester	In Person
Statistics	Main concepts that are covered are: Concepts that discuss Descriptive statistics: summarizing, representing, and interpreting data on a single count of measurement variable and two variable, understanding, evaluating, and making inferences about population; justify conclusions from sample surveys, experiments, and observational studies; Understanding independence and conditional probability and use them to interpret data; and calculate expected values and interpret real life situations. <i>Prerequisite: Algebra 2</i>	Semester	In Person
Math RR	Over the course of the school year, we focus on geometry, algebra, real and complex numbers, as well as real life math skills. We also work on individual IEP goals and progress monitoring, while helping students build on skills they will need to be successful in everyday life.	Year Long	Face to Face
English 9	Students will enhance their knowledge of literary terms and texts. In the ninth-grade segment of English, students will read several short stories, as well as "Night," by Elie Wiesel, "To Kill a Mockingbird," by Harper Lee, and the Shakespearean classic, "Romeo and Juliet." Students learn about authors and literary periods, while evaluating the text. In this class, students will also work on grammar, vocabulary, and writing skills. Students will also write a compare and contrast paper to conclude the class.	Year Long	In Person
English 10	Tenth grade English will address taking a stance and thinking critically through reading and interpreting classic and contemporary American Literature. Students are expected to read and respond to a variety of literature, independently, in group discussion and in writing. All facets of language arts - listening, speaking, reading, writing will be covered. The study of language in use – grammar, mechanics, sentence structure, and usage will be incorporated in this course as well. SAT preparation will also be included to aid in long-term retention of the skills assessed on the	Year Long	In Person

	test		
English 11/11CP English	Students will apply knowledge of literary terms and concepts to evaluate both fiction and non-fiction texts. SAT preparation will be addressed throughout the class by reviewing grammar, academic vocabulary, writing practices, and text analysis. Texts to be studied include: "Beowulf," "Canterbury Tales," "Sir Gawain and the Green Knight," "Hamlet," "1984," and "Frankenstein." Students will also conclude the class with writing a research paper.	Year Long	In Person
English 12	Twelfth grade English will address taking a stance and thinking critically through reading and interpreting classic and contemporary World Literature and African American Literature. Students are expected to read and respond to a variety of literature, independently, in group discussion and in writing. All facets of language arts - listening, speaking, reading, writing will be covered. The study of language in use – grammar, mechanics, sentence structure, and usage will be incorporated in this course as well. Coursework will aim to prepare students for the expectations of a post-secondary education program.	Year Long	In Person
ELA RR	Students will be working on improving their writing skills by working on a different paragraph with focus on different areas each week. We will also be reading and listening to a novel and answering comprehension questions that go along with it. The students will also be participating in group work and projects along with the novel.	Year	Face to Face
U.S. History	US history is a course that is designed to help students take a conceptual look at the changes that occurred in America's culture, politics, environment and economy from the Reconstruction period to the present. In this course, students will study and discuss the major events of US history within their geographic contexts. The course's intent is to help students better understand the themes of US history which have shaped and continue to shape our lives here in America. The concepts explored in this course will continue to prepare and empower students to make choices as responsible participants in American society.	Year Long	In Person
Government	American Government offers students the opportunity to learn about the three branches of government as well as their role and responsibility as citizens. The goals of this class are that students recognize the strengths and weaknesses of democratic form of government and	Semester	In Person

	develop a realization of the necessity of individual participation to ensure a successfully functioning government.		
Economics	The purpose of Economics is to aid students in understanding the basic principles of our economic system and that of other countries. Further aim is to enable students to gain knowledge of economic principles for use in everyday lives. Specific units are production, supply and demand, stock market money, credit, banking, personal income, the government and its economy, and major economic problems in the United States. This class is college preparatory, required by the State of Michigan for graduation. The fast pace can be a challenge for some students, so seeking help when needed is essential.	Semester	In Person
World History	World history is a course that is designed to help students understand themselves as global inhabitants. Students will study and discuss the major events of world history within their geographic context. This course takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment.	Year Long	In Person
Global Studies	Global Studies is a study of world regions, cultures and global issues that will help students develop research, writing and analytical skills. The purpose of Global Studies is to give students an understanding and appreciation of major geographic and cultural areas of the world and the issues and challenges that unite and divide them. The essential social studies concepts and skills in this course provide a foundation for continuing study in social studies. The areas of study will include North America, Latin America, the Middle East, Africa and Asia. In each area, an emphasis will be placed upon regional characteristics, challenges and cultural heritage. Students will be expected to understand global interdependence as it relates to culture, resource management, conflict and human rights. Moreover, students will explore the relationship between diverse cultures and the world in which they live. Students will read, write, discuss, analyze and take positions on multiple topics in order to frame and defend arguments. Students will use a variety of print and non-print sources to analyze and suggest solutions to real-world problems and to analyze environmental and societal issues.	Year Long	In Person

	Students will develop critical thinking skills and perspectives to better understand the world around them.		
Social Studies RR	Students will be working on many important social studies skills during the school year. We talk about being a good citizen, and what all that entails. They also are introduced to economic, civics, and history topics. We work in groups and on individual projects to help students feel comfortable in any of those scenarios.	Year Long	Face to Face
AP Language and Composition	Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn composition style and process, starting with exploration, planning, and writing. This continues with editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and professional contexts. In this equivalent of an introductory college-level survey class, students prepare for the AP exam in May, and for further study in communications, creative writing, journalism, literature, and composition. A GPA of 3.0 or higher is required with Administration approval. Students are required to take the AP exam in May.	Year Long	Synchronous Cardinal Mooney
AP Literature and Composition	AP Literature and Composition is a challenging course, and students are expected to read at least one required novel over the summer prior to the class beginning. Students will read more novels and plays than the World Literature class and move at a faster pace. They will increase their vocabulary, complete projects, make oral presentations, and write different types of papers including a critical analysis, timed essays, and literary criticism. Novels, plays, short stories, nonfiction and poetry are read and discussed that cover the history of literature from the Greeks to modern writers. Students are required to take the AP exam in May.	Year Long	Synchronous Cardinal Mooney
AP U.S. History	AP US History provides students with the analytical and factual knowledge necessary to deal with the problems and materials in U.S. History. Prepare students for intermediate and advanced college courses by making demands upon them that are equivalent to those made by introductory college courses. Teach students to assess historical materials – their relevance to given interpretive problems, reliability, and importance – and to weigh the evidence and interpretations presented in historical scholarship. Develop the necessary skills to arrive at conclusions on the basis of an informal judgment and to present reasons and evidence clearly and persuasively in	Year Long	Synchronous Cardinal Mooney

	easy format. (Students are expected to complete summer work prior to the class) It is required to take the AP exam in May		
AP Government	AP US Government, Politics & Economics is a course that requires the student to become familiar with the various institutions, groups, beliefs and ideas that constitute U.S. government and politics. Students will be required to analyze and interpret information contained in their textbook, current events, classroom discussions and various media sources. They will become very familiar with economic policies, both fiscal and monetary. Students are required to take the AP exam in May. (Students are expected to complete summer work prior to the class beginning.	Year Long	Synchronous Cardinal Mooney
AP Human Geography	AP Human Geography is an introductory college course that will introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. Students are required to take the AP exam in May.	Year Long	Synchronous Cardinal Mooney
AP Physics	AP Physics 1 is an Algebra II-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. Students are required to take the AP exam in May.	Year Long	Synchronous Cardinal Mooney

Electives:

Class Title	Description	Duration	Delivery Method
World Cultures	World culture class is an elective class in which students will study different groups of people throughout the world. Students will look at common cultural backgrounds that connect groups of people together. Some factors include historical events, geographical location, language, and belief systems. Some other areas that will be explored are family, food, daily life, clothing, celebrations, music, dance and art.	Semester	In Person

Creative Writing	Creative Writing will be dedicated to the exploration of creativity in thought as well as in writing. This course is designed to aid students in their creative expression, as well as the delivery of their writing. Many different types of writing will be explored and may include writing such as: poetry, memoirs, graphic novels, scripting, children's literature, and journaling. Students will practice different writing techniques to enhance both the process of writing, as well as the process of creative thinking.	Semester	In Person
Drama	This course is designed to introduce students to the various elements of theatre and performing arts. Students will study various plays as well as the jobs of theatre such as: acting, directing, set design, sound, lights and make-up. Students will learn to become more comfortable in front of groups while performing scenes, reading and monologues.	Semester	In Person
Publications	Students in Publications will practice all aspects of the writing and publishing process. Students will research, write, edit, design and publish written work via a school newspaper, yearbook, etc. They will also be exposed to all roles and assignments within our publications team.	Year Long	In Person
Forensic Science	The application of science to criminal activity for the purpose of discovery. This course is about how, why, and where to examine evidence in order to get the most pertinent information from a crime scene. The main part of the course details many of the more popular topics in forensic chemistry: fingerprints, blood and DNA typing, blood spatter, handwriting and Document analysis. Students will learn and practice how each type of evidence is discovered and processed, using the scientific process.	Year Long	In Person
Pathways	The goal of this class is for students interested in entering the workforce post high school to gain useful skills and experiences. Each student will work with a mentor as well as the program coordinator to develop goals and create a path to achieving them. It will consist of daily tasks with mentor as well as weekly check-in and assessments with program coordinator.	Semester	In Person
Weightlifting	Advanced Physical Education is designed to further enhance the fitness skills learned in regular Physical Education and promote the development of a fit, healthy lifestyle. The focus of the class will address the five components of fitness: resting measurements, cardiorespiratory endurance, muscular strength,	Semester	In Person

	<p>muscular endurance and flexibility. Students will also go in depth, learning about the muscular system, thus being able to identify correct lifting techniques to strengthen each group. Students will be encouraged to personalize and maintain a fitness plan that helps them to achieve their own personal fitness goals. With this course as a guide, students will be empowered to create positive health behaviors within their own fitness and wellness throughout their lifetimes.</p>		
Health	<p>Students will: comprehend concepts related to health promotion and disease prevention; demonstrate the ability to access valid health information and health-promoting products and services; demonstrate the ability to practice health-enhancing behaviors and reduce health-related risks; analyze the influence of culture, media, technology, and other factors on health; demonstrate the ability to use interpersonal communication skills to enhance health; and demonstrate the ability to advocate for personal, family, and community health. Specific topics include: nutrition, mental health, communicable diseases (HIV/AIDS is a mandated piece of this section), ATOD (alcohol, tobacco and other drugs as mandated by state and federal law), family life and relationships. Students are strongly encouraged to discuss the course content and work with their families for the duration of this course.</p>	Semester	In Person
Physical Education	<p>Physical Education is designed to promote fitness and life-long leisure activities by exposing students to a variety of team and individual sports such as: Pickleball, Volleyball, Basketball, and other unique fitness games. There is an emphasis on skill development, social teamwork and fitness evaluations that will empower students the knowledge and understanding for various life-long activities. Students will demonstrate the ability to perform basic and advanced skills and tactics to participate in various sporting activities.</p>	Semester	In Person
Mock Trial	<p>Mock Trial focuses on developing the knowledge and skills necessary to live in our law-saturated society. Our co-curricular forensics program provides a wide variety of opportunities for students to improve their skills in public speaking, disciplines of rhetoric, logic, and argumentation. Additionally, the students will have a practical understanding of law, the legal system, and how it affects us. In addition, the student</p>	Year Long	In Person

	will develop an awareness of current issues, a great sense of justice, tolerance and fairness.		
Business Entrepreneurship	Students will be introduced to the basic fundamental principles of business. They will look at supply and demand and the impact on business. They will also explore the basic concepts of the financial aspects that go into a successful business.	Semester	In Person
Current Events	The study of the world around us in the 21st Century. Topics will range from political parties and presidential elections, the war on terror, immigration, crime in America, etc. We will utilize different media outlets including the internet, television news, and of course, the newspaper. Students will be expected to participate in daily classroom discussions, debates and projects as we analyze major topics.	Year Long	Synchronous Cardinal Mooney
Art 1	Art 1 is a project based introductory high school art class for the beginning art student. Concepts taught will include the basic elements and principles of design as well as an assortment of artistic styles and techniques which will be explored and applied to primarily two-dimensional projects using various types of media.	Semester	In Person
Art 2	Building off of previously established concepts Art 2 is an intermediate high school course which will continue to explore the utilization and application of mixed media to two dimensional projects. Students will be encouraged to discover their artistic style through experimentation and use of multiple styles and techniques.	Semester	In Person
Art 3	Focusing on the cultural impact of art throughout the ages Art 3 is an intermediate course which will allow students to learn and apply techniques used by cultures around the world. With a deeper attention on art history from the past to present day students will develop a stronger understanding of the importance and cultural impact that art has had on civilization as we know it.	Semester	In Person
Art 4	Using a culmination of previous concepts students will explore graphic design possibilities through the use of current technologies in this intermediate level class. Emphasis on multimedia tool functions, composition, and experimental techniques will be explored throughout the course.	Semester	In Person

20 th Century History	20 th Century History is a course providing an in-depth look at the history of the United States beginning with World War II until the present day. Throughout the semester students will learn about the effects the Second World War had on the nation and the world, the Cold War, the civil rights movement, the Vietnam War, the politics and economics of the time period and the country's challenges for the new century. The curriculum includes the reading and discussion of the text, videos to enhance learning, group and research projects, and other various learning activities.	Year Long	Synchronous Cardinal Mooney
Film Studies	Film Studies is a course designed to familiarize students with the evolution of film history as well as learn how to appreciate, analyze and interpret theme, character, story structure, and narrative technique through the medium as they study movies, read and write scripts, and learn about the business of cinema. A majority of this class will be based off of self-reflection and class discussion.	Semester	In Person
Life Skills	The Life Skills class offers students an opportunity to explore things in life that they will experience after they graduate from high school. Some of the topics include basic automotive and home maintenance, maintaining a checking account, nutritious eating, and setting and keeping a budget. Other topics may be discussed that are of interest to the class.	Semester	In Person
Computer Skills	The Computer Skills course is designed to develop students' computer literacy, keyboarding skills and to meet the needs of students entering both the work force and post-secondary education. The student will learn from hands-on experiences, basic skills in file management utilities, word processing, spreadsheets, and graphical presentations in the Google Suite environment.	Semester	In Person
Algebra 1 Math Lab	Algebra 1 Math Lab class. This class is the period directly following the Algebra 1 class. The intent of the Math Lab is to provide additional time with me where we will work on homework, reinforce previous math skills, and maintain additional time needed for the Algebra 1 content. The Math Lab class will not require additional homework. However, participation will be graded during the additional class period as well as work completed during the class.	Year Long	In Person
SAT Prep	Review of basic algebra concepts. Focus on important concepts needed for both Algebra 1 and Algebra 2 curriculum. Concepts reviewed are a large part of	Year Long	In Person

	review for SAT as well as basic problem-solving skills.		
High School Band/ Wind Ensemble	The Merritt Academy High School Wind Ensemble is comprised of students ranging from two years instrumental music experience to those who have had up to seven years instrumental music experience on a concert band instrument. The instruments used in this class fall into the following categories: woodwinds, brass, and percussion. In addition to daily rehearsals each student is expected to practice at home on his or her own time. In the Merritt Academy High School Wind Ensemble, students will be taught fundamental techniques applicable to their instruments and will be expected to demonstrate these techniques during rehearsals and performances. In addition to those techniques, students will be introduced to basic music theory.	Year Long	In Person
Academic Studies- Resource Room	Students with learning differences work individually or in small groups with staff that provides these students assistance in developing strategies to help each be more successful with targeted areas of study. Students will understand more about their learning differences and their learning style in order to more confidently approach their education and advocate for themselves.	Semester	In Person
RR Life Skills	In life skills, we work on many different skills to help students be successful in their lives. We go on field trips where students can practice using money, ordering something on their own, shopping in a grocery store, and interacting with other people. We also work on cooking and measurement skills, health, and budgeting.	Year Long	Face to Face
Transition- Resource Room	Students will review and practice skills related to transition domains in order to prepare for and assist with their transition to life after high school. Such domains include Self-Determination (decision making and goal setting), Social Skills (appropriate expression of feelings and asking for help), Employment Preparation (job exploration, job applications, and interview skills), Independent Living (budgeting, community access, and health), and Post-Secondary Education (exploration of post-secondary options and study skills).	Semester	In Person
French 1	French 1 will focus on the areas of listening, reading, writing and speaking. The first-year student will be able to use the present tense of frequently used verbs in all forms of speech: statements, questions and negative	Year Long	In Person

	sentences. Students will be introduced to the French-speaking world, customs and traditions by means of audio, video, and cutting-edge technology. Cultural studies include French cuisine, school system, family life, calendar, music, geography and art.		
French 2	French 2 students will demonstrate reading, listening, writing and speaking proficiency in the passé composé, recent past, near future and imperfect tense, imperative mood and other grammatical concepts. French historical and cultural knowledge will be closely related to the grammatical and lexical structure of the course. ** Must have evidence of French 1 credit.	Year Long	Synchronous Cardinal Mooney
Italian 1	Italian 1 will provide a basic practice in listening, reading, writing and speaking the Italian language. Learning will concentrate on bringing new vocabulary and grammar into relevant and meaningful communicative situations. Students will be introduced to Italian culture, customs, and traditions by means of audio, video and computer technology that will enhance students' ability to communicate in Italian. Cultural studies will include Italian cuisine, family life, famous people, sports, free time activities, geography, art, and Italian catholic heritage.	Year Long	Synchronous Cardinal Mooney
Italian 2	Italian 2 emphasizes speaking and understanding Italian through vocabulary building, grammar applications, guided conversations and a variety of communicative activities that will improve students' pronunciation and comprehension. Students will continue to develop proficiency in the areas of listening, reading, writing and culture. Cultural studies will include Rome, music, vacations, getting around Italy, family celebrations and Italian Catholic heritage. ** Must have evidence of Italian 1 credit.	Year Long	Synchronous Cardinal Mooney
Spanish 1	Spanish 1 introduces the students to the Spanish language and culture. The course focuses on reading and comprehending short dialogues in Spanish. Students will develop basic vocabulary and grammatical skills to be used in conversational exercises.	Year Long	Synchronous Cardinal Mooney
Spanish 2	Spanish 2 is a continuation of Spanish 1 with emphasis on grammar, culture, history, and geography of Hispanic speaking nations. In addition to material presented in the texts, students are introduced to selected readings and short stories from a variety of sources including children's books and newspapers. ** Must have evidence of Spanish 1 credit.	Year Long	Synchronous Cardinal Mooney

MIDDLE SCHOOL CLASSES

Class Title	Description	Duration	Delivery Method
Math 6	Students build upon their elementary math foundations by mastering concepts involving the real number system and geometry. Students also learn introductory concepts about ratios and proportions, algebra basics, and statistical data displays. Students use mathematical practices to solve problems involving these concepts.	Year Long	Face to Face
Math 7	Students build upon their 6th grade foundations by mastering concepts involving ratios and proportions, geometry, and statistical data displays. Students apply algebra skills at a higher-level involving expressions and equations to prepare them for the next level math. Students use mathematical practices to solve problems involving these concepts.	Year Long	Face to Face
Math 8	Students build upon their 7th grade foundations by mastering expressions and equations to apply them to pre-algebra concepts. Students also learn skills to solve problems involving irrational numbers, slope, functions, transformations, and bivariate data displays. Students use mathematical practices to solve problems involving these concepts.	Year Long	Face to Face
Algebra 1	Main concepts: Writing and solving linear equations and inequalities. Properties of simplifying expressions with exponents and radicals. Basic Statistics and data interpreting. Introduction and application to factoring and quadratic functions, as well as polynomials. Applying problem solving skills.	Year Long	Face to Face
Algebra 1 Math Lab	Algebra 1 Math Lab class. This class is the period directly following the Algebra 1 class. The intent of the Math Lab is to provide additional time with me where we will work on homework, reinforce previous math skills, and maintain additional time needed for the Algebra 1 content. The Math Lab class will not require additional homework. However, participation will be graded during the additional class period as well as work completed during the class.	Year Long	Face to Face
Math RR	Over the course of the school year, students will learn foundational skills to help them in the real world. We focus on	Year Long	Face to Face

	IEP goals, along with real life math skills. Some of these skills include telling time, counting money and making change, and multi-step problems		
6 th Grade Social Studies- World Geography	Using the Five Themes of Geography (Location, Place, Movement, Region, and Human-Environment Interaction) as a basis for learning, students will study various aspects of life across the continents. Concepts include population, culture, government, economics, and global issues. Students will analyze the relationships between people, their cultures, and their environments, in their communities and within the larger world context.	Year Long	Face to Face
7 th Grade Social Studies- World History	The 7th grade World History course covers content from early humans through the development of major empires. Students will study the geographic, environmental, and cultural processes that influenced the rise of the earliest human communities, the migration and spread of people throughout the world, and the causes and consequences of the growth of agriculture. Students will describe and compare defining characteristics of early civilizations and pastoral societies, where they emerged, and how they spread. Finally, students will analyze classical civilizations and empires, the emergence of major world religions, and how these impact our world today.	Year Long	Face to Face
8 th Grade Social Studies- U.S. History	The 8th grade US History course covers content from the development of the Constitution through the Civil War and Reconstruction. By studying the major events in US history, students will gain an understanding of how the United States began to develop over time and the challenges that the new government faced. Geographic, civics/government, and economics content is integrated within the historical context. Upon completion of this course, students should understand the relevancy and connections of this history to their lives.	Year Long	Face to Face
Social Studies RR	Students will be working on many important social studies skills during the school year. We talk about being a good citizen, and what all that entails. They also are introduced to economic, civics, and history topics. We work in groups and on	Year Long	Face to Face

	individual projects to help students feel comfortable in any of those scenarios.		
6 th Grade Science	In sixth grade science, students learn about the engineering design process with a focus on the scientific method. Students focus on earth science for the remainder of the year. They learn about space, earth's history, earth's geologic processes, weather, and climate.	Year Long	Face to Face
7 th Grade Science	In seventh grade science, students continue to learn about the engineering design process with a focus on identifying and solving a problem. Throughout the year students learn about life science. They learn about cells, body systems, genetics, heredity, evolution, natural selection, and animal adaptations.	Year Long	Face to Face
8 th Grade Science	In eighth grade science, students build and design a device using the engineering design process. Physical, life, and earth science are all taught in eighth grade. Students learn about physics, earth's history, the fossil record, evolution, and natural selection.	Year Long	Face to Face
RR Science	Throughout the school year, we will be looking at many different scientific concepts and discussing them. Much of the class work in group work, which is used to help students improve upon their communication and teamwork skills. They have projects and presentations that go along with the concepts as well, and this helps them work on their public speaking and eye contact.	Year Long	Face to Face
6 th Grade ELA	In the 6th-grade ELA class, students will focus on honing their comprehension skills and critical thinking by analyzing informational and literary texts. They will also acquire research abilities and become proficient in four distinct writing styles: narrative, informative, argumentative, and literary analysis. Students will master the correct usage of pronouns, punctuation, frequently misspelled words, and various sentence structures, and they will develop speaking and listening capabilities, fostering effective communication within group settings.	Year Long	Face to Face
7 th Grade ELA	In the 7th-grade ELA class, students will enhance their comprehension skills and critical thinking through the analysis of informational and literary texts. They will develop research	Year Long	Face to Face

	abilities and develop four unique writing styles: narrative, informative, argumentative, and literary analysis. Throughout the course, students will become experts in correctly using phrases and clauses, different sentence structures, punctuation, and frequently misspelled words. Additionally, they will work on refining their speaking and listening capabilities, ensuring effective communication in group settings.		
8 th Grade ELA	In the 8th-grade ELA class, students will strengthen their comprehension skills and critical thinking by analyzing informational and literary texts. They'll also nurture their research abilities and become adept in four distinct writing styles: narrative, informative, argumentative, and literary analysis. Throughout the course, students will gain mastery in using verbals, verb moods, and verb voices while correcting inappropriate shifts in sentences. They will also focus on improving their speaking and listening skills, empowering them to communicate effectively within group settings.	Year Long	Face to Face
RR ELA	Students will be working on improving their writing skills by working on a different paragraph with focus on different areas each week. We will also be reading and listening to a novel and answering comprehension questions that go along with it. The students will also be participating in group work and projects along with the novel.	Year Long	Face to Face
Academic Studies 6	Academic studies is a remedial class for students to work on foundational skills they are lacking.	Year Long	Face to Face
Academic Studies 7	Academic studies is a remedial class for students to work on foundational skills they are lacking.	Year Long	Face to Face
Academic Studies 8	Academic studies is a remedial class for students to work on foundational skills they are lacking.	Year Long	Face to Face
Middle School Band	Our objective is to explore seven key elements of music (melody, harmony, rhythm, timbre, texture, dynamics, and form) through the building of technique, tone, music literacy, and through performance on specific concert band instruments. (flute, clarinet, saxophone, trumpet, horn, trombone, baritone, tuba, and percussion)	Year Long	Face to Face

Middle School Technology	Technology class allows students to use creativity, problem-solving, critical and flexible thinking, and collaboration with others. Computer science also provides a critical understanding of citizenship. This includes project-based learning using programming code to design apps, web and games.	Quarter	Face to Face
Middle School Art	Building off of the concepts learned in elementary classes middle school art will continue to explore the elements and principles of art as students work more independently to fully express their personal and creative visions. Elements of 3-d art and art history will also be woven into the curriculum to further tie in the arts to other academic subject matters.	Quarter	Face to Face
Middle School Gym	Our middle school physical education program helps students practice and develop skills in various activities that will improve their overall physical fitness levels. Students will be exposed to a variety of sport, strength, muscular endurance, flexibility, and plyometric drills and activities throughout the duration of the class.	Quarter	Face to Face
Middle School Spanish	This elective course broadly covers aspects of Spanish language and grammar. Students will learn about historical events, celebrations and cultural differences. This course will be taught with various textbooks, worksheets, on-line resources, videos and games.	Quarter	Face to Face
RR Life skills	In life skills, we work on many different skills to help students be successful in their lives. We go on field trips where students can practice using money, ordering something on their own, shopping in a grocery store, and interacting with other people. We also work on cooking and measurement skills, health, and budgeting.	Year Long	Face to Face

ELEMENTARY CLASSES

Class Title	Description	Duration	Delivery Method
Elementary Music	Our objective is to explore seven key elements of music (melody, harmony, rhythm, timbre, texture, dynamics, and form) through text, song, movement, improvisation, and classroom instruments.	Year Long	Face to Face
Elementary Art	Students in elementary art will be introduced to the visual arts through various projects and media that will help to teach skills such as problem solving and critical thinking. Working primarily in 2-D format students will learn about the elements and principles of art and use those as a foundation for their own personal expressions.	Year Long	Face to Face
Elementary Gym	Our physical education program focuses on development of locomotor patterns and cooperative games to improve collaboration and communication skills. In addition, students will also be exposed to a variety of calisthenics and exercise challenges to improve their overall physical fitness levels.	Year Long	Face to Face
Elementary Spanish	An elective class that helps the student become familiar with Spanish in spoken and written form. They will be building a foundation of vocabulary words through songs, writing, videos and games. Some other units may involve celebrations, geography and cultural differences of the countries where Spanish is spoken.	Year Long	Face to Face
Elementary Technology	Technology class begins with the computer basics of proper posture and keyboard skills at the early elementary level then working towards operational skills such as saving, opening, attaching files, emailing, word, spreadsheet, word processing, code basics. Foundational computer skills are introduced and practiced with cross-curricular connections made. Proper netiquette and being safe online are on-going themes at each level.	Year Long	Face to Face
Kindergarten Math	Merritt Academy follows the common core standards in kindergarten mathematics. Merritt Academy focuses on conceptual understanding of numbers, building fluency in addition and subtraction, and using problem solving skills to foster a complex understanding of whole numbers and key concepts.	Year Long	Face to Face

	All students will utilize problem solving skills and encounter early concepts in place value, shapes, numbers, concept of time, length, weight, and capacity. Students will learn how to gather and analyze data. In addition, students will identify, sort, study patterns, and relate mathematical figures to objects within the real world and/or our environment.		
Kindergarten ELA	Merritt Academy follows the common core standards in kindergarten English. Merritt Academy focuses on structured lessons that guide readiness skills with a strong emphasis on phonics, speaking and listening skills, handwriting, and literature to ensure that we are building comprehension skills, a strong vocabulary, and to promote a love for lifelong learning in both reading and writing. Students will receive structured lessons on readiness skills through a strong emphasis on phonics, speaking and listening skills, handwriting, and literature to help develop comprehension, build vocabulary, and promote interest in both reading and writing.	Year Long	Face to Face
Kindergarten Spelling	Students will be introduced to the basic concepts of spelling and simple word and letter patterns. Usually start taking spelling assessments second semester.	Year Long	Face to Face
Kindergarten Science	Merritt Academy follows the Next Generation Science Standards in kindergarten science. Merritt Academy focuses on developing observation skills and complex thinking as students learn and explore the world around them. Students will observe, gather data, analyze, and interpret information through hands-on experiments while applying the basic skills of STEM (science, technology, engineering, and math). Furthermore, students will be able to use models, tools, sketches, make observations, and develop solutions while exploring physical, life, and earth science.	Year Long	Face to Face
Kindergarten Social Studies	Merritt Academy follows the Michigan Grade Level Content Expectations for kindergarten in social studies. Merritt Academy's main focus is content that is based and designed for five- and six-year-olds and what is developmentally appropriate at their age level. Kindergarten students will learn about the social studies disciplines, history, geography, civics and government, as well as economics. Students will	Year Long	Face to Face

	engage in planned activities to learn about the past, about how the environment provides for people's needs and wants, how people get along with each other and coexist, and how people meet their economic wants.		
1 st Grade Math	The first-grade math curriculum focuses on understanding addition and subtraction, understanding how to solve word problems, and helping students become fluent in adding and subtracting numbers within 20. Students will learn different strategies to add and subtract numbers. The first-grade math curriculum also focuses on interpreting data, understanding place value of two digit and three digit numbers, and adding two 2 digit numbers within a hundred. Towards the end of the year students will focus on understanding and identifying 2 dimensional shapes and three-dimensional shapes, partitioning circles and rectangles into two and four equal shares, understanding linear measurements and length units, and students will work on telling and writing time to the hour and half hour using digital and analog clocks.		
1 st Grade ELA	The first grade ELA curriculum focuses on continuing students' literacy journey with greater confidence by combining skills and strategies systematically. As a result, students' reading stamina increases and they develop a fluid reading pace. Students continue to read, write, and discuss fiction and nonfiction texts to learn how different sources help readers construct meaning about the world. Academic conversations help students apply foundational listening and speaking skills to learn how to understand, speak, and use words to communicate. Additionally, students' writing stamina grows and their voices emerge when writing about what they are learning and their personal experiences.		
1 st Grade Spelling	The first-grade spelling curriculum focuses on using spelling patterns and spelling rules in writing words. Students will practice spelling untaught words phonetically. Students will also practice conventionally spelling frequently occurring irregular words. (Ex: the, is)	Year Long	Face to Face
1 st Grade Science	The first-grade science curriculum focuses on engaging in science learning experiences to connect their thinking, make observations, formulate new ideas, and make sense of the natural world and how it works. Students will	Year Long	Face to Face

	<p>explore the relationship between sound and vibrating materials as well as between the availability of light and the ability to see objects. Students will also observe, describe, and predict patterns of the movement of objects in the sky. They also will learn about the needs of plants/animals, basic life cycles, and that plants/animals share some but not all characteristics of their parents.</p>		
1 st Grade Social Studies	<p>The first-grade social studies curriculum focuses on chronological thinking by distinguishing among past, present and future using family and school events. Students will learn about events and people celebrated during U.S. national holidays and why we celebrate them, and they will be able to identify the months of the year/ days of the week. They will also identify important U.S. symbols and learn what they represent. Students will focus on understanding how to read maps of schools, neighborhoods, states, etc. The curriculum also focuses on diversity in families, rules in schools/ communities, the difference between goods and services, and learning fair ways to make decisions and resolve conflicts in a school community. Towards the end of the year the curriculum focuses on rights and responsibilities of members of society in schools, at home, and in the community.</p>	Year Long	Face to Face
2 nd Grade Math	<p>In the first half of the year the HMH program focuses on geometry awareness, addition and subtraction fact fluency, interpreting graphs, a foundation in place value, counting values of money, and telling time to the nearest five minutes. The second half of the year students are taught how to add and subtract three-digit numbers with regrouping, strategies to use to attack word problems, measurement skills, and partitioning shapes into equal shares.</p>	Year Long	Face to Face
2 nd Grade Social Studies	<p>The 2nd grade curriculum is aligned to Michigan's Grade Level Content Expectations for Social Studies. Students learn about important concepts through the context of the local community. Students are introduced to a social environment larger than their immediate surroundings.</p>	Year Long	Face to Face
2 nd Grade Science	<p>The 2nd grade curriculum is aligned to Michigan's Grade Level Content Expectations for Science. In 2nd grade, students use Mystery Science, an innovative, standards-aligned,</p>	Year Long	Face to Face

	hands-on curriculum that teaches children how to think like scientists. The phenomena-driven instruction helps kids to better understand and communicate about the world around them through writing, discussion, and exploration. Units covered are animal biodiversity, plant adaptations, erosion and Earth's surface, and material properties.		
2 nd Grade Spelling	The 2nd grade curriculum is aligned to the common core standards for ELA. Over the course of the year students will examine long vowel spelling patterns involving two or three letter teams. In addition, students will also work on inflected endings, irregular plural nouns, homophones, abbreviations, and proper nouns.	Year Long	Face to Face
2 nd Grade ELA	The 2nd grade curriculum is aligned to Michigan's Grade Level Content Expectations for ELA In 2nd grade, a student's use of the English language will be improved upon by having the student practice using collective nouns, irregular plural nouns, adjectives, and adverbs. Students will be asked to remember conventions dealing with capitalization, comma usage, apostrophe usage, and spelling patterns when writing. Materials included in our HMH program are the foundations for students to study topics and develop research habits, as well as practice different types of speaking and writing about different topics. Reading skills are developed and enhanced so that students are able to answer and ask questions such as who, what, where, why, and when about a story. Students will develop an understanding of how the rhythm, structure, and points of view add meaning to a story. Texts included in our HMH program are high quality and engaging, as well as appropriately rigorous and organized to support knowledge building. The materials also include questions, tasks, lessons, and practice that support students' development of reading, speaking and listening, and beginning to think critically.	Year Long	Face to Face
3 rd Grade ELA	Third grade learns the main text structures, literary elements of fiction and nonfiction, fluency, and comprehension. They also review all grammar components, writes opinion pieces, persuasive and informational writing, and letter writing.	Year Long	Face to Face

3 rd Grade Spelling	Third grade reviews all basic vowel and consonant patterns, homophones, and EBLI skills.	Year Long	Face to Face
3 rd Grade Math	Third Grade is expected to master multiplication facts, solve multi step problems, solve area and perimeter, tell time and elapsed time word problems, geometry, and beginning division.	Year Long	Face to Face
3 rd Grade Social Studies	Third grade learns about Michigan history, Native American Michigan Tribes, Michigan economics, Michigan agriculture, manufacturing, historical figures, state and federal government, and Michigan Geography.	Year Long	Face to Face
3 rd Grade Science	Third grade learns about magnets, animal and plant selection/survival, fossils, Stem Lessons, and Engineering and design processes.	Year Long	Face to Face
4 th Grade Math	4 th grade math focuses to meet the Michigan mathematics standards, with a large focus on place value, multiplication, division, fractions, and measurement by solving a variety of problems to prepare students for application in the real world. The 4 th grade study of math builds understanding through ongoing support and tasks provided through the HMH curriculum.	Year Long	Face to Face
4 th Grade ELA	Students are given opportunities to interact with a wide variety of genres of texts that focus on an overarching “essential question” for the unit. Throughout each unit, students work to identify the main idea and supporting details, figurative language, author’s purpose, and story elements. Vocabulary is targeted each week in three ways: vocabulary found in the text, generative vocabulary, and a strategy to use while reading unfamiliar words. Through mini lessons students develop grammar skills to practice and include in the writing process. Some skills included during instruction include parts of speech, phrases and sentences, and punctuation. As these skills are focused on they are then used to develop a variety of student writing pieces of different topics and writing types.	Year Long	Face to Face
4 th Grade Spelling	Each week students study a variety of words that relate to one another through spelling patterns such as: vowels, homophones, endings, final sounds, prefixes, and suffixes. Focusing on new patterns weekly, students learn how to use those patterns to help them correctly spell familiar and unfamiliar words	Year Long	Face to Face
4 th Grade Science	Students focus on the topics of how the body functions, Earth’s features, sound waves, and	Year Long	Face to Face

	energy as identified by the Michigan 4th grade science standards. These topics are investigated through research and hands-on exploration and tests to determine solutions to problems and questions being asked		
4 th Grade Social Studies	Students learn about the United States government, economies, and different impacts of Michigan's history and the world as a whole. Additionally, students work to gain an understanding of geography by looking at a variety of maps focusing on the United States and the world as a whole, while answering relevant questions about each location.	Year Long	Face to Face
5 th Grade Math	Fifth grade math focuses on meeting the Michigan mathematics standards with a large focus on, place value, multi-digit multiplication, multi-digit division, numerical expressions, operations with fractions, volume, measurements and data, graphing and patterns, and classifying shapes. Students build on previous skills to apply mathematical skills to real life experiences. The study of math in fifth grade builds understanding through ongoing support and tasks provided through the HMH curriculum and instruction.	Year Long	Face to Face
5 th Grade ELA	Fifth grade English Language Arts focuses on meeting the Michigan reading and language arts standards with a large focus on a wide variety of high-quality texts, reading and writing comprehension, multiple writing pieces and topics, fluency, language and grammar use, and multiple reading and writing skills and strategies. Students build on previous skills and knowledge to apply English Language Arts skills to real life experiences. The study of English Language Arts in fifth grade builds understanding through ongoing support and tasks provided through the HMH curriculum and instruction.	Year Long	Face to Face
5 th Grade Spelling	Fifth grade Spelling focuses on meeting the Michigan spelling standards with a large focus on a wide variety of words, blends, syllables, patterns, and homophones, and homographs. Students build on previous skills and knowledge to apply spelling skills to real life experiences. The study of spelling in fifth grade builds understanding through ongoing support and tasks provided through the HMH curriculum and instruction.	Year Long	Face to Face

5 th Grade Social Studies	Fifth grade Social Studies focuses on meeting the Michigan Social Studies standards with a large focus on American Indian life, European exploration, colonization settlement, revolution and the new nation, and public discourse, decision making, and citizen involvement. Students build on previous skills to apply Social Studies skills and knowledge to real life experiences. The study of Social Studies in fifth grade builds understanding through ongoing support and tasks provided through the HMH curriculum and instruction.	Year Long	Face to Face
5 th Grade Science	Fifth grade Science focuses on meeting the Michigan Science standards with a large focus on engineering and technology, matter, energy and matter in organisms and ecosystems, earth interactions and resources, and patterns in the sky. Students build on previous skills to apply science skills and knowledge to real life experiences. The study of science in fifth grade builds understanding through ongoing support and tasks provided through the Mystery Science and HMH curriculum and instruction.	Year Long	Face to Face

MERRITT ACADEMY VIRTUAL PROGRAM

All of the classes listed below are provided through Edgenuity.

Language Arts K A and B	This Kindergarten Language Arts course will teach students to identify and write all letters, produce letter sounds and frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core K LA standards are met in this course.	Year Long	Virtual
Language Arts 3A and B	This Third Grade Language Arts course will teach students reading comprehension skills, fluency, and strategies for a variety of texts including informational text to help them become stronger readers. Students will also master weekly spelling and vocabulary words and grammar concepts that will help them become stronger writers. Students will work through the writing process to formulate and write a variety of pieces (opinion, compare/contrast, narrative.) All Common Core Third Grade LA standards are met in this course.	Year Long	Virtual
Common Core ELA 6	This course eases students' transition to middle school with engaging, age-appropriate literary and informational reading selections. Students learn to read critically, analyze texts, and cite evidence to support ideas as they read essential parts of literary and informational texts and explore a full unit on Lewis Carroll's classic novel <i>Through the Looking Glass</i> . Vocabulary, grammar, and listening skills are sharpened through lessons that give students explicit modeling and ample practice. Students also engage in routine, responsive writing based on texts they have read. In extensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.	Year Long	Virtual

Common Core ELA 7	Students grow as readers, writers, and thinkers in this middle school course. With engaging literary and informational texts, students learn to think critically, analyze an author’s language, and cite evidence to support ideas. Students complete an in-depth study of Jack London’s classic novel <i>White Fang</i> and read excerpts from other stories, poetry, and nonfiction. Explicit modeling and ample opportunities for practice help students sharpen their vocabulary, grammar, and listening skills. Students also respond routinely to texts they have read. In extensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.	Year Long	Virtual
Common Core ELA 10	Focused on application, this sophomore English course reinforces literary analysis and twenty-first century skills with superb pieces of literature and literary nonfiction, application e-resources, and educational interactives. Each thematic unit focuses on specific literary analysis skills and allows students to apply them to a range of genres and text structures. As these units meld modeling and application, they also expand on training in media literacy, twenty-first century career skills, and the essentials of grammar and vocabulary. Under the guidance of the eWriting software, students also compose descriptive, persuasive, expository, literary analysis, research, narrative, and compare-contrast essays.	Year Long	Virtual
Common Core ELA 11	This junior-year English course invites students to delve into American literature from early American Indian voices through contemporary works. Students engage in literary analysis and inferential evaluation of great texts as the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students master comprehension and literary analysis strategies. Interwoven in the lessons across two semesters are tasks that encourage students to strengthen their oral language skills and produce creative, coherent writing. Students read a range of short but complex texts, including works by Ralph Waldo	Year Long	Virtual

	Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers		
Common Core ELA 12	This senior-level English course offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the modern period. With interactive introductions and historical contexts, this full-year course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors, including Chaucer, William Shakespeare, Queen Elizabeth I, Elizabeth Barrett Browning, and Virginia Woolf. Adding an extra dimension to the British literary experience, this course also exposes students to world literature, including works from India, Europe, China, and Spain.	Year Long	Virtual
Math K A and B	During the first semester students will learn foundational math facts. They will learn to count to 12, how to compare sizes, ordinal numbers putting items in order, what a number line is and its uses, basic measurements such as inches and feet, and how to tell time on digital and analog clocks. Students will have many opportunities to practice these new concepts by interacting with online confirmation exercises and filling out worksheets off line. A special emphasis this semester is for students to have fun with numbers, finding success with concepts such as bigger and smaller and being comfortable in an online environment. Students learn to count to twenty. They work with comparing objects using the terms tall, longer, and shorter as well as comparing two objects using the terms lighter and heavier. They will continue their exploration of basic geometric shapes such as cones and spheres. They will work with the concept of first, middle, and last. Arranging and sorting receive special emphasis this semester. Students will also work on writing numbers with 3, 4, and 5 given special attention. Students will learn the concepts of left and right. Coins are also a focus as students will count pennies, nickels and dimes. Finally, the number 7 is studied using the colors of the	Year Long	Virtual

	rainbow. Projects include making paper fingers and thumbs and creating designs with them. They will also make the numbers 1-10 out of dough.		
Math 3A and B	<p>During the first semester, students will build flexibility with numbers as they master addition and subtraction facts as well as multiplication and division facts. Students will understand relationships between addition and subtraction, multiplication and addition and multiplication and division as they learn to borrow, carry, and regroup in order to find sums and differences of two whole numbers up to 10,000. Students will also comprehend the place value of base ten numbers up to 1,000,000 in order to find patterns and make estimations. Lastly, they will implement a 4-step approach to solving problems and express numbers differently including translating them into Roman Numerals or expressing them as ordinal numbers. During the second semester, students will explore concepts of measurement including linear measurement, weight, volume, temperature, and time. They will also recognize, compare, and convert fractions. Students will write amounts of money and make change using as few coins as possible. Lastly, students will examine lines, polygons, and solid figures as they are introduced to basic concepts of geometry.</p>	Year Long	Virtual
Common Core Math 6	<p>This course begins by connecting ratio and rate to multiplication and division, allowing students to use ratio reasoning to solve a wide variety of problems. Students further apply their understanding of multiplication and division to explain the standard procedure for dividing fractions. This course builds upon previous notions of the number system to now include the entire set of rational numbers. Students begin to understand the use of variables as they write, evaluate, and simplify expressions. They use the idea of equality and properties of operations to solve one-step equations and inequalities. In statistics, students explore different graphical ways to display data. They use data displays, measures of center, and measures of variability to</p>	Year Long	Virtual

	summarize data sets. The course concludes with students reasoning about relationships among shapes to determine area, surface area, and volume.		
Common Core Math 7	<p>This course begins with an in-depth study of proportional reasoning during which students utilize concrete models such as bar diagrams and tables to increase and develop conceptual understanding of rates, ratios, proportions, and percentages. Students' number fluency and understanding of the rational number system are extended as they perform operations with signed rational numbers embedded in real-world contexts. In statistics, students develop meanings for representative samples, measures of central tendency, variation, and the ideal representation for comparisons of given data sets. Students develop an understanding of both theoretical and experimental probability. Throughout the course, students build fluency in writing expressions and equations that model real-world scenarios. They apply their understanding of inverse operations to solve multi-step equations and inequalities. Students build on their proportional reasoning to solve problems about scale drawings by relating the corresponding lengths between objects. The course concludes with a geometric analysis of angle relationships, area, and volume of both two- and three-dimensional figures.</p>	Year Long	Virtual
Common Core Geometry	<p>This course formalizes what students learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs and geometric constructions. Then students extend what they have learned to other essential triangle concepts, including similarity, right-triangle trigonometry, and the laws of sines and cosines. Moving on to other shapes, students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two-dimensional objects. Students then make important connections between geometry and algebra, including special triangles, slopes of parallel and perpendicular lines, and parabolas in</p>	Year Long	Virtual

	<p>the coordinate plane, before delving into an in-depth investigation of the geometry of circles. The course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.</p>		
Common Core Algebra II	<p>This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. The course begins with a review of linear and quadratic functions to solidify a foundation for learning these new functions. Students make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies among the operations and field properties of real numbers and those of complex numbers and algebraic expressions. Mathematical practices and habits of mind are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.</p>	Year Long	Virtual
Financial Math	<p>Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.</p>	Year Long	Virtual
Science K A and B	<p>In Kindergarten Science, students in this course will use their senses to explore their world. Students experience nature walks, gardening, and imitative games by exploring varying concepts.</p>	Year Long	Virtual

	<p>Students will explore the changes of fall through stories and observations learning about changing leaves and squirrels. Using their senses, students will observe the nature around them. Concepts like camouflage and weather conditions will also be discussed. Students will have the opportunity to grow plants, make a terrarium and observe the behavior of magnets. Students in this course will continue using their senses to explore their world. Students experience nature walks, gardening, and imitative games by exploring varying concepts. Students will explore the winter season by learning about animal tracks and the night sky. The properties of matter will also be introduced. To learn about spring, students will make leaf rubbings, grow a variety of plants and search for worms to study. The semester concludes with lessons and activities focused on bees, constellations and birds.</p>		
<p>Science 3 A and B</p>	<p>Third grade science introduces students to experimentation as they journey through the earth and its many miracles. They will begin by learning about the earth, the sun and the moon. By participating in simple experiments students will explore the water cycle, gravity, the weather and it's patterns, various types of terrain, and the role of plants in the production of oxygen and their importance to human survival. Learners will expand their knowledge through video, pictures, short readings, projects, and hands on experiments. Learners will understand that experiments require the use of instruments, observation, recording, and drawing evidence based conclusions. Grade 3 science provides students with the opportunity to expand their minds and see for themselves the way that science is a part of their everyday lives. Semester B of third grade science begins with the students writing a poem about the seasonal cycles. The learners continue with root formation, the interdependence of plants and humans, biomes of land and sea, extreme weather, rocks, vertebrates and invertebrates, as well as extinction. All these lessons are taught using video, projects, and experimentation. Semester B asks learners to look</p>	<p>Year Long</p>	<p>Virtual</p>

	a bit deeper into things they encounter such as the ocean and weather.		
MI-Grade 6 Physical Science	This full-year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses. Hands-on wet lab options are also available.	Year Long	Virtual
MI-Grade 7 Life Science	Examining a broad spectrum of biological sciences, Life Science is a full-year course for middle school students that builds on basic principles of scientific inquiry and translates those skills to more complex, overarching biological themes. The course includes units that help students understand the definitions, forms, and classifications of living organisms and learn to analyze the diversity of each unique group of living organisms. Other units introduce students to the structures and functions of cells, cell theory, and cell reproduction. These larger themes are then applied to other topics, such as genetics, Darwinian theory, and human biology and health. An introduction of ecology draws all of these concepts together to examine the interrelationships that help to maintain life on Earth.	Year Long	Virtual
Physical Science	This full-year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the	Year Long	Virtual

	<p>properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses. Hands-on wet lab options are also available.</p>		
Physics	<p>This full-year course acquaints students with topics in classical and modern physics. The course emphasizes conceptual understanding of basic physics principles, including Newtonian mechanics, energy, thermodynamics, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students solve mathematical problems, reason abstractly, and learn to think critically about the physical world. The course also includes interactive virtual labs and hands-on lab options, in which students ask questions and create hypotheses.</p>	Year Long	Virtual
Social Studies K A and B	<p>This course introduces students to their place in the community and the responsibilities of being a member of society. Great figures of U.S. history such as Pocahontas, George Washington and Abraham Lincoln are a focus of learning in this semester. Students will also learn about everyday heroes, the responsibilities of pet ownership, the importance of rules, table manners, and eating well. A skill that students will practice throughout the semester is retelling stories. Students may do this by recording audio, retelling the stories orally, or writing their observations. They will learn how to use details and basics of narratives. Projects will help students think about what pets need and defining emotions. In the second semester students are introduced to map reading skills. They will be taught to read maps of the U.S. and the world. From learning about location to how water is represented to floor plans, students are introduced to map skills that will last a lifetime. Students will also learn about symbols of the U.S. such as the American flag and the eagle. From there students learn about holidays with a focus on Thanksgiving. Another focus is</p>	Year Long	Virtual

	<p>on currency. They will be introduced to what money is, how money can be spent, the power of buying locally, and the difference between wants and needs. Projects will include a piece on distinguishing facts from fiction, buying locally, and focusing on the differences between needs and wants.</p>		
<p>Social Studies 3A and B</p>	<p>In third grade, social studies students will begin to explore the fundamentals of social studies including geography, civics, and economics. Learners will begin by looking at the beginning of civilization and examining the ancient Hebrew civilization, the Phoenicians, and the Kush tribe of ancient Africa. They will then move on to examining the Native American tribes of the Cherokee, Sioux, and Hopi. Students will also look at the first explorers of the Americas and learn about the beginning of the United States. In the first semester students will learn important geographical factors which have impacted ancient civilizations, Native American tribes and the development of the United States. Students will increase their skills by creating maps and looking at the landscapes. They will take a close look at their own personal heritage by mapping their ancestry. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos. The second semester begins with introducing learners to economics and the role that money plays in every civilization. Students learn the difference between natural, human, and capital resources. They also examine the production of goods, trade, specialization, and interdependence, and come to understand the importance that each individual play in a society's economy. Learners are introduced to Civics by discussing the governmental structure of the Ancient Hebrews and Phoenicians. The purpose and importance of laws and how they are enacted as well as the establishment of government are shown through stories of the Ancient Phoenicians and Native Americans. The course ends by discussing the</p>	<p>Year Long</p>	<p>Virtual</p>

	purpose and nature of government as it relates to the United States.		
MI-Eastern Hemisphere Studies	History and Geography, History and Geography Skills, Concepts of Culture, Concepts of Global Society, Concepts of Global Economics, Physical and Political Geography of Africa, Regional Studies, Physical and Political Geography of the Middle East, The Middle East, Physical and Political Geography of South and Southeast Asia, South and Southeast Asia, Physical and Political Geography of Central and East Asia, Central and East Asia, Geography of Australia and Oceania, Physical and Political Geography of Europe, Europe, The Early History of Africa and Asia, The Middle East, India and South Asia, Central and East Asia, Ancient Greece, Ancient Rome, The Development of Modern Nations, and Modern Issues.	Year Long	Virtual
MS World Cultures and Geography	Designed to introduce students to the study of geography, this course helps students master important concepts in physical and human geography. Comprehensive and organized by region, this two-semester middle school course helps students understand the Earth's physical and human diversity. Students analyze population and settlement patterns and evaluate the ways that human activities modify the physical environment. While studying humans around the world, students compare development, standards of living, systems of government, and economic factors across the globe. In addition, students gain a rich understanding of global cultures and the historical factors that have shaped the world around them. All units in the course are parallel and include studies in physical and human geography, ancient cultures, regional studies, and modern issues.	Year Long	Virtual
MI-Government	This semester-long course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of	Semester	Virtual

	<p>American government. After a rigorous review of the Constitution and its amendments, students investigate the development and extension of civil rights and liberties. Lessons also introduce influential Supreme Court decisions to demonstrate the impact and importance of constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process and culminates in an examination of public policy and the roles of citizens and organizations in promoting policy changes. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions. Students also sharpen their writing skills in shorter tasks and assignments and practice outlining and drafting skills by writing full informative and argumentative essays World History.</p>		
MI- Economics	<p>This course invites students to broaden their understanding of how economic concepts apply to their everyday lives—including microeconomic and macroeconomic theory and the characteristics of mixed-market economies, the role of government in a free- enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical-thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data displays and write routinely and responsively in tasks and assignments that are based on scenarios, texts, activities, and examples. In more extensive, process-based writing lessons, students write full-length essays in informative and argumentative formats.</p>	Semester	Virtual
MI-World History	<p>This yearlong course examines the major events and turning points of world history from the Enlightenment to the present. Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the Americas, and then explore the economic, political, and social revolutions that have</p>	Year Long	Virtual

	transformed human history. This rigorous study of modern history examines recurring themes, such as social history, democratic government, and the relationship between history and the arts, allowing students to draw connections between the past and the present, across cultures, and among multiple perspectives. Students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.		
Modern World History	This yearlong course examines the major events and turning Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the Americas, and then explore the economic, political, and social revolutions that have transformed human history. This rigorous study of modern history examines recurring themes, such as social history, democratic government, and the relationship between history and the arts, allowing students to draw connections between the past and the present, across cultures, and among multiple perspectives. Students use a variety of primary and secondary sources, including documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining drafting skills by writing full informative and argumentative essays.	Year Long	Virtual
Arts and Crafts K	This course provides a foundation for children’s inherent artistic imagination and creativity by sharing the basics of art and making art. Students are introduced to lines, circles, recognizing and using shapes, creating a collage and concepts such as symmetry. Young artists will also explore a variety of media such as pastels, watercolors, crayons, tempera, and pencil drawing. An emphasis on this course is on creating works of	Year Long	Virtual

	<p>art. In this semester students will work with clay, draw with pastels, make fingerprint flowers, draw barns and animals using shapes and recognizing lines using the student's name. Emphasis in the second semester students will be placed on applying what the students have learned to make more detailed works of art. Among the projects this semester students will be creating a bird feeder, make pig puppets, craft paper flowers, make potpourri, craft a heart collage, construct a wind chime, and press flowers.</p>		
Arts and Crafts 3		Year Long	Virtual
Physical Education K	<p>Elementary PE K helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.</p> <p>Elementary PE K helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.</p>	Year Long	Virtual

Physical Education 3	<p>Elementary PE 3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.</p> <p>Elementary PE 3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.</p>	Year Long	Virtual
Health K	<p>Elementary Health K helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork. Elementary Health K helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.</p>	Year Long	Virtual
Health 3	<p>Elementary Health 2 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety,</p>	Year Long	Virtual

	<p>healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation. Elementary Health 2 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation.</p>		
<p>Middle School 2D Studio Art</p>	<p>Journey inside the art studio and learn to bring your 2D art visions to life. Whatever medium you prefer, painting or drawing, this course will help you hone your 2D art skills. Learn the elements and principles needed to logistically create art; explore your artistic inspirations; view art from different ages and cultures; gain insight about the art of critiquing.</p>	<p>Semester</p>	<p>Virtual</p>
<p>Middle School Coding</p>	<p>In this course, students will learn all about the technology they use in their day-to-day life as well as explore how the internet functions. The course includes an introduction to the basics of computer science as students discover how to create and build websites using HTML and CSS. They will also become familiar with programming languages like JavaScript and Python. Students will leave the course with a portfolio of work that will showcase their skills.</p>	<p>Semester</p>	<p>Virtual</p>
<p>Middle School Exploring Music</p>	<p>Learn about how we hear music, its history and culture, and how it affects our lives. Explore the elements of music, such as rhythm, pitch, and harmony, while discovering more about musical genres, singing and your voice, instruments, and musical composition. Tune up your understanding and appreciation for all things musical.</p>	<p>Semester</p>	<p>Virtual</p>

Middle School Spanish 1	Middle school students begin their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.	Semester	Virtual
Middle School Spanish 2	Students in middle school continue their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas	Semester	Virtual
HS Spanish 1	Students begin their introduction to high school Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas	Year Long	Virtual
Intro to Business	In this two-semester introductory course, students learn the principles of business using real-world examples—learning what it takes to plan and launch a product or service in today’s fast-paced business environment. This course covers an introduction to economics, costs and profit, and	Year Long	Virtual

	different business types. Students are introduced to techniques for managing money, personally and as business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.		
Life Skills	This course allowed students to explore their personality type and interests, as well as refine important skills that will benefit them throughout their lives, including personal nutrition and fitness skills, time and stress management, communication and healthy relationships, goal setting, study skills, leadership and service, environmental and consumer health, and personal finances. In addition, students explore possible colleges and careers that match their needs, interests, and talents.	Semester	Virtual
Creative Writing	For many hundreds of years, literature has been one of the most important human art forms. It allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of material reality. Through creative writing we can come to understand ourselves and our world a little better. This course provides students with a solid grounding in the writing process, from finding inspiration to building a basic story to using complicated literary techniques and creating strange hybrid forms of poetic prose and poetry. By the end of this course students will learn how to discover their creative thoughts and turn those ideas into fully realized pieces of creative writing.	Semester	Virtual
Forensics	Using science to solve a mystery is a semester long high school course that overviews a modern-day forensic science careers at work using science concepts to collect and analyze evidence and link evidence to the crime and suspects in order to present admissible evidence in courts of law. Projects in this class include simulated crime-scene investigation, actual DNA separation, development of a cybersecurity plan, and the identification of specific forensic skills used during the course of a very large murder case. The focus of this course is to assist students in making career choices. The overview of careers includes	Semester	Virtual

	<p>job descriptions and availability, educational and training requirements, licensing and certification, and typical annual salaries. Students who take this will become equipped to make more informed career choices regarding the forensic, computer science and medical science fields. At the same time, students will survey the history and scope of present-day forensic science work.</p>		
Legal Services	<p>Legal services is a high school semester-long course that provides students with an overview of the system of laws in the United States, the practice areas, and career options in the field. Students learn about how the legal system operates, the consequences to those who commit crimes, and how disputes are settled, as well as how criminal civil cases reach court and are resolved. Students learn about the courtroom and the basics of a typical court case. Students explore constitutional rights and legal safeguards, types of evidence, as well as how technology has changed the practice of law. They also learn about legal education and various careers in the legal field.</p>	Semester	Virtual
Intro to Art	<p>Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their every lives. Presented in an engaging format, this one-semester course provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.</p>	Semester	Virtual
Art History	<p>Introducing art within historical, social, geographic political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this one-semester course cover topics including early medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth-century art in Europe; sixteenth-century art in Italy; the master artists;</p>	Semester	Virtual

	High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; eighteenth-and nineteenth-century art in Europe and the Americas; modern art in Europe and the Americas.		
Lifetime Fitness	Is a one-semester physical education course.	Semester	Virtual
Healthy Living	Focuses exclusively on personal health but in a more conservative and traditional treatment than Contemporary Health.	Semester	Virtual
Computer Science	This one-semester course introduces students to the basics of computer science through a series of Python® programming projects that encourage creativity and experimentation. Students create a diverse portfolio of projects as they learn command functions, values and variables, graphical user interface, modular and object-oriented programming, and events and event-driven processes. Students also learn loops, debugging techniques, software- development processes, arrays and sets, generators and namespaces, packages and libraries, randomness, file handling, and how to program simple games. Students explore careers in programming, including profiles a wide variety of programming professionals.	Semester	Virtual