

LAKESHORE VIRTUAL SCHOOL



COURSE SELECTION GUIDE

2020-2021

GIBRALTAR PUBLIC SCHOOLS
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MISSION STATEMENT

The mission of the Gibraltar Schools—in partnership with students, parents, and the community—is to develop each student’s skills, competencies, and understanding necessary to think independently and make sound decisions, to realize self-worth, to adapt to the challenges of the future, and to foster the process of lifelong learning. Each student will develop and possess the skills necessary to be a functioning and contributing member of our society.

Graduation Requirements

High School Graduation Requirements

Students must complete the Michigan Merit Curriculum, the CPR certification course, and the state EDP requirements to graduate from LVS. The Michigan Merit Curriculum is 18 specific credits (36 classes):

COURSES	CREDIT REQUIREMENTS
MATHEMATICS	4
Algebra 1	1
Geometry	1
Algebra II/Trigonometry	1
Math or Math Related Course	1
ENGLISH LANGUAGE ARTS	4
English 9	1
English 10	1
English 11	1
English 12	1
SCIENCE	3
Biology	1
Physical Science	1
Additional Science Credit	1
SOCIAL STUDIES	3
World History and Geography	1
U.S. History and Geography	1
Civics	0.5
Economics	0.5
PHYSICAL EDUCATION	1
Physical Education	0.5
Health	0.5
VISUAL/PERFORMING/APPLIED ART	1
ONLINE LEARNING EXPERIENCE	
FOREIGN LANGUAGE	2 (or 1 year plus VPAA)

Flexible Learning Options

In addition to virtual courses, students may earn credit through the following:

Academic Consortium

The Downriver Career Technical Consortium has established the Academic Consortium for students in the nine DCTC school districts. The purpose of the Academic Consortium is to provide expanded opportunities in high-level courses such as Advanced Placement, Foreign Language, Fine Arts, and unique class offerings. Juniors and seniors from the nine high schools are eligible to attend classes with the Academic Consortium.

Dual Enrollment Credit

The Postsecondary Enrollment Options Act, 1996 PA160 (MCL 388.511- 388.524), as amended, and the Career and Technical Preparation Act, 2000 PA 258 (MCL 388.1901-388.1913), encourage and enable qualified pupils to enroll in courses or programs in eligible postsecondary institutions (state universities, community colleges, or independent nonprofit-degree-granting colleges or 18 universities located within Michigan). Eligibility of pupils, courses, and institutions are defined under Section 21b of the State School Aid Act, Postsecondary Enrollment Options Act, and the Career and Technical Preparation Act. Both the district and the pupil must adhere to the following three basic requirements for any postsecondary dual enrollment consideration.

1. The LVS Campus will provide students upon request with information about the Postsecondary Enrollment Options Act and the Career and Technical Preparation Act. This general information about college equivalent courses includes advanced placement, virtual university, and postsecondary options.
2. A dually enrolled pupil must be enrolled and attending at least one high school course at a public school district while concurrently enrolled and attending a public or private Michigan degree-granting postsecondary institution. Such a pupil may be counted in membership by the enrolling local district.
3. A pupil shall not participate in intercollegiate athletics at the postsecondary institution while he or she is enrolled under this act. A pupil who violates this subsection forfeits his or her eligibility under this act.
*****These figures may be adjusted when the state aid bill is approved for each school year.**
Upon approval by the student, parent, school counselor, school principal and district business office, a letter to the Post-secondary Institution shall be given to the student authorizing his/her enrollment under dual enrollment guidelines.

Test-Out Provision

Students have the opportunity to test out of first attempted classes offered at Lakeshore Virtual School. Students will be required to take a final exam for said class and all other requirements set forth by the school and district for the class by appointment on campus. Students must earn a minimum of C+ (77%) on the exam and other required components to earn credit for the class. A "CR" grade will be listed on the student's transcript indicating successful testing out of a particular course. Students should contact their mentor or the building counselor to make arrangements for this opportunity.

Personal Curriculum

A Personal Curriculum (PC) is an option initiated by the parent/guardian or an emancipated student that modifies certain requirements of the Michigan Merit Curriculum (MMC) and allows a district to award a regular high school diploma to students who successfully complete their PC. A personal curriculum must include as many of the content expectations of the MMC as practicable. The legislative intent of the PC is to increase the rigor and relevance of the educational experience. While the PC option is available to any student, the legislative intent is that districts will make curriculum modifications only when it is clear that a modification is necessary for the student to achieve graduation requirements. For example, students in alternative education settings, at-risk students, and students with a qualifying disability under Section 504 of the Rehabilitation Act, may request and be granted a PC modification, only if there is documented evidence that the student may not meet the graduation requirements. For more information on PCs, visit the Michigan Department of Education website and make an appointment with your student's counselor.

Partnership Electives

The Partnership is a resource for homeschool and virtual school families looking for an innovative way to support the education of their child. All partnership electives are virtual courses with optional weekly application lessons instructed by experts in the community. All students in grades K-12 (full-time or part-time) are welcome to enroll with the partnership. Part-time homeschool students in grades K-8 may take up to four partnership electives. All virtual school students and part-time homeschool students in grades 9-12 may take up to two partnership electives. High School partnership classes do not count towards the 18 credit requirement needed for a high school diploma. For additional information, please visit our webpage at <https://www.gibdist.net/lakeshore-virtual/partnership> or email the directors at partnership@gibdist.net.

Career Pathways

According to the United States Bureau of Labor Statistics, there are more than 12,000 career options to consider. By dividing the thousands of different occupations into six groups, it becomes easier for students to navigate, plan, and make choices about their future. The occupations grouped in each Career Pathway share similar characteristics. The employment requirements for the careers within each pathway call for many common interests, strengths, and competencies. Within each pathway are careers that encompass the entire spectrum of educational training requirements, providing opportunities for all students at all ability levels.

By identifying a pathway or pathways of interest, students can begin to relate school subjects to future goals and career interests. Exploring the pathways to find those that align with personal interest, skills, and abilities can assist in discovering occupations that may be the most rewarding in the future. In addition, it can help students to create their own educational development plan and choose which courses may be most beneficial and relevant to them.

Arts and Communication This is the pathway of creativity. Careers in this pathway are related to humanities and performing arts, visual, literacy, and media arts. If you are innovative, imaginative, or enjoy communicating your ideas through writing, music, and art, this may be the right pathway for you.

Business, Management, Marketing and Technology This is the pathway of organization and leadership. Careers in this pathway are related to the business environment and include sales, marketing, finance, accounting, management, and operating computers. If you enjoy working with numbers, finances, computers, or carrying ideas from planning to development, this may be the pathway for you.

Engineering/Manufacturing and Industrial Technology This is the pathway of implementation. Careers in this pathway are related to the design, development, installation, and maintenance of technology and physical systems. If you are mechanically inclined, curious about how things work, like reading diagrams, or enjoy working with your hands, this may be the pathway for you.

Health Science This is the pathway of physical wellness. Careers in this pathway involve laboratory science, research, preventive care, or treatment of people and animals. If you enjoy caring for people or animals that may be sick or if you enjoy learning about health, disease, medicine, or how the body works, then this may be the pathway for you.

Human Services This is a pathway of service. Careers in this pathway involve protecting, teaching, counseling, or advising people. If you enjoy public or personal service in areas such as education, government, law, law enforcement, leisure, and recreation, military, religion, childcare, or social services, this may be the pathway for you.

Natural Resources and Agriscience This is the pathway of environmental maintenance. Careers in this pathway are related to agriculture, environment, and the natural resources of our planet. If you enjoy being outdoors and are interested in nature and protecting the environment, this may be the pathway for you.

ADMISSION TO UNIVERSITIES

Since Universities and/or Colleges have different requirements, the Counseling Department strongly suggests that all students research every college or university that they may want to eventually attend. Post-secondary institutions may require different high school prerequisites. We encourage all students to research all possible options for their postsecondary plan so that they are able to make proper college preparatory decisions and establish long-term goals.

NCAA Requirements

The NCAA, or National Collegiate Athletic Association, was established in 1906 and serves as the athletics governing body for more than 1,280 colleges, universities, conferences, and organizations. The NCAA is committed to the student-athlete and to governing competition in a fair, safe, inclusive, and sportsmanlike manner. The NCAA Initial-Eligibility Clearinghouse is an organization that works with the NCAA to determine a student's eligibility for athletics participation in his or her first year of college enrollment. Students who want to participate in college sports during their first year of enrollment in college must register with the clearinghouse. The clearinghouse staff follows NCAA bylaws and regulations in analyzing and processing a student's high school academic records, ACT or SAT scores, and key information about amateurism participation, to determine the student's initial eligibility. To learn more about the clearinghouse, go to: <https://www.ncaaclearinghouse.net>. If you have questions about NCAA eligibility, please call the NCAA Initial-Eligibility Clearinghouse toll-free at 877/262-1492. You may also call the NCAA at 317/917-6222.

Four Year Calendar: Preparing for Post-Secondary Options

Freshman Year

- Maintain college preparatory schedule (Math, Science, English, Social Studies and World Language) and good grades
- Research available for career and college materials in Xello, the Counseling Office, and online
- Visit college campuses if opportunity presents itself
- Consider volunteer opportunities
- Take state assessment test

Sophomore Year

- Maintain college preparatory schedule and good grades
- Continue to research and visit colleges as time permits
- Take state assessment test
- Continue to take advantage of opportunities to volunteer
- Stay involved in school activities and other community involvements

Junior Year

- Maintain college preparatory schedule and good grades
- Attend College Nights
- Attend meetings with college representatives who visit CHS/LVS
- Attend test preparation workshops, if desired
- Take the PSAT in October to qualify for National Merit Scholarship
- Take the state assessment test
- Re-take the college entrance exam in April or June if better score is desired
- Continue research of career/college options
- Visit college campuses during spring or summer
- Create a resume/list of activities in Xello

Senior Year

FALL

- Parchment registration for online transcript submissions.
- Register for and take the fall ACT or SAT if unsatisfied with previous score
- Attend College Nights at various locations
- Attending meetings with college representatives who visit CHS/LVS
- Apply online to the college of your choice or sign up for on-site admissions
- Research scholarship opportunities; apply before deadlines
- Ask teachers for letters of recommendation if college applications request them
- Schedule visits to colleges; many colleges have special fall visiting days for high school students
- File the FAFSA online between October 1 and March 1 at www.fafsa.gov

WINTER

- Attend financial aid workshops
- Submit completed financial aid forms to the appropriate colleges/agencies
- Continue to research scholarship opportunities and apply before deadlines
- Inform counselor if college has requested your transcript

SPRING

- Apply for local scholarships in early March; forms available from counselor
- Decide which college to attend; pay a deposit if you have not already done so
- Notify any colleges you do not plan to attend

CURRICULUM PROVIDERS

LE- Lincoln Empowered (K-5)

We feel passionately that all students deserve access to the most powerful, personalized curriculum possible to ensure true content mastery. No matter the grade level, all Lincoln Learning Solutions content is created by education and industry professionals according to the same research-based principles and learning design. This innovative curriculum provides a predictable learning routine that seamlessly blends content and the best-in-class technology to create a pathway for students to own their learning.

Each lesson's variety of digital learning objects (e.g., instructional texts, videos, games, interactive simulations, assessments) gives students multiple ways to engage with, understand, and demonstrate mastery of the content. By breaking national and state standards into key learning objectives and presenting students with concrete learning objects, we help them to master standards in a manageable fashion.

OW- Odysseyware (3-12)

Odysseyware is an innovative, multimedia-enriched online curriculum company. Odysseyware personalized instructional tools provide 21st-century educational solutions by offering courses in core subjects along with enriching electives, CTE, AP and professional development all aligned to national and state standards. Odysseyware takes the question of where students can learn out of the equation. With our fully HTML5 course library, students can learn anywhere, anytime, on any device, via our powerful Learning Management System delivering hundreds of multimedia-based courses. They also have access to powerful supports including translations in 23 languages, vocabulary and reference libraries, text-to-speech, and immediate coaching for writing skills via the Writer Tool.

ED- Edgenuity (6-12)

As a company of educators, we know teachers and administrators work tirelessly to meet the needs of all their students. That's why we've made it our mission to provide schools with the tools and resources they need to leverage technology in ways that improve student outcomes. We've seen firsthand that all districts, schools, and students have unique needs that can't be met with a one-size-fits-all solution.

With that in mind, we dedicate our efforts to creating powerful, flexible products and solutions that give educators more ways to manage and customize their program, and students the personalization and engagement they need to succeed.

Schoology (K-12)

This is a learning management system that is used to provide information and communication to families about our school and for our partnership elective courses. All partnership courses are created on this platform. These courses are created by the partnership teachers of record in collaboration with the community experts of the application opportunities. They have optional face-to-face learning opportunities in the community that support the virtual content of the courses.

COURSE SELECTION INDEX

DEPARTMENT

PAGES

GRADES K - 5

<u>English Language Arts</u>	10 - 12
<u>Social Studies</u>	13 - 14
<u>Science</u>	15 - 16
<u>Mathematics</u>	17 - 20
<u>Partnership Electives</u>	18 - 25

GRADES 6 - 8

<u>English Language Arts</u>	28
<u>Social Studies</u>	29
<u>Science</u>	30
<u>Mathematics</u>	31
<u>Foreign Language</u>	32 - 34
<u>Partnership Electives</u>	35 - 41

GRADES 9 - 12

<u>English Language Arts</u>	42 - 45
<u>Social Studies</u>	46 - 50
<u>Science</u>	51 - 54
<u>Mathematics</u>	55 - 58
<u>Foreign Language</u>	59 - 62
<u>Physical Education</u>	63
<u>Visual and Performing Applied Arts</u>	64 - 68
<u>Career Technical Education</u>	69 - 82
<u>Partnership Electives</u>	83 - 84

GRADES K-5 COURSE OFFERINGS

English Language Arts

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVSELELAK	English K	LE	R	K	Full Year
LVSELELA1	English 1	LE	R	1	Full Year
LVSELELA2	English 2	LE	R	2	Full Year
LVSELELA3	English 3	LE	R	3	Full Year
LVSELELA4	English 4	LE	R	4	Full Year
LVSELELA5	English 5	LE	R	5	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 LE - Lincoln Empowered

English K (LE)	Required	Grade K Full Year
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This course places a heavy emphasis on the alphabet, as students learn letter names and both uppercase and lowercase letters. Students also learn letter sounds and how to articulate and blend those sounds. English Language Arts K focuses on building reading skills through the use of high-frequency sight words—common prepositions, nouns, verbs, and adjectives. Through grade-level appropriate readings, students explore story elements and the ways in which pictures relate to text. They also learn to summarize a text and to compare and contrast characters, events, and ideas within texts. This course teaches foundational grammar and writing skills, including proper capitalization, spacing between words, and sentence punctuation. Students learn to print words and write complete sentences.

English 1 (LE)	Required	Grade 1 Full Year
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English Language Arts 1 focuses on developing reading, writing, spelling, speaking, and listening skills. In this course, students begin to understand that spoken and written language can be broken into phonemes. They use rhyming, blending, and segmenting to develop the foundation needed to become an emergent reader. Students read prose, poetry, and informational texts for comprehension. They learn to interpret the ways in which stories and poems appeal to the senses and to identify the main topic and key ideas within texts. Students increase their vocabulary by learning to use morphemic and contextual analysis to determine the meaning of unknown words. Students learn to spell new words using various spelling rules. In English Language Arts 1, students hone their writing skills by practicing grammar rules for noun usage, personal possessive and indefinite pronouns, verb tenses, capitalization, commas, and end punctuation. In doing so, they learn to produce and expand sentences and to write opinion pieces, informational pieces, and narratives.

English Language Arts

English 2 (LE)	Required	Grade 2 Full Year
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In this course, students continue to develop their phonemic awareness by learning to recognize word families, word origins, and irregularly spelled words. They also begin to use linking words to connect opinions and reasons and time-order words to signal the order of events. While reading, students work to distinguish fact from opinion, decipher an author's reason, and identify the main topic of a multi-paragraph text. Students sample multiple genres of literature, including fiction, nonfiction, poetry, folktales, and fables, while exploring story elements such as plot, setting, characterization, and the author's point of view. They also learn to distinguish between the main idea and the theme of a story. Students develop their writing skills by composing narrative, persuasive, and informative essays, as well as creative writing pieces. Additionally, they practice their research skills by finding facts in multiple sources and using them to produce a science report.

English 3 (LE)	Required	Grade 3 Full Year
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In this course, students read more complex texts and write to express themselves with greater sophistication. They practice reading at a natural pace while using intonation and expression appropriately. While reading, they interpret texts in more complex ways, by identifying cause and effect, determining tone and mood, and distinguishing shades of meaning in figurative language. This course introduces students to new genres, including opinion pieces, biographies, and blogs, while they continue to work with narratives, fiction, and informational texts. An emphasis is placed on grammar, punctuation, and spelling as students explore the functions of nouns, pronouns, verbs, adjectives, and adverbs; categorize nouns; explain the differences between various verb tenses; write simple, complex, and compound sentences; and use capitalization, commas, and quotation marks correctly. They learn the spelling of words with various prefixes and suffixes; regular and irregular nouns, verbs, and adjectives; and contractions, compound words, homophones, and words with various vowel sounds. Students develop their speaking and listening skills by planning, writing, and delivering an oral presentation and by creating visual aids to accompany the presentation.

English 4 (LE)	Required	Grade 4 Full Year
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Students create a plan for writing, revise and edit their work, and improve their writing using feedback from an adult. Through their writing, they continue to master the conventions of English grammar, including quotations, relative pronouns, progressive verb tenses, modal auxiliaries, prepositional phrases, antecedents, coordinating conjunctions, compound sentences, capitalization, and punctuation, while avoiding sentence fragments and run-on sentences. They learn to spell words with a wide variety of prefixes and suffixes in addition to homophones, possessives, compound words, and words with silent letters. While reading, students identify, describe, and analyze story elements and compare and contrast these elements in stories, myths, and literature from various cultures. Students further develop their research skills by conducting short research projects, taking notes during research, and creating bibliographies. They develop more concrete speaking skills by creating and delivering presentations on various topics.

English Language Arts

English 5 (LE)	Required	Grade 5 Full Year
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They identify the author’s purpose in multiple forms of writing, such as descriptive, expository, technical, persuasive, and narrative passages. Through these texts, they learn to make inferences and analyze multiple accounts of the same event. They also identify, interpret, and compare similes, metaphors, and idioms used in writing and learn to draw a plot diagram and to identify common themes in literature. This year, students write a five-paragraph essay and an effective thesis statement. They follow the writing process to develop essays, create outlines to organize their ideas, and revise and improve their original draft. Students also write a persuasive letter, a speech, and a script. This course teaches and reinforces spelling rules, such as *i* before *e*, while also focusing on the spelling of words ending in a silent *e*, commonly misspelled words, and words with multiple syllables. Students sharpen their research skills by learning to use notecards for research, gathering information about the same topic from multiple sources, and understanding plagiarism and the importance of writing in their own words. They also practice citing sources by creating a bibliography.

Social Studies

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVSELSSIK	Social Studies K	LE	R	K	Full Year
LVSELSSI1	Social Studies 1	LE	R	1	Full Year
LVSELSSI2	Social Studies 2	LE	R	2	Full Year
LVSELSSI3	Social Studies 3	LE	R	3	Full Year
LVSELSSI4	Social Studies 4	LE	R	4	Full Year
LVSELSSI5	Social Studies 5	LE	R	5	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 LE - Lincoln Empowered

Social Studies K (LE)	Required	Grade K Full Year
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Students learn the importance of rules and regulations in guiding community behavior and the role of government and other institutions. They explore the concept of good citizenship and values such as respect, democracy, cooperation, and equality in the context of the family and the local community. This course lays the foundation for understanding the past by teaching the importance of a sequence of events, introducing historical figures, and developing students' skill in distinguishing fact and opinion. Finally, students learn about the world around them, including how geography influences society, how maps represent places, and how communities rely on trade in goods and services.

Social Studies 1 (LE)	Required	Grade 1 Full Year
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Social Studies 1 leads students beyond their local community to consider their place in their state, the nation, and the world. They explore the function and characteristics of government in the United States, including the role of rules and laws and the rights and responsibilities of citizens. Students also learn how to ask questions and gather information to understand history. The course focuses on developing students' knowledge of the interplay between the physical world and human societies, as they learn basic geography skills, such as map reading, and examine the impact of the environment on how and where people live and how regional variations drive trade in both goods and services.

Social Studies 2 (LE)	Required	Grade 2 Full Year
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They deepen their understanding of the U.S. government by explaining the role of the three branches of government and of the U.S. Constitution. Students extend their knowledge of U.S. history to recognize the impact of important figures and movements of the past, and they begin to think like historians by identifying reliable sources, crafting compelling questions, distinguishing fact and opinion, and using timelines to structure a series of events. The course highlights the role of international relations, including both alliances and international trade, as well as the importance of geography and regional variations in resources and production. Finally, students learn core concepts of economics, including supply and demand, scarcity, and cost and benefits, as well as the functions of banks, and relate these concepts to individuals and communities.

Social Studies

Social Studies 3 (LE)	Required	Grade 3 Full Year
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Students are encouraged to think about what it means to be productive, responsible citizens of both the nation and their own local communities. To support their learning about U.S. history and differing cultures and perspectives, students develop and research compelling questions on historical topics, work with credible sources, and distinguish between fact and opinion. Additionally, they learn to evaluate the validity of sources, especially websites. Students develop presentation skills that include constructing arguments to support their opinions and using visual aids to add interest to oral reports. They also expand their map-reading skills and learn the fundamentals of financial literacy. In addition to studying the United States, students examine the geography, culture, history, government, and economy of three other world communities: Canada, Mexico, and India.

Social Studies 4 (LE)	Required	Grade 4 Full Year
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Students assess and use a wide variety of primary and secondary sources to research compelling questions and present interpretations and arguments in both written and oral form, supporting their positions with details drawn from those reliable sources. They learn the rights and responsibilities of citizens and how people and groups can work together to accomplish common goals. Students also explore how regional differences in physical environment and culture affect how people live and work. This course fosters a command of the concepts and tools of geography, such as latitude, longitude, maps of various kinds, and scales. Students also gain an understanding of core aspects of economics, including resources, production, consumption, and international trade.

Social Studies 5 (LE)	Required	Grade 5 Full Year
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Students leverage research skills to analyze historical events and documents, and they present their findings using arguments based on reliable sources with supporting facts. They refine their ability to distinguish fact from opinion in the context of historical investigation. Students also broaden their understanding of government by recognizing how the system of checks and balances works at both national and state levels, and they identify and interpret important songs and symbols of the United States. Civic responsibility is woven throughout the curriculum, and students recognize the value of public service and the traits of good leaders. Social Studies 5 also explores the themes, tools, and techniques of geography. Students learn how human interaction with the environment has caused change, both beneficial and detrimental, in the past and in the present. Finally, they learn how the U.S. economy functions, including the role of government and multinational organizations in domestic and international trade.

Science

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVSELSCIK	Science K	LE	R	K	Full Year
LVSELSCI1	Science 1	LE	R	1	Full Year
LVSELSCI2	Science 2	LE	R	2	Full Year
LVSELSCI3	Science 3	LE	R	3	Full Year
LVSELSCI4	Science 4	LE	R	4	Full Year
LVSELSCI5	Science 5	LE	R	5	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 LE - Lincoln Empowered

Science K (LE)	Required	Grade K Full Year
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In this course, students learn to formulate questions, to predict, and to investigate. They use basic scientific tools, such as a magnifying glass, a ruler, and a thermometer, to make observations and draw on those observations to communicate their findings. They learn to use their five senses as observational tools as well. They deploy their observational skills to describe animals and plants, their basic needs for survival, and their environments. Students discover the effect of sunlight on Earth's surfaces and the difference between sun and shade. Students explore weather types, weather patterns, and seasonal changes. They also examine the characteristics of force, including the difference between a push and a pull.

Science 1 (LE)	Required	Grade 1 Full Year
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Students investigate ecosystems and habitats, identifying the five basic needs of all living things, the importance of natural resources, and the interactions of human beings and the environment. They examine the agricultural system and its products and by-products. This course also introduces the water cycle and the Earth as a body in space. Students observe matter and describe its properties and states, and they discover the properties of light and sound. Study of force and motion enable them to define the terms and explain the effect of different amounts of force and also how moving objects stop. Finally, students develop their ability to distinguish fact from opinion and recognize the relation of cause and effect.

Science 2 (LE)	Required	Grade 2 Full Year
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They study interdependence in ecosystems, such as the role of bees in pollination and the use and conservation of natural resources. They look beyond food production to the broader purposes of agriculture and recognize the importance of local farms to human society. Students examine the water cycle—including evaporation and condensation—and the life cycles of such living things as frogs, butterflies, and plants. They research topics and formulate questions, make predictions, and then use scientific tools to observe and measure their experiments. By distinguishing fact from opinion and recognizing patterns and cause and effect, students develop the ability to make inferences and communicate their findings.

Science

Science 3 (LE)	Required	Grade 3 Full Year
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They learn how clouds form, what causes the cycles of seasons and of day and night on Earth, and that light and sound are actually energy. Students examine the Earth's eight major biomes and identify how adaptations help plants and animals to survive varying conditions. They become junior meteorologists, able to explain weather and climate and to use weather instruments and knowledge of patterns to observe and predict the weather. Students recognize the information fossils can provide about the Earth's past and use geologic time scales to identify the eras when fossilized organisms lived. They explain how chemical reactions can change the properties of matter, and they investigate energy, magnetism, and electricity. Finally, students research topics and formulate questions, make predictions and observations, experiment and measure using scientific tools, and draw inferences and identify patterns based on their scientific inquiries.

Science 4 (LE)	Required	Grade 4 Full Year
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This course encourages students to become innovative problem-solvers equipped with the skills and knowledge necessary to address twenty-first century issues. Students explore the technical and sometimes surprising facts behind the things they see and experience every day. They expand their knowledge and understanding of topics in the areas of physics, chemistry, Earth science, ecology, biology, and space science. Students investigate genetics and the physical characteristics of living things, ecosystems and extinction, agriculture and sustainable resources, and pollution and recycling. They get to know the Earth's landforms and the types of rocks and soil, and extend their learning beyond the Earth to the solar system and the Milky Way. Finally, students encounter important concepts in physics, such as the types and properties of waves, and in chemistry, such as atoms, molecules, and the conservation of mass.

Science 5 (LE)	Required	Grade 5 Full Year
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Students build their knowledge by crafting models, conducting experiments, creating terrariums, and making electromagnets. They learn about plant and animal cells and their functions, photosynthesis, and the roles of producers, consumers, and decomposers in an ecosystem. Students explore the global water cycle, the negative impacts of weather, and the relationship between weather and climate. They deepen their understanding of their home planet by investigating landforms, volcanic activity, the layers of the Earth's atmosphere and geosphere, the tilt of the Earth's axis, the impacts of its revolution around the Sun, and the Sun's role as source of energy for life on Earth. Students are introduced to elements as the basic substances of all matter and the relationship between matter and particles; they also encounter such core concepts of physics as energy transformation, gravitation, and Newton's first and second laws of motion. They design simple and parallel circuits and use the engineering design process to generate solutions to real-world problems. Finally, they conduct research, formulate questions, make predictions and observations, conduct fair tests using the scientific method, record their findings, and draw conclusions for future investigation.

Mathematics

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVSELMATHK	Math K	LE	R	K	Full Year
LVSELMTH1	Math 1	LE	R	1	Full Year
LVSELMATH2	Math 2	LE	R	2	Full Year
LVSELMATH3	Math 3	LE	R	3	Full Year
LVSELMATH4	Math 4	LE	R	4	Full Year
LVSELMATH5	Math 5	LE	R	5	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 LE - Lincoln Empowered

Math K (LE)	Required	Grade K Full Year
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Students begin to develop foundational mathematics skills such as number identification and recognition and rote counting to 100 by memory. They learn the difference between more than and less than and explore the ways in which numbers are broken down into various components. Students compare measurements, such as longer and shorter and heavier and lighter. They begin to develop problem-solving skills as they engage with simple addition and subtraction equations and word problems. Finally, students are introduced to basic geometry and learn the names and basic attributes of shapes.

Math 1 (LE)	Required	Grade 1 Full Year
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Students strengthen their addition and subtraction skills, compare two-digit numbers using place values and the comparison symbols for greater than, less than, and equal to. Students measure lengths and use measurements to compare the lengths of multiple objects using nonstandard measuring and units. They strengthen their geometry skills by drawing two-dimensional and three-dimensional shapes, and they explore fractions by dividing those shapes into halves and quarters. Students also organize, represent, and interpret data in pictures, tables, and charts.

Math 2 (LE)	Required	Grade 2 Full Year
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Students discover multiple strategies for adding and subtracting numbers and determine which strategies work best for various problem types. They work with number lines and use them to represent whole numbers and their sums and differences. In this course, students expand their knowledge of place value to include thousands and use this concept to compare numbers. They use standard units of measurement to express the length of objects in inches, feet, centimeters, and meters. Mathematics 2 introduces digital and analog time and presents students with word problems involving money. In addition to learning monetary values, students also learn to use the dollar and cent symbols appropriately. Students also deepen their understanding of geometric shapes while exploring fractions by dividing shapes into halves, thirds, and fourths. They are introduced to new ways of representing data, including line plots, picture graphs, and bar graphs. (LE)

Mathematics

Math 3 (LE)	Required	Grade 3 Full Year
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Students explore the relationship between multiplication and division and practice using the order of operations to solve problems, including one- and two-step word problems. In addition to using place value to perform multi digit arithmetic, students round numbers to the nearest ten or hundred. They refine their mathematics skills in relation to money by making change using a combination of bills and coins. Mathematics 3 presents area and perimeter to students as they explore linear and area measurements. They also work with fractions as numbers in this course, representing them on number lines, generating equivalent fractions, and comparing fractions with the same numerator and denominator. (LE, OW)

Math 4 (LE)	Required	Grade 4 Full Year
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Students use equations, arrays, and area models to explain multiplication calculations. They compare multi digit whole numbers, fractions, and decimals using the symbols for greater than, less than, and equal to. Students practice converting measurements, such as feet to inches, and they use their understanding of size to determine whether measurements are reasonable answers to problems. Mathematics 4 introduces students to the protractor, which they use to measure angles in whole number degrees. Students learn to identify right triangles, and they sketch angles, lines, segments, and rays. Students look closely at fractions and decimals in this course by writing equivalent fractions, ordering fractions from least to greatest, comparing fractions with different numerators and denominators, and writing fractions as decimals and vice versa.

Math 5 (LE)	Required	Grade 5 Full Year
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Problems and activities are designed to get students reasoning abstractly and quantitatively, constructing arguments, and modeling with mathematics. Students add, subtract, and multiply fractions, divide fractions by whole numbers, and divide whole numbers by fractions. They perform multiple operations with decimals in addition to comparing, ordering, and rounding them. They use exponents to denote powers of 10. Students are introduced to volume and how to calculate it and classify two-dimensional shapes into categories. They also graph data on a plot line and the coordinate plane, using graphs to solve real-word and mathematical problems.

Partnership Electives

Part-time homeschool students in grades K-5 may take up to four partnership electives. Virtual school students in grades K-5 may take up to two partnership electives. All courses use Schoology for the virtual content.

Course #	Course Title	Day	Time	Location	Grade Level	Course Length
	Cooks in Training	Wednesday	11AM	HUB	K-2	1 Semester
	Dance Theater	Wednesday	2PM	HUB	K-2	1 Semester
LPS0SCI940	Earth Explorations	Wednesday	2PM	HUB	K-2	1 Semester
LVS-ART912	Exploratory Art	Wednesday	10AM	HUB	K-2	1 Semester
	Forensics Jr.	Wednesday	12PM	HUB	K-2	1 Semester
	Forensics Jr. - Solving Mysteries	Wednesday	S2	HUB	K-2	1 Semester
	Gymnastics Jr.	Wednesday	1PM	HUB	K-2	1 Semester
LVS-SCI913	Imagination Station Jr.	Wednesday	1PM	HUB	K-2	1 Semester
LVS-SCI913	Imagination Station Jr.	Wednesday	3PM	HUB	K-2	1 Semester
	Music Adventures	Wednesday	10AM	HUB	K-2	1 Semester
	Music Adventures	Wednesday	S2	HUB	K-2	1 Semester
	Poetry Jr.	Wednesday	12PM	HUB	K-2	1 Semester
	Rhymes and Tales	Wednesday	S2	HUB	K-2	1 Semester
	Tinkering Jr.	Wednesday	11AM	HUB	K-2	1 Semester
LVS-HPE912	Health and Wellness: Gymnastics	NA	NA	Community	K-2, 3-5	1 Semester
LVS-HPE913	Health and Wellness: Horsemanship 1	THUR FRI	11AM 1PM	Hunter's Run Rushlow	K-2, 3-5	Full Year
	Health and Wellness: Horsemanship 2	THUR FRI	11AM 2PM	Hunter's Run Rushlow	K-2, 3-5	Full Year
LPS-GEN990	Health and Wellness: Ice Skating	NA	NA	Community	K-2, 3-5	1 Semester
LVS-HPE914	Health and Wellness: Martial Arts	Wednesday	3PM 12PM	HUB	K-2 3-5	1 Semester
LVS-HPE917	Health and Wellness: Swimming	NA	NA	Community	K-2, 3-5	1 Semester
	Broadway Kids	Wednesday	11AM	HUB	3-5	1 Semester
	Broadway Kids	Wednesday	S2	HUB	3-5	1 Semester
	Chrysanthemums and Caterpillars	Wednesday	1PM	HUB	3-5	1 Semester
	Exploring Poetry	Wednesday	1PM	HUB	3-5	1 Semester
LPS-SCI915	Forensics	Wednesday	10AM	HUB	3-5	1 Semester
	Forensics - Solving Mysteries	Wednesday	S2	HUB	3-5	1 Semester
LVS-HPE911	Health and Wellness: Archery	Thursday	8:30-10 10:30-12 1-2:30	Lincoln Bowman Archery	3-5	1 Semester
	Health and Wellness: Advanced Archery	Thursday	3-4:30	Lincoln Bowman Archery	3-5	1 Semester
	Health and Wellness: Golf	Tuesday	10:30-11:30 1:00-2:00	Downriver Golf Factory	3-5	1 Semester

	Health and Wellness: Self Defense	Wednesday	S2	HUB	3-5	1 Semester
	Health and Wellness: Table Tennis	Wednesday	2PM	HUB	3-5	1 Semester
LPS-SCI920	Imagination Station	Wednesday	2PM	HUB	3-5	1 Semester
LPS-SCI920	Imagination Station	Wednesday	S2	HUB	3-5	1 Semester
	Intro to Technology	Wednesday	1PM 3PM	HUB	3-5	1 Semester
	Michigander	Wednesday	11AM	HUB	3-5	1 Semester
	Music Makers: Guitar	Wednesday	11AM	HUB	3-5	1 Semester
	Music Makers: Percussion	Wednesday	1PM	HUB	3-5	1 Semester
	Music Makers: Piano	Wednesday	10AM	HUB	3-5	1 Semester
	Music Makers: Violin	Wednesday	12PM	HUB	3-5	1 Semester
	Puzzles and Logic	Wednesday	2PM 3PM	HUB	3-5	1 Semester
	Sewing by Hand	Wednesday	10AM	HUB	3-5	1 Semester
	Shakespeare is Fun!	Wednesday	S2	HUB	3-5	1 Semester
	Stop Motion Animation	Wednesday	2PM 3PM	HUB	3-5	1 Semester
LVS-SCI914	Tinkering	Wednesday	10AM	HUB	3-5	1 Semester
	Watercolors	Wednesday	12PM	HUB	3-5	1 Semester
LPS-GEN942	Yarnology	Wednesday	3PM	HUB	3-5	1 Semester

S – Skills Test VR – Virtual Content Repeats each semester PBL - Project Based Learning S2- Second semester

Cooks in Training

Grades K-2

1 Semester (Fall & Winter)

In this class, our little cooks in training will learn how to help out in the kitchen! Students will work on learning skills such as measuring, sanitation, basic knife skills, reading recipes, and the importance of kitchen safety. They will learn how to make items such as simple finger foods, personal pizzas, sandwiches, desserts and more. Students will learn to follow safety rules appropriate for their age.

Dance Theater

Grades K-2

(VR)

1 Semester (Fall & Winter)

In this class, students will take a tour of dance in the theater! Students will explore many different forms of dance practice including Jazz, Contemporary, Hip Hop, Modern, and more! Students will watch and discuss Broadway musicals! This class will keep you physical, and entertain you as you learn about dance and theater. *This class can be taken each semester to learn new skills.

Earth Explorations

Grades K-2

1 Semester (Fall & Winter)

In this class, students will explore a new country from around the world. They will learn about each country's language, culture, location, and daily life. Students will make crafts, play games, and experience different foods or special traditions from each country. *This class will have different content each semester.

Partnership Electives

Exploratory Art (VR)	Grades K-2 1 Semester (Fall & Winter)
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In this class, students will learn to work with pencils, markers, soft pastels, oil pastels, as well as watercolors and acrylic paints on canvas. They will learn about sculpture using clay and glazes, jewelry making, and different artists and cultures all in this engaging class. The virtual content of this class does not change.

Forensics Jr.	Grades K-2 1 Semester (Fall)
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In this class, students are introduced to forensics. Students will learn about fingerprints, footwear and bite impressions, how to find clues and evidence, the police K9 unit, and what it takes to become a good detective.

Forensics Jr. - Solving Mysteries	Grades K-2 1 Semester (Winter)
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In this class, students will use their skills to uncover clues and solve mysteries and puzzles. Students will also use their detective skills to create different types of forensic art. *This class does not have a prerequisite requirement.

Gymnastics Jr. (VR)	Grades K-2 1 Semester (Fall & Winter)
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In this class, students will get moving and grooving! Jr.'s will get to let out some ENERGY!! Students will learn gymnastics fundamentals and training exercises. Learn to dance, stretch and bend!

Imagination Station Jr.	Grades K-2 1 Semester (Fall)
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In this class, students will explore the way that the world works as they discover circuits, magnets, and how things move! Students will gain experience with many projects to help them understand these topics!

Imagination Station Jr.	Grades K-2 1 Semester (Winter)
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In this class, students will discover how living things grow, change, and survive. Students will gain experience with many projects to help them understand these topics!

Music Adventures	Grades K-2 1 Semester (Fall)
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In this class, students will develop a sense of beat and explore rhythm! Students will learn note values and several musical terms. With a multidisciplinary approach to the lessons, students will sing, move, play, and create their way to a deeper understanding of music while having a great time!

Partnership Electives

Music Adventures	Grades K-2 1 Semester (Winter)
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In this class, students will journey around the world to learn about music and rhythms, from other cultures. Songs, games, instruments and stories will help give a deeper understanding and appreciation for music and styles. Students will learn about some famous composers and prepare to read music.

Poetry Jr.	Grades K-2 1 Semester (Fall)
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In this class, students will explore simple poems and rhymes for kids. Dr. Seuss, Shel Silverstein, and A. A. Milne will delight students and teach them about meter and imagination. Students will learn about poets who write primarily for kids and try their hand at forming rhymes and poems of their own. A great introduction to poetry and the power of language...this class will bring out the poet in your child!

Rhymes and Tales	Grades K-2 1 Semester (Winter)
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In this class, students will use their imagination and creativity! Students will learn various nursery rhymes and discuss several fairy tales. They will learn about creating a character and using the patterns and rhythms in poems. Join us on a journey inside the storybook!

Tinkering Jr.	Grades K-2 1 Semester (Fall & Winter)
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In this class, students will build simple projects and have an opportunity to apply the knowledge they've gained as they design, build, experiment, troubleshoot, and adjust their projects.

Health and Wellness: Gymnastics (S)	Grades K-5 1 Semester (Fall & Winter)
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In this class, students will learn the fundamentals of gymnastics. A variety of apparatuses are shown, such as trampoline, balance beam, tumbling, uneven bars, vault, and more.

Health and Wellness: Horsemanship 1	Grades K-5 Full Year
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In this class, students will learn about all aspects of equestrian training including the care of a horse, approaching a horse, saddling, and riding. Note: there are 10 application lessons per semester for this class.

Health and Wellness: Horsemanship 2	Grades K-5 Full Year
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Prerequisite: Health and Wellness: Horsemanship 1

In this class, students will continue learning about all aspects of equestrian training. This course is for students who have completed at least one year of Health and Wellness: Horsemanship. Note: there are 10 application lessons per semester for this class.

Partnership Electives

Health and Wellness: Ice Skating

Grades K-5

1 Semester (Fall & Winter)

In this class, students will learn the FUNdamentals of ice skating! Six progressive levels introduce forward and backward skating, stops, edges, crossovers, and turns. All classes will focus on proper skill development taught in a positive, FUN way.

Health and Wellness: Martial Arts

Grades K-5

1 Semester (Fall & Winter)

In this class, students will learn the heart of martial arts, self-defense, and physical fitness. Students will learn to improve body posture, the ability to follow directions and dojo protocol, and improve self control impulses. Some of the techniques used to train the students will be brain gym, focus, relaxation, discipline, and respect. Students will be introduced to the Padded Sword (Chanbura), the Bo staff (bokken), and the Katana (wooden sword). This class may be repeated each semester to learn new skills and earn new belts.

Health and Wellness: Swimming

Grades K-5

(S)(VR)

1 Semester (Fall & Winter)

In this class, students will learn all about basic swimming strokes and water safety instruction! *Application classes will be based on skill level.

Broadway Kids

Grades 3-5

1 Semester (Fall)

In this class, students will learn all about Broadway and the shows that were created with kids in mind! Did you know that to bring The Little Mermaid to life on the stage, the mermaids wore Heelys? This class will involve singing, dancing, and acting to help bring these Broadway shows to life. Observing video clips, designing costumes, and learning about how a character develops is all part of the fun!

Broadway Kids

Grades 3-5

1 Semester (Winter)

In this class, students will focus on Broadway shows that use characters played by kids! Would you like to learn how to give a good audition? Do you know how to develop a character? We will study how kids are casted in a show and then what comes next as we look at shows like Oliver, Matilda, Annie, The Sound of Music and many more! If you want to learn what it takes to sing and dance on a stage, this class is for you!

Chrysanthemums and Caterpillars

Grades 3-5

1 Semester (Fall & Winter)

In this class, students will be looking at nature, both outside and inside, using videos and pictures. They will study many things, including butterflies, moths, amphibians and wildflowers. Students will note their observations in a journal throughout the semester. *This class will have different content each semester.

Partnership Electives

Exploring Poetry

Grades 3-5
1 Semester (Fall)

In this class, students will be introduced to famous poets and their poetic style, as they explore different types of poems. This is the class that will help get your big ideas on paper!

Forensics

Grades 3-5
1 Semester (Fall)

In this class, students are introduced to forensics. Students will learn about fingerprints, footwear and bite impressions, how to find clues and evidence, police K9 unit, and what it takes to become a good detective.

Forensics - Solving Mysteries

Grades 3-5
1 Semester (Winter)

In this class, students will use Forensics skills to uncover clues, solve mysteries and become a master detective. Students will learn how to put different types of evidence together to solve cases.

Health and Wellness: Archery

Grades 3-5
1 Semester (Fall & Winter)

In this class, students will learn critical safety procedures, archery techniques, terminology, scoring, tournament methods, and the history of archery.

Health and Wellness: Advanced Archery

(S)

Grades 3-5
1 Semester (Fall & Winter)

Prerequisite: Archery

In this class, students will learn advanced archery techniques, mental strength, and tournament rules, along with different scoring methods and more focused instruction. A minimum of one year in archery is required to take Advanced Archery.

Health and Wellness: Golf

(VR)

Grades 3-5
1 Semester (Fall & Winter)

In this class, students will learn grip, swings, golf course management, putting, and club selection. Each golfer will move up in skill level by working at their own pace on a virtual golfing platform. Equipment will be provided for the application class, or you may bring your own.

Health and Wellness: Self Defense

(VR)

Grades 3-5
1 Semester (Fall & Winter)

In this class, students will learn how to protect their body, how to block an attack against a punch or grab from the front or behind, and learn how to react in self-defense. Students will learn how to avoid being bullied, how to get away from an uncomfortable situation, and how to peacefully resolve conflict through proper techniques and mindset.

Partnership Electives

Health and Wellness: Table Tennis (VR)

Grades 3-5

1 Semester (Fall & Winter)

In this class, students will learn the basics of holding the table tennis racket, the proper grip, forehand, backhand, returning the serve, and basic lobs and strikes. They will learn rules to play as an individual or as a team.

Imagination Station

Grades 3-5

1 Semester (Fall)

In this class, students will discover how things move and change. Students will explore how things move fast or slow and how to change their direction. Students will have the opportunity to experience many projects to help them understand these topics!

Imagination Station

Grades 3-5

1 Semester (Winter)

In this class, students will explore the building blocks of life by taking a closer look at nature! Students will explore how nature behaves by looking at a variety of habitats. Students will gain experience with many projects to help them understand these topics!

Intro to Technology (VR)

Grades 3-5

1 Semester (Fall & Winter)

In this class, students will learn the basics of typing and practice it to build up their words per minute. Students will also learn computer and technology skills including basic device skills, Google Docs and Google Drive, social media and internet etiquette and safety, troubleshooting, and how to put together and deliver multimedia presentations.

Michigander (VR)

Grades 3-5

1 Semester (Fall & Winter)

In this class, students will learn fascinating facts about the Mitten State! Discover our flora and fauna, and famous folks who have called this great state home. Decide whether you're a Michigander or a Michiganian as you learn about our industries and our mysteries.

Music Makers: Guitar

Grades 3-5

1 Semester (Fall & Winter)

In this class, students will learn guitar in a fun and informative way. Studying the fundamentals of music, students will learn to read music as well as practice proper instrument technique for performance. Sheet music is provided. This class will require practice time. Instruments will be provided for those who need them.

Partnership Electives

Music Makers: Percussion

Grades 3-5

1 Semester (Fall & Winter)

In this class, students will learn percussion in a fun and informative way. Studying the fundamentals of music, students will learn to read music as well as practice proper instrument technique for performance. Sheet music is provided. This class will require practice time. Instruments will be provided for those who need them.

Music Makers: Piano

Grades 3-5

1 Semester (Fall & Winter)

In this class, students will learn piano in a fun and informative way. Studying the fundamentals of music, students will learn to read music as well as practice proper instrument technique for performance. Sheet music is provided. This class will require practice time. Instruments will be provided for those who need them.

Music Makers: Violin

Grades 3-5

1 Semester (Fall & Winter)

In this class, students will learn violin in a fun and informative way. Studying the fundamentals of music, students will learn to read music as well as practice proper instrument technique for performance. Sheet music is provided. This class will require practice time. Instruments will be provided for those who need them.

Puzzles and Logic

Grades 3-5

(VR)

1 Semester (Fall & Winter)

In this class, students will learn to problem solve and practice the rules of chess as well as other strategy and logic games. Students will work to create key strategies, learn classic moves, and solve puzzles using critical thinking.

Sewing by Hand

Grades 3-5

1 Semester (Fall & Winter)

In this class, students will learn how to create a variety of projects using basic tools and hand sewing techniques. Topics covered include running, whip, back, and blanket stitches, accurate measuring and cutting, attaching buttons, using simple patterns, basic embroidery stitches, fabric types and their different uses, and the proper usage of basic sewing tools. Application projects and virtual lessons will differ each semester.

Shakespeare is Fun!

Grades 3-5

1 Semester (Winter)

In this class, students will be introduced to Shakespeare! Students will learn about who Shakespeare was and a bit about the time when he lived. They will explore some of Shakespeare's poetic language and learn about theater when he was writing his famous plays. Students will examine several of Shakespeare's plays and poems at a child's level. They will be introduced to some of the most famous quotes and speeches in Shakespeare's work.

Partnership Electives

Stop Motion Animation (VR)

**Grades 3-5
1 Semester (Fall & Winter)**

In this class, students will study different mediums including claymation, pixilation, paper cut-out, and more. They will dive into different animation techniques.

Tinkering

**Grades 3-5
1 Semester (Fall & Winter)**

In this class, students will build simple projects and have an opportunity to apply the knowledge they've gained as they design, build, experiment, troubleshoot, and adjust their projects.

Watercolors (VR)

**Grades 3-5
1 Semester (Fall & Winter)**

In this class, students will study techniques and media used in watercolor. Students will expand their knowledge and learn how to manipulate art pieces by adding different media to watercolor.

Yarnology

**Grades 3-5
1 Semester (Fall & Winter)**

In this class, students will study different ways to use, color and make yarn. They will explore a variety of techniques such as weaving looms, knitting, crochet, loom knitting, and circular knitting machines. Students will also learn about different applications for wool such as hand dyeing, spinning wool into yarn, wet felting and needle felting!

GRADES 6-8 COURSE OFFERINGS

English Language Arts

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVS-ELA600	English 6	ED, OW	R	6	Full Year
LVS-ELA700	English 7	ED, OW	R	7	Full Year
LVS-ELA800	English 8	ED, OW	R	8	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 ED - Edgenuity OW - Odysseyware

English 6 (ED, OW)	Required	Grade 6
		Full Year

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 *Through the Looking Glass*. 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.

English 7 (ED, OW)	Required	Grade 7
		Full Year

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 *White Fang* 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.

English 8 (ED, OW)	Required	Grade 8
		Full Year

In this course, students build on their knowledge and blossom as thoughtful readers and clear, effective writers. A balance of literary and informational texts engage students throughout the course in reading critically, analyzing texts, and citing evidence to support claims. Students sharpen their vocabulary, grammar, and listening skills through lessons designed to provide explicit modeling and ample opportunities to practice. Students also routinely write responses to texts they have read, and use more extensive, process-based lessons to produce full-length essays in narrative, informative, analytical, and argumentative formats. In this full year course, students develop a mastery of reading, writing, and language arts skills.

Social Studies

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVS-SOC600	Social Studies 6	ED, OW	R	6	Full Year
LVS-SOC700	Social Studies 7	ED, OW	R	7	Full Year
LVS-SOC800	Social Studies 8	ED, OW	R	8	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 ED - Edgenuity OW - Odysseyware

Social Studies 6 (ED, OW)	Required	Grade 6 Full Year
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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.

Social Studies 7 (ED, OW)	Required	Grade 7 Full Year
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This yearlong course covers ancient peoples, cultures, civilizations, and innovations through approximately 300 CE. Students are introduced to historical inquiry skills for application to studies of ancient civilizations. Students explore physical and human geography to explain how ancient people interacted with the environment and understand how civilizations developed. Students study early economies and how trade relations affected culture and language. In later lessons, students examine how early forms of government and technology have had a lasting influence on modern civilization. Throughout the course, students analyze maps and primary sources to identify patterns and make connections across time and space. Students are exposed to diverse cultures and learn to explore the past with historical empathy.

Social Studies 8 (ED, OW)	Required	Grade 7 Full Year
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Offering an interactive and comprehensive overview of American history, this course engages and inspires students to learn about the rich and diverse history of America’s native peoples, early European colonization and settlement in America, and the creation of a new nation through the American Revolution. Middle school students enrolled in this course will closely examine major changes brought about by the nation’s reconstruction.

Science

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVS-SCI600	Science 6	ED, OW	R	6	Full Year
LVS-SCI700	Science 7	ED, OW	R	7	Full Year
LVS-SCI800	Science 8	ED, OW	R	8	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 ED - Edgenuity OW - Odysseyware

Science 6 (ED, OW)	Required	Grade 6 Full Year
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In this course students learn about the classifications of organisms and learn how to analyze the diversity of each unique group of living organisms. They learn about their structure and examine each of their functions in the Ecosystem and how it can change over time. Students also learn about the Earth, including the atmosphere, hydrosphere, and a unit on weather and climate. Students then learn about motion, forces, electricity, magnetism, and energy on Earth.

Science 7 (ED, OW)	Required	Grade 7 Full Year
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In this course students will expand their knowledge of organisms and learn about adaptations. Students then expand their knowledge about the Earth with topics such as the history of the Earth, more on the hydrosphere, and structure and plate tectonics. Finally, they learn how weather can affect the earth structure, different types of energy resources, and different types of waves.

Science 8 (ED, OW)	Required	Grade 8 Full Year
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In this course, students continue to expand their knowledge on life, earth, and physical science. They first expand their knowledge on the Electromagnetic Spectrum. They then learn about cell structure in plants and animals, genetics, natural selection, and evolution. They finish the year by learning about the periodic table, physical and chemical properties, types of matter, and chemical reactions.

Mathematics

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVS-MTH600	Math 6	ED, OW	R	6	Full Year
LVS-MTH700	Math 7	ED, OW	R	7	Full Year
LVS-MTH800	Math 8	ED, OW	R	8	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 ED - Edgenuity OW - Odysseyware

Math 6 (ED, OW)	Required	Grade 6 Full Year
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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 summarize data sets. The course concludes with students reasoning about relationships among shapes to determine area, surface area, and volume.

Math 7 (ED, OW)	Required	Grade 7 Full Year
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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.

Math 8 (ED, OW)	Required	Grade 8 Full Year
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Students make connections between verbal, numeric, algebraic, and graphical representations of relations and apply this knowledge to create linear functions that can be used to model and solve mathematical and real-world problems. Students focus on formulating expressions and equations, including modeling an association in bivariate data with a linear equation, and writing and solving linear equations and systems of linear equations. Students develop a deeper understanding of how translations, rotations, reflections, and dilations of distances and angles affect congruency and similarity. Students develop rules of exponents and use them to simplify exponential expressions. Students extend rules of exponents as they perform operations with numbers in scientific notation. Estimating and comparing square roots of non-perfect squares to perfect squares exposes students to irrational numbers and lays the foundation for applications such as the Pythagorean theorem, distance, and volume.

Foreign Language

According to the Michigan Merit Curriculum beginning with the Class of 2016 students will need to successfully complete two credits of a language other than English in grades 9-12; OR an equivalent learning experience in grades K-12 prior to graduation.

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVSSPN101M	Spanish I	ED, OW	E	7-8	Full Year
	Spanish II	ED, OW	E	7-8	Full Year
LVS-FRE801	French I	ED, OW	E	7-8	Full Year
LVS-FRE810	French II	ED, OW	E	7-8	Full Year
101MLVS-GER	German I*	ED	E	7-8	Full Year
	German II*	ED	E	7-8	Full Year
	Chinese I*	ED	E	7-8	Full Year
	Chinese II*	ED	E	7-8	Full Year
	Latin I*	ED	E	7-8	Full Year
	Latin II*	ED	E	7-8	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math

*Online Teacher/must be completed on time ED - Edgenuity OW - Odysseyware

Spanish I (OW, ED)	Elective 1 credit	Grades 7 - 8 Full Year
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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, a new vocabulary theme and grammar concept, 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.

Spanish II (OW, ED)	Elective 1 credit	Grades 7 - 8 Full Year
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Prerequisite: Spanish I

Students 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major Spanish-speaking areas in Europe and the Americas, and assessments.

Foreign Languages

French I (OW, ED)	Elective 1 credit	Grades 7 - 8 Full Year
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Students begin their introduction to French 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

French II (OW, ED)	Elective 1 credit	Grades 7 - 8 Full Year
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Prerequisite: French I

Students continue their introduction to French in this second year with review of 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major French speaking areas across the globe, and assessments.

German I* (ED)	Elective 1 credit	Grades 7 - 8 Full Year
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Students begin their introduction to German 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

German II* (ED)	Elective 1 credit	Grades 7 - 8 Full Year
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Prerequisite: German I

Students continue their introduction to high school German in this second-year course with review of 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

Foreign Languages

Chinese I* (ED)	Required 1 credit	Grades 7 - 8 Full Year
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Students begin their introduction to Chinese 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

Chinese II* (ED)	Elective 1 credit	Grades 7 - 8 Full Year
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Prerequisite: Chinese I

Students continue their introduction to Chinese in this second-year course with review of 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

Latin I* (ED)	Required 1 credit	Grades 7 - 8 Full Year
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Students begin their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

Latin II* (ED)	Elective 1 credit	Grades 7 - 8 Full Year
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Prerequisite: Latin I

Students continue their introduction to Latin by continuing to cover the fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, a notable ancient myth in Latin, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

Partnership Electives

Part time homeschool students in grades 6-8 may take up to four partnership electives. Virtual school students and students in grades 6-8 may take up to two partnership electives. All courses use Schoology for the virtual content.

<u>Course #</u>	<u>Course Title</u>	<u>Day</u>	<u>Time</u>	<u>Location</u>	<u>Grade Level</u>	<u>Course Length</u>
	3D Art	Wednesday	11AM	HUB	6-8	1 Semester
	Advanced Photography	Wednesday	S2	HUB	6-8	1 Semester
	Animation Projects	Wednesday	1PM	HUB	6-8	1 Semester
LPS-HUM900	Babysitting 1	Wednesday	2PM 3PM	HUB	6-8	1 Semester
	Babysitting 2	Wednesday	S2	HUB	6-8	1 Semester
	Cake Decorating	Wednesday	1PM	HUB	6-8	1 Semester
	Cooking	Wednesday	12PM	HUB	6-8	1 Semester
	Eureka	Wednesday	12PM	HUB	6-8	1 Semester
LPS-SCI915	Forensics	Wednesday	11AM	HUB	6-8	1 Semester
	Forensics - Mock Crime Scenes	Wednesday	S2	HUB	6-8	1 Semester
	Genealogy	Wednesday	12PM	HUB	6-8	1 Semester
LPS-GEN980	German Conversation and Culture	Wednesday	10AM	HUB	6-8	1 Semester
	Health and Wellness: Advanced Archery	Thursday	3-4:30	Lincoln Bowman Archery	6-8	1 Semester
LVS-HPE911	Health and Wellness: Archery	Thursday	8:30-10 10:30-12 1-2:3	Lincoln Bowman Archery	6-8	1 Semester
	Health and Wellness: Golf	Tuesday	11:45-12:45 2:15-3:15	Downriver Golf Factory	6-8	1 Semester
LVS-HPE912	Health and Wellness: Gymnastics	NA	NA	NA	6-8	1 Semester
LVS-HPE913	Health and Wellness: Horsemanship 1	THUR FRI	11AM 1PM	Hunter's Run Rushlow's	6-8	Full Year
	Health and Wellness: Horsemanship 2	THUR FRI	11AM 2PM	Hunter's Run Rushlow's	6-8	Full Year
LPS-GEN990	Health and Wellness: Ice Skating	NA	NA	NA	6-8	1 Semester
	Health and Wellness: Martial Arts	Wednesday	11AM	HUB	6-8	1 Semester
	Health and Wellness: Self Defense	Wednesday	10AM	HUB	6-8	1 Semester
LVS-HPE917	Health and Wellness: Swimming	NA	NA	NA	6-8	1 Semester
	Health and Wellness: Table Tennis	Wednesday	1PM	HUB	6-8	1 Semester
LPS-MTH910	Money Management 1	NA	NA	HUB	6-8	1 Semester
	Music Makers: Guitar	Wednesday	10AM	HUB	6-8	1 Semester
	Music Makers: Percussion	Wednesday	12PM	HUB	6-8	1 Semester
	Music Makers: Piano	Wednesday	11AM	HUB	6-8	1 Semester

	Music Makers: Violin	Wednesday	1PM	HUB	6-8	1 Semester
	Outdoor Adventure Skills	Wednesday	S2	HUB	6-8	1 Semester
	Outdoor Adventure Skills	Wednesday	2PM 3PM	HUB	6-8	1 Semester
	Photography Essentials	Wednesday	2PM 3PM	HUB	6-8	1 Semester
	Upcycle Machine Sewing	Wednesday	S2	HUB	6-8	1 Semester
LPS-GEN942	Yarnology	Wednesday	2PM	HUB	6-8	1 Semester

S – Skills Test VR – Virtual Content Repeats each semester PBL - Project Based Learning

3D Art (VR)

Grades 6-8

1 Semester (Fall & Winter)

In this class, students will learn about sculpture, clay, jewelry, candle making, printmaking, and mosaics. Students will focus on a deeper learning of each type of 3D art. The virtual content of this course does not change.

Advanced Photography

Grades 6-8

1 Semester (Winter)

In this class, students will develop their own individual photographic style. By utilizing advanced composition methods and artistic techniques, students will begin to develop a photographic eye and discover what they like and dislike in their photos. Students will be given photographic challenges and will focus on creating pictures that are works of art!

Animation Projects

Grades 6-8

Full Year

In this class, students will work together in small teams to create an animated project from beginning to end. Students will design their own characters, sets, and scripts for a completed project or advertisement in the medium of stop-motion animation. This is a year long class, however, new students can be added for the winter semester. Students that join in at the winter semester will be working on animating and editing with the pre-established groups and projects.

Babysitting 1

Grades 6-8

1 Semester (Fall)

In this class, students will receive in-depth study of the American Red Cross Babysitter training guide, with opportunity for official babysitter certification. Students will explore caring for children of all ages, kitchen safety, and simple meal preparation along with many other aspects of babysitting. Students will be trained in CPR, First Aid and AED.

Partnership Electives

Babysitting 2

Grades 6-8
1 Semester (Winter)

Prerequisite: Babysitting 1

In this class, students will dive deeper into the social, cognitive, emotional, and physical domain of young children. Students will experience real life developmental issues, and explore challenges from the parenting, educational, and caregiver viewpoints. Using educational theories, students will observe and record children's behavior to expand their hands on experience. Students will gain skills useful in future studies of education, social work, health care, and even parenting.

Cake Decorating (VR)

Grades 6-8
1 Semester (Fall & Winter)

In this class, students will explore a range of cake decorating skills that they can apply at home. Students may learn a variety of skills such as piping frosting, working with fondants, learning to frost a cake, making buttercream roses, air brushing, and more. Each semester will be different and will showcase different skills. You will not need any prior skills to take this class.

Cooking

Grades 6-8
1 Semester (Fall & Winter)

In this class, students will learn to feed themselves! Students will learn basic cooking skills and simple recipes that they can replicate with minimal effort and ingredients. Each semester will be different and will showcase different recipes. You will not need any prior skills to take this class.

Eureka

Grades 6-8
1 Semester (Fall)

In this class, students will explore the development of various inventions and will learn how to construct an assortment of projects. This class is sure to challenge a student's problem solving skills.

Forensics

Grades 6-8
1 Semester (Fall)

In this class, students spend time investigating different types of evidence such as fingerprinting with different types of powders, DNA analysis, trace evidence, handwriting analysis, digital forensics, and finding evidence with forensic light sources. Students will learn about the techniques used in connection with solving crimes, and will solve a mock crime scene.

Forensics - Mock Crime Scenes

Grades 6-8
1 Semester (Winter)

In this class, students will use Forensics skills to uncover clues, solve mysteries, and become a master detective. Students will learn how to identify evidence at a crime scene and will also create and solve their own age-appropriate mock crime scenes.

Partnership Electives

Genealogy (VR)

Grades 6-8

1 Semester (Fall & Winter)

In this class, students will learn about the importance of a family tree and family history. Each student will begin tracing their own family history, while learning tips for tracking down their own roots to see where they lead!

German Conversation and Culture (VR)

Grades 6-8

1 Semester (Fall & Winter)

In this class, students will explore the German language and culture through a discussion of food, clothing, language, and people of German-speaking countries. Students will be given the opportunity to look at similarities and differences between how we and German-speaking people talk and live. *Students may take this course each semester to continue gaining skills.

Health and Wellness: Advanced Archery

Grades 6-8

1 Semester (Fall & Winter)

In this class, students will learn advanced archery techniques, mental strength, and tournament rules, along with different scoring methods and more focused instruction. A minimum of one year in archery is required to take Advanced Archery.

Health and Wellness: Archery

Grades 6-8

1 Semester (Fall & Winter)

In this class, students will learn critical safety procedures, archery techniques, terminology, scoring, tournament methods, and the history of archery.

Health and Wellness: Golf (VR)

Grades 6-8

1 Semester (Fall & Winter)

In this class, students will learn grip, swings, golf course management, putting, and club selection. Each golfer will move up in skill level by working at their own pace on a virtual golfing platform. Equipment will be provided for the application class, or you may bring your own.

Health and Wellness: Gymnastics

Grades 6-8

1 Semester (Fall & Winter)

In this class, students will learn the fundamentals of gymnastics. A variety of apparatuses are shown, such as trampoline, balance beam, tumbling, uneven bars, vault, and more.

Health and Wellness: Horsemanship 1

Grades 6-8

Full Year

In this class, students will learn about all aspects of equestrian training including the care of a horse, approaching a horse, saddling, and riding. Note: there are 10 application lessons per semester for this class.

Partnership Electives

Health and Wellness: Horsemanship 2

Grades 6-8

Full Year

In this class, students will continue learning about all aspects of equestrian training. This course is for students who have completed at least one year of Health and Wellness: Horsemanship. Note: there are 10 application lessons per semester for this class.

Health and Wellness: Ice Skating

Grades 6-8

1 Semester (Fall & Winter)

In this class, students will learn the FUNdamentals of ice skating! Six progressive levels introduce forward and backward skating, stops, edges, crossovers, and turns. All classes will focus on proper skill development taught in a positive, FUN way.

Health and Wellness: Martial Arts

Grades 6-8

1 Semester (Fall & Winter)

In this class, students will learn the heart of martial arts, self-defense, and physical fitness. Students will learn to improve body posture, the ability to follow directions and dojo protocol, and improve self control impulses. Some of the techniques used to train the students will be brain gym, focus, relaxation, discipline, and respect. Students will be introduced to the Padded Sword (Chanbura), the Bo staff (bokken), and the Katana (wooden sword). This class may be repeated each semester to learn new skills and earn new belts.

Health and Wellness: Self Defense

Grades 6-8

(VR)

1 Semester (Fall & Winter)

In this class, students will learn how to protect their body, how to block an attack against a punch or grab from the front or behind, and learn how to react in self-defense. Students will learn how to avoid being bullied, how to get away from an uncomfortable situation, and how to peacefully resolve conflict through proper techniques and mindset.

Health and Wellness: Swimming

Grades 6-8

(VR)

1 Semester (Fall & Winter)

In this class, students will learn all about basic swimming strokes and water safety instruction!

*Application classes will be based on skill level.

Health and Wellness: Table Tennis

Grades 6-8

(VR)

1 Semester (Fall & Winter)

In this class, students will learn the basics of holding the table tennis racket, the proper grip, forehand, backhand, returning the serve, and basic lobs and strikes. They will learn rules to play as an individual or as a team.

Partnership Electives

Money Management 1

Grades 6-8
1 Semester (Winter)

In this class, students will be introduced to basic financial skills including decision making, income, budgeting, loans, credit, consumer awareness, saving, and identity protection and privacy.

Music Makers: Guitar

Grades 6-8
1 Semester (Fall & Winter)

In this class, students will learn guitar in a fun and informative way. Studying the fundamentals of music, students will learn to read music as well as practice proper instrument technique for performance. Sheet music is provided. This class will require practice time. Instruments will be provided for those who need them.

Music Makers: Percussion

Grades 6-8
1 Semester (Fall & Winter)

In this class, students will learn percussion in a fun and informative way. Studying the fundamentals of music, students will learn to read music as well as practice proper instrument technique for performance. Sheet music is provided. This class will require practice time. Instruments will be provided for those who need them.

Music Makers: Piano

Grades 6-8
1 Semester (Fall & Winter)

In this class, students will learn piano in a fun and informative way. Studying the fundamentals of music, students will learn to read music as well as practice proper instrument technique for performance. Sheet music is provided. This class will require practice time. Instruments will be provided for those who need them.

Music Makers: Violin

Grades 6-8
1 Semester (Fall & Winter)

In this class, students will learn violin in a fun and informative way. Studying the fundamentals of music, students will learn to read music as well as practice proper instrument technique for performance. Sheet music is provided. This class will require practice time. Instruments will be provided for those who need them.

Outdoor Adventure Skills

Grades 6-8
1 Semester (Fall)

In this class, students will learn a variety of skills geared toward outdoor adventuring. Topics of study include ropes, knots, lashings, fire safety, fire building, hiking, map and compass skills, first aid, the principle of Leave No Trace, the Outdoor Code, and wildlife safety.

Partnership Electives

Outdoor Adventure Skills**Grades 6-8
1 Semester (Winter)**

In this class, students will learn a variety of skills geared toward outdoor adventuring. Topics include water safety, water rescue, weather hazards, emergency preparedness, personal fitness, knife safety, basic whittling, camp tool safety and usage, emergency shelters, campsite set up, menu planning and camp cooking through a variety of methods, and poisonous plants.

Photography Essentials**Grades 6-8
1 Semester (Fall)**

In this class, students will delve into the exposure triangle and how to adjust their cameras to capture that perfect shot. This class is a great foundation to photography and getting out of “auto” mode on your camera! Bridge cameras will be used to allow students to move past “point and shoot” and use beginning composition skills to create photographs that move beyond snapshots!

Upcycle Machine Sewing**Grades 6-8
1 Semester (Winter)**

In this class, students will study the parts of a sewing machine, types of thread, how to thread a needle and fill a bobbin, how to read a pattern, and how to select a pattern based on skill level. Students will learn to create simple projects such as a pillow or pillow case using a shirt, a bag out of old blue jeans, an apron from a men's dress shirt, and more.

Yarnology**Grades 6-8
1 Semester (Fall & Winter)**

In this class, students will study different ways to use, color and make yarn. They will explore a variety of techniques such as weaving looms, knitting, crochet, loom knitting, and circular knitting machines. Students will also learn about different applications for wool such as hand dyeing, spinning wool into yarn, wet felting and needle felting!

GRADES 9-12 COURSE OFFERINGS

English Language Arts

All students must successfully complete the standards found in four years of English.

Course #	Course Title	Platform		Grade Level	Course Length
LVS-ENG101	English 9	ED, OW	R	9	Full Year
	Honors English 9	ED	H	9	Full Year
LVS-ENG201	English 10	ED, OW	R	10	Full Year
	Honors English 10	ED	H	10	Full Year
LVS-ENG301	English 11	ED, OW	R	11	Full Year
	Honors English 11	ED	H	11	Full Year
LVS-ENG401	English 12	ED, OW	R	12	Full Year
	Honors English 12	ED	H	12	Full Year
	AP Lang & Comp 12	ED	H	12	Full Year
LVS-ENG510	AP Lit & Comp 12	ED, OW	H	12	Full Year
LVS-COM100	Essentials of Communications	ED	V	10-12	1 Semester

R – Required H – Honors S – STEM V – VPAA M – 4th Year Math E -- Elective
 **Must take prerequisite first ED - Edgenuity OW - Odysseyware

English 9 (ED, OW)	Required 1 credit	Grade 9 Full Year
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This freshman-year English course engages students in literary analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including Homer’s The Odyssey, Shakespeare’s Romeo and Juliet, and Richard Connell’s “The Most Dangerous Game.” They will also study short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

English Language Arts

Honors English 9 (ED)	Honors 1 credit	Grade 9 Full Year
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This freshman honors English course invites students to explore a variety of diverse and complex texts organized into thematic units. Students will engage in literary analysis and inferential evaluation of great texts, both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, and examine and critique how authors develop ideas in a variety of genres. Interwoven throughout the lessons are activities that encourage students to strengthen their oral language skills, research and critically analyze sources of information, and produce clear, coherent writing. In addition to activities offered to students in core courses, honors students are given additional opportunities to create and to participate in project-based learning activities, including writing a Shakespearian sonnet and creating an original interpretation of a Shakespearian play. Honors students will read a range of classic texts, including Homer's *The Odyssey*, Shakespeare's *Romeo and Juliet*, Jack London's "To Build a Fire" and Richard Connell's "The Most Dangerous Game." Students will also read Sue Macy's full length nonfiction work *Wheels of Change: How Women Rode the Bicycle to Freedom (With a Few Flat Tires Along the Way)*, and will study a variety of short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

English 10 (ED,OW)	Required 1 credit	Grade 10 Full Year
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Prerequisite: English 9

Focused on application, this 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.

Honors English 10 (ED)	Honors 1 credit	Grade 10 Full Year
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This sophomore-year honors English course provides engaging and rigorous lessons with a focus on academic inquiry to strengthen knowledge of language arts. Honors reading lessons require analyzing complex texts, while concise mini-lessons advance writing and research skills to craft strong, compelling essays and projects. Students will write argumentative and analytical essays based on literary texts, as well as an informative research paper using MLA style. Throughout the course, students read a range of classic and contemporary literary texts including Henrik Ibsen's *A Doll's House*, George Orwell's *Animal Farm*, and Marjane Satrapi's *Persepolis*. In addition to reading a wide range of literary texts, students read and analyze complex informational and argumentative texts including Sonia Sotomayor's "A Latina Judge's Voice," Niccolò Machiavelli's *The Prince*, and the contemporary informational text *Sugar Changed the World: A Story of Magic, Spice, Slavery, Freedom, and Science*.

English Language Arts

English 11 (ED, OW)	Required 1 credit	Grade 11 Full Year
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Prerequisite: English 10

This 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 Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

Honors English 11 (ED)	Honors 1 credit	Grade 11 Full Year
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This junior-year honors English course invites students to delve into American literature from early American Indian voices through contemporary works. Students will engage in literary analysis and inferential evaluation of great texts, including the full length novel *The Awakening* by Kate Chopin. While critically reading fiction, poetry, drama, and expository nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, and examine and critique how authors develop ideas in a variety of genres. Interwoven throughout the lessons are activities that encourage students to strengthen their oral language skills, research and critically analyze sources of information, and produce clear, coherent writing. To round out the course, students will read a range of short but complex texts, including Henry David Thoreau's essay "Civil Disobedience," Floyd Dell's drama *King Arthur's Socks*, and works by Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

English 12 (ED, OW)	Required 1 credit	Grade 12 Full Year
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Prerequisite: English 11

This 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.

English Language Arts

Honors English 12 (ED)	Honors 1 credit	Grade 12 Full Year
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This senior-year honors English course invites students to delve into British literature, from ancient texts such as the epic of Beowulf through contemporary works. Students will engage in a variety of rigorous lessons with a focus on academic inquiry, literary analysis, and inferential evaluation. While critically reading fiction, poetry, drama, and expository nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, examine and critique how authors develop ideas in a variety of genres, and synthesize ideas across multiple texts. In addition to activities offered to students in core courses, honors students are given additional opportunities to create and participate in project-based learning activities, including creating a time travel brochure and an original interpretation of William Shakespeare's The Tragedy of Hamlet. Honors students will read a range of classic texts, including Robert Louis Stevenson's The Strange Case of Dr. Jekyll and Mr. Hyde, "Politics and the English Language" by George Orwell, and William Shakespeare's The Tragedy of Hamlet. In addition to full length works, students will read a variety of excerpts, including readings from Lord of the Rings: The Fellowship of the Ring, The Smithsonian's History of America in 101 Objects, and Chaucer's The Canterbury Tales, as well as a variety of short fiction, speeches, and poetry.

AP Language & Comp 12* (ED)	Honors 1 credit	Grade 12 Full Year
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Prerequisites: English 11 with a grade of "B" or better &/or permission of instructor.

This college-level course prepares students for the AP English Language and Composition Exam while exploring and analyzing a variety of rhetorical contexts. This is a fast-paced, upper level course designed for highly motivated students. Multiple opportunities are provided to enhance test-taking skills through critical reading, writing, classroom assignments, and discussion activities. AP English Language and Composition practice assessments and essays will be given throughout the course as well. This course provides students an opportunity to increase knowledge concerning prose of many styles and genres, including essays, journalistic writing, political writing, science writing, nature writing, autobiographies/biographies, diaries, speeches, history writing, and critical writing. Throughout the course, there is an intense focus on writing and revising expository, analytical, and argumentative essays to prepare students for a broad range of writing purposes.

AP Lit & Comp 12* (ED)	Honors 1 credit	Grade 12 Full Year
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Prerequisites: English 11 with a grade of "B" or better &/or permission of instructor.

This course is designed to be a college/university-level course. This course equips students to critically analyze all forms of literature in order to comment insightfully about an author's or genre's use of style or literary device. Students will also interpret meaning based on form; examine the trademark characteristics of literary genres and periods; and critique literary works through expository, analytical, and argumentative essays. As students consider styles and devices, they will apply them to their creative writing. In addition to exposing students to college-level English course work, this course prepares them for the AP English Literature and Composition Exam.

Ess. of Comm (ED, OW)	Elective .5 credit	Grade 12 Semester
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Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, this course offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students enrolled in this one-semester course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication.

Social Studies

All students must successfully complete the standards found in American History, Government, Economics, and World History.

Course #	Course Title	Platform	Type	Grade Level	Standard Seat Time
LVS-SOC201	U.S. History/Geography	ED,OW	R	9-12	Full Year
	AP U.S. History	ED	H	11	Full Year
LVS-SOC301	Government	ED, OW	R	10-12	1 Semester
	AP Government	ED	H	11	1 Semester
LVS-SOC302	Economics	ED, OW	R	9-12	1 Semester
LVS-SOC101	World History	ED, OW	R	9-12	Full Year
LVS-SOC531	AP World History	ED	H	11	Full Year
LVS-SOC561	Psychology	ED, OW	E	10-12	Full Year
	AP Psychology	ED	H	10-12	Full Year
LVS-SOC662	Sociology	ED, OW	E	10-12	1 Semester

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 ED - Edgenuity OW - Odysseyware

US History (ED, OW)	Required 1 credit	Grades 9 - 12 Full Year
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This course examines the major events and turning points of U.S. history from the Industrial Revolution through the modern age. The course leads students toward a clearer understanding of the patterns, processes, and people that have shaped U.S. history. As students progress through each era of modern U.S. history, they will study the impact of dynamic leadership and economic and political change on our country's rise to global prominence.

Social Studies

AP US History (ED)	Honors 1 credit	Grades 12 Full Year
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Prerequisite: U.S. History,, minimum 3.0 in SS & Language Arts, Teacher Approval

This course surveys the history of the United States from the settlement of the New World to modern times and prepares students for the AP United States History Exam. The course emphasizes themes such as national identity, economic transformation, immigration, politics, international relations, geography, and social and cultural change. Students learn to assess historical materials, weigh the evidence and interpretations presented in historical scholarship, and analyze and express historical understanding in writing.

Government (ED, OW)	Required .5 credit	Grades 9 - 12 1 Semester
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This 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 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.

AP Government (ED)	Honors .5 credit	Grade 12 1 Semester
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Prerequisite: Teacher Approval/3.0 in SS

This one-semester college-level course is designed to prepare students for the AP United States Government and Politics exam. Students will study the Constitutional underpinnings and structure of the United States government, issues of politics and political parties, and topics in civil rights and public policy, demonstrating their understanding and acquisition of skills through written work, project-based activities, and practice exams.

Economics (ED, OW)	Required .5 credit	Grades 9 - 12 1 Semester
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Prerequisite: Permission of instructor for 9th grade.

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.

Social Studies

World History (ED, OW)	Required 1 credit	Grades 9 - 12 Full Year
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This 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 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.

AP World History (ED)	Honors 1 credit	Grade 11 Full Year
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Prerequisite: World History; Teacher Approval

This advanced study of world history explores historical themes common to societies around the world and across time periods, from 1200 to the present day. Emphasis is placed on document analysis, historical thinking skills, reasoning processes, and essay writing. Students will demonstrate their understanding and acquisition of skills through written work, document-based questions, project based activities, and practice exams.

Psychology (ED, OW)	Elective 1 credit	Grades 10 -12 Full Year
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This two-semester course introduces high school students to the study of psychology and helps them master fundamental concepts in research, theory, and human behavior. Students analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological, psychosocial, and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field. Course components include an introduction to the history, perspectives, and research of psychology; an understanding of topics such as the biological aspects of psychology, learning, and cognitive development; the stages of human development; aspects of personality and intelligence; the classification and treatment of psychological disorders; and psychological aspects of social interactions.

AP Psychology (ED)	Elective 1 credit	Grades 10 -12 Full Year
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Prerequisite: Introduction to Psychology; Teacher Approval/3.0 in SS & Science

Psychology will introduce students to the systematic study of the behavior and mental processes of human means and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major fields within psychology. Students also learn about the methods psychologists use in their science and practice. The major aim of this course is to provide each student with a learning experience equivalent to that obtained in most introductory college psychology courses. In addition, this course has been designed to help students successfully achieve a passing score on the AP® Psychology exam.

Social Studies

Sociology (ED, OW)	Elective .5 credit	Grades 10 -12 1 Semester
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Providing insight into the human dynamics of our diverse society, this is an engaging, one-semester course that delves into the fundamental concepts of sociology. This interactive course, designed for high school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior, both historically and in modern times.

Science

All students must successfully complete the standards found in Physical Science, Biology, plus one additional year of science, which may be substituted by a CTE course.

Course #	Course Title	Platform	Type	Grade Level	Course Length
LVS-SCI101/102	Physical Science	ED, OW	R	9-12	Full Year
LVS-SCI201/202	Biology A/B	ED, OW	R	10-12	Full Year
	AP Biology	ED	H	11	Full Year
LVS-SCI311	Chemistry in the Community	ED, OW	E	10-12	Full Year
LVS-SCI301/302	Chemistry	ED, OW	E	10-12	Full Year
LVS-SCI401/402	Physics	ED, OW	E	10-12	Full Year
LVS-SCI410/411	Earth Science	ED, OW	E	9-12	Full Year
LVS-SCI501	Environmental Science	ED, OW	E	10-12	Full Year
	AP Environmental Science	ED	H	12	Full Year
	Astronomy	ED	E	10-12	1 Semester
	Forensics Science I*	ED	E	11-12	1 Semester
	Forensics Science II*	ED	E	11-12	1 Semester
	Marine Science*	ED	E	11-12	1 Semester
	Agriscience I*	ED	E	11-12	1 Semester
	Agriscience II*	ED	E	11-12	1 Semester

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math

*Online teacher/must finish course on time ED - Edgenuity OW - Odysseyware

Science

Physical Science (OW, ED)	Required 1 credit	Grades 9 - 12 Full Year
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This course is separated into two main content areas – Physics and Chemistry. Physics topics will include forces and motion, the electromagnetic spectrum, and waves. Chemistry topics will include atomic structure, properties and introduction of matter and the periodic table.

Biology (OW, ED)	Required 1 credit	Grades 10 - 12 Full Year
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Biology is the study of life science. This course is an introduction to biology and its basic principles. The topics that will be explored include cellular biology, genetics, evolution, diversification and classification of living things, and major concepts in environmental science and ecology.

AP Biology (ED)	Honors 1 credit	Grades 11 Full Year
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Prerequisite: Biology

This yearlong, college-level course is designed to prepare students for the Advanced Placement (AP) Biology exam. Units of study include Biochemistry, Cells, Enzymes and Metabolism, Cell Communication and Cell Cycle, Gene Expression, Evolution and Genetic Diversity, and Ecology. This course includes student guides and materials lists for required hands-on labs; these materials are not included in the course.

Chemistry (OW, ED)	Elective 1 credit	Grades 10 - 12 Full Year
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Prerequisite: Completion of Algebra I and Biology

Chemistry is the study of matter, its properties, its composition, and how and why it reacts and changes. In this course, you will learn how chemistry relates to you and the world around you. Additional topics include dimensional analysis, trends of the periodic table, chemical compounds, chemical equations, and stoichiometry.

Physics (OW, ED)	Elective 1 credit	Grades 10 - 12 Full Year
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Prerequisite: Completion of Algebra I and Biology

Physics is the study of the principles and processes that are the foundation of all sciences. Topics covered are: mechanics (how and why things move), wave energy (including light and sound), and modern physics (including relativity). This course will be covering physics in a “conceptual” nature. Physics will stress hands on activities, labs, and learning by doing. This course provides knowledge into all of the essential physics standards as outlined by the State of Michigan.

Science

Enviro Science (ED)	Elective 1 credit	Grades 10 - 12 Full Year
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This course offers compelling lessons that cover many aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Through unique activities and material, students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments.

AP Enviro Science* (ED)	Honors 1 credit	Grades 10 - 12 Full Year
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This is a laboratory- and field-based course designed to provide students with the content and skills needed to understand the various interrelationships in the natural world, to identify and analyze environmental problems, and to propose and examine solutions to these problems. Since this is an online course, the laboratory- and field-based activities will be completed virtually and via experiments that students can easily perform at home with common materials. The course is intended to be the equivalent of a one-semester, college-level ecology course, which is taught over a full year in high school. The course encompasses human population dynamics, interrelationships in nature, energy flow, resources, environmental quality, human impact on environmental systems, and environmental law.

Astronomy (ED)	Elective .5 Credit	Grades 10 - 12 1 Semester
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Prerequisites: Successful completion of Biology and Physical Science.

This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students will examine the life cycle of stars, the properties of planets, and the exploration of space.

Forensic Science I* (ED)	Elective .5 Credit	Grades 11 - 12 1 Semester
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Prerequisites: Successful completion of Biology and Physical Science.

The course emphasizes laboratory and application experiences while students learn modern forensic methodologies invoking the application of the scientific method to solve forensic investigations. Topics of study include observation skills, crime scene investigation and evidence collection, study of hair, fibers, and fabrics, fingerprinting, handwriting analysis, blood and blood spatter, DNA profiling, forgery and counterfeiting.

Science

Forensic Science II* (ED)	Elective .5 Credit	Grades 11 - 12 1 Semester
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Prerequisites: Successful completion of Forensic Science I.

This course focuses on the analysis of evidence and testing that takes place within this setting. We will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined.

Marine Sci* (ED)	Elective .5 Credit	Grades 11 - 12 1 Semester
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Prerequisites: Successful completion of Biology and Physical Science.

Have you wondered about the secrets of the deep and how the creatures below the ocean's surface live and thrive? Understand more about the aquatic cycles, structures, and processes that generate and sustain life in the sea.

Agriscience I* (ED)	Elective .5 Credit	Grades 11 - 12 1 Semester
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Prerequisites: Successful completion of Biology and Physical Science.

Students will learn more about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students will also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.

Agriscience II* (ED)	Elective .5 Credit	Grades 11 - 12 1 Semester
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Prerequisites: Successful completion of Agriscience I..

In Agriscience II, you'll build on your existing knowledge of plant science and delve deeper into important areas such as soil science and weed management. You'll learn more about horticulture and plant science trends from creating hybrid species to growing edible plants in unlikely places.

Mathematics

Students must successfully complete the standards found in Algebra, Geometry, and Algebra II. All students are required to have a mathematics course their senior year.

Course #	Course Title	Platform	Type	Grade Level	Course Length
LVS-MTH101	Algebra	ED, OW	R	9-12	Full Year
	Honors Algebra	ED	H	9-12	Full Year
LVS-MTH201	Geometry	ED, OW	R	9-12	Full Year
	Honors Geometry	ED	H	9-12	Full Year
LVS-MTH301	Algebra II	ED, OW	R	10-12	Full Year
	Honors Algebra II	ED	H	10-12	Full Year
LVS-MTH090	Pre-Algebra	ED	M	9-12	Full Year
LVS-MTH401	Pre-Calculus	ED, OW	M	10-12	Full Year
	Honors Pre-Calculus	ED	M	10-12	Full Year
LVS-MTH311	Trigonometry	ED, OW	M	10-12	1 Semester
LVS-MTH109	Money Matters	OW	M	11-12	Full Year
LVS-MTH420	Personal Finance	ED	M	11-12	Full Year
LVS-MTH460	Financial Math	ED	M	11-12	Full Year
	AP Calculus*	ED, OW	H	11-12	Full Year
LVS-MTH360	Statistics & Probability	ED, OW	M	11-12	Full Year
	AP Statistics	ED	H	12	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 *Online Teacher/must finish on time ED - Edgenuity OW - Odysseyware

Algebra (ED, OW)	Required 1 credit	Grades 9 - 12 Full Year
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This course is a traditional approach to Algebra. Topics include solving equations, simplifying rational expressions, multiplying binomials and trinomials, factoring polynomials, inequalities, graphing, statistics, probability, constructive response questions and critical thinking skills. The goal is to prepare the student for future math courses, and to teach the student the necessary skills to be successful on the state assessment test.

Honors Alg (ED)	Honors 1 credit	Grades 9 - 12 Full Year
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The course builds upon the basic concepts of functions to include transformations of linear and non-linear functions. Students deepen their understanding of quantitative reasoning, piecewise functions, and quadratic functions through performance tasks. The additional performance-based skills allow the honors students to apply more of the concepts taught in the course. The course concludes with students analyzing data through displays and statistical analysis.

Mathematics

Geometry (ED, OW)	Required 1 credit	Grades 9 - 12 Full Year
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Prerequisite: Algebra.

This course is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions. It includes the study of transformations and right triangle trigonometry. Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed. It also emphasizes writing proofs to solve (prove) properties of geometric figures.

Honors Geometry (ED)	Honors 1 credit	Grades 9 - 12 Full Year
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Prerequisite: Honors Algebra

The course continues with an in-depth look at triangles where students prove theorems, relating congruency and similarity in terms of transformations, and connecting right triangles relationships to trigonometry. Students study set theory and apply probability through theoretical and experimental probability, two-way tables, and combinations and permutations. With lessons pertaining to quadrilaterals, students can identify the various figures based on their key features. Within the circles units, students identify angles, radii, and chords, perform a performance-based task on tangents, and then compute the circumference and area of various circles. Then students study parabolas, ellipses and hyperbolas before modeling and computing two- and three-dimensional figures.

Algebra II (ED, OW)	Required 1 credit	Grades 10 - 12 Full Year
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Prerequisite: Geometry

This course is designed to build on algebraic and geometric concepts at a collegiate pace. It develops advanced algebra skills including types of functions; quadratic, exponential, logarithmic, trigonometric, and rational. Other topics include permutations, combinations, statistics and probability, matrices, and conic sections.

Honors Algebra II (ED)	Honors 1 credit	Grades 10 - 12 Full Year
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The course begins with a review of concepts that will assist students throughout the course, such as literal equations, problem solving, and word problems. Students then progress to a unit on functions where students compute operations of functions, compose of functions, and study inverses of functions. To build on their algebraic skills, students learn about complex numbers and apply them to quadratic functions via completing the square and quadratic formula methods. Next, students solve linear systems and apply their knowledge of the concept to three-by-three systems. An in-depth study on polynomial operations and functions allow students to build their knowledge of polynomials algebraically and graphically. In the second semester, students study nonlinear functions. Students solve and graph rational and radical functions whereas the exponential and logarithmic functions focus on the key features and transformations of the functions. Expected value and normal distribution concepts expand and deepen students' knowledge of probability and statistics. Students also cover trigonometric functions and periodic phenomena

Mathematics

Pre Calculus (ED, OW)	Elective 1 credit	Grades 10 - 12 Full Year
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Prerequisite: Successful completion of Algebra II

With an emphasis on function families and their representations, Precalculus is a thoughtful introduction to advanced studies leading to calculus. The course briefly reviews linear equations, inequalities, and systems and moves purposefully into the study of functions. Students then discover the nature of graphs and deepen their understanding of polynomial, rational, exponential, and logarithmic functions. Scaffolding rigorous content with clear instruction, the course leads students through an advanced study of trigonometric functions, matrices, and vectors. The course concludes with a short study of probability and statistics.

AP Calculus (ED, OW)	Elective 1 credit	Grades 11 - 12 Full Year
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Prerequisite: Successful completion of Pre-Calculus.

This college-level, yearlong course prepares students for the Advanced Placement (AP) Calculus AB Exam. Major topics of study in this full-year course include a review of pre-calculus, limits, derivatives, definite integrals, mathematical modeling of differential equations, and the applications of these concepts. Emphasis is placed on the use of technology to solve problems and draw conclusions. The course utilizes a multi-representative approach to calculus with concepts and problems expressed numerically, graphically, verbally, and analytically.

Stats/Prob (ED, OW)	Elective 1 credit	Grades 11 - 12 Full Year
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The first half of the course begins with an in-depth study of probability and an exploration of sampling and comparing populations and closes with units on data distributions and data analysis. In the second half of the course, students create and analyze scatter plots and study two-way tables and normal distributions. Finally, students apply probability to topics such as conditional probability, combinations and permutations, and sets.

AP Stats/Prob (ED)	Honors 1 credit	Grade 12 Full Year
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Prerequisites: Algebra II/Trig

This yearlong, college-level course is designed to prepare students for the Advanced Placement (AP) Statistics exam. Major topics of study include exploring one-and two-variable data, sampling, experimentation, probability, sampling distributions, and statistical inference. These topics are organized into three big ideas: variation and distribution, patterns and uncertainty, data-based predictions, decisions, and conclusions.

Mathematics

Pre-Algebra (ED)	Elective 1 credit	Grades 9 - 12 Full Year
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This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in numbers and operations, expressions and equations, ratios and proportions, and basic functions.

Financial Math (ED)	Elective 1 credit	Grades 11 - 12 Full Year
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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.

Money Matters (OD)	Elective 1 credit	Grades 11 - 12 Full Year
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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.

Foreign Language

According to the Michigan Merit Curriculum beginning with the Class of 2016 students will need to successfully complete two credits of a language other than English in grades 9-12; OR an equivalent learning experience in grades K-12 prior to graduation. As part of a college preparatory program we recommend that students take at least three (3) credits in a foreign language. These courses are available to both part-time homeschool students and full time students.

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVS-SPN101	Spanish I	ED, OW	R	9-12	Full Year
LVS-SPN201	Spanish II	ED, OW	E	9-12	Full Year
LVS-SPN301	Spanish III	ED, OW	E	10-12	Full Year
LVS-FRE101	French I	ED, OW	R	9-12	Full Year
LVS-FRE201	French II	ED, OW	E	9-12	Full Year
LVS-FRE301	French III	ED	E	10-12	Full Year
LVS-GER101	German I*	ED	R	9-12	Full Year
	German II*	ED	E	9-12	Full Year
	Chinese I*	ED	R	9-12	Full Year
	Chinese II*	ED	E	9-12	Full Year
LVS-LAT101	Latin I*	ED	R	9-12	Full Year
	Latin II*	ED	E	9-12	Full Year
LVS-ASL101	American Sign Language I*	ED	R	9-12	Full Year
	American Sign Language II*	ED	E	9-12	Full Year

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 *Online Teacher/must be completed on time ED - Edgenuity OW - Odysseyware

Spanish I (ED, OW)	Required 1 credit	Grades 9 - 12 Full Year
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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, a new vocabulary theme and grammar concept, 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

Spanish II (ED, OW)	Elective 1 credit	Grades 9 - 12 Full Year
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Prerequisite: Spanish I

Students 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major Spanish-speaking areas in Europe and the Americas, and assessments.

Foreign Language

Spanish III (ED, OW)	Elective 1 credit	Grades 10 - 12 Full Year
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Prerequisite: Spanish II

Students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in Spanish and respond orally or in writing to these works. Continuing the pattern and building on what students encountered in the first two years, each unit consists of a new vocabulary theme and grammar concept, 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.

French I (ED, OW)	Required 1 credit	Grades 9 - 12 Full Year
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Students begin their introduction to French 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

French II (ED, OW)	Elective 1 credit	Grades 9 - 12 Full Year
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Prerequisite: French I

Students continue their introduction to French in this second year, high school language course with review of 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major French speaking areas across the globe, and assessment

French III (ED)	Elective 1 credit	Grades 10 - 12 Full Year
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Prerequisite: French II

Students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in French and respond orally or in writing to these works. Continuing the pattern and building on what students encountered in the first two years, each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and the Americas.

Foreign Language

German I* (ED)	Required 1 credit	Grades 9 - 12 Full Year
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Students begin their introduction to German 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe

German II* (ED)	Elective 1 credit	Grades 9 - 12 Full Year
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Prerequisite: German I

Students continue their introduction to high school German in this second-year course with review of 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

Chinese I* (ED)	Required 1 credit	Grades 9 - 12 Full Year
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Students begin their introduction to Chinese 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

Chinese II * (ED)	Elective 1 credit	Grades 9 - 12 Full Year
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Prerequisite: Chinese I

Students continue their introduction to Chinese in this second-year course with review of 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, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

Foreign Language

Latin I* (ED)	Required 1 credit	Grades 9 - 12 Full Year
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Students begin their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

Latin II* (ED)	Elective 1 credit	Grades 9 - 12 Full Year
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Prerequisite: Latin I

Students continue their introduction to Latin by continuing to cover the fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, a notable ancient myth in Latin, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

Amer. Sign Lang. I* (ED)	Required 1 credit	Grades 9 - 12 Full Year
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Students will be introduced to vocabulary and simple sentences, so that they can start communicating right away. Importantly, they will explore Deaf culture: social beliefs, traditions, history, values and communities influenced by deafness. The second semester will introduce students to more of this language and its grammatical structures.

Amer. Sign Lang. II* (ED)	Elective 1 credit	Grades 9 - 12 Full Year
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Prerequisite: ASL I

Students will build on the skills they learned in American Sign Language 1 and explore the long and rich history of Deaf culture and language. They will expand their knowledge of the language as well as their understanding of the world in which it is frequently used. Students will grow their sign vocabulary and improve their ability to interact using facial expressions and body language. They will also learn current trends in technology within ASL as well as potential education and career opportunities.

Physical Education

Students must successfully complete the standards found in the Physical Education and health courses. These courses are available to part-time homeschool students and full time students.

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVS-HPE130	Physical Education	ED, OW	R	9-12	1 Semester
LVS-HPE120	Health	ED, OW	R	9-12	1 Semester

R – Required E – Elective H – Honors S – STEM V – VPAA M – 4th Year Math
 ED - Edgenuity OW - Odysseyware

Physical Education (ED, OW)	Required .5 credit	Grades 9 - 12 1 Semester
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Students explore fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management. Students assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design fitness programs to meet their individual fitness goals.

Health (ED, OW)	Required .5 credit	Grades 9 - 12 1 Semester
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Students will learn about a variety of health topics. These topics include alcohol, tobacco, and drugs, nutrition and physical activity, sex education, mental health, personal/community health, and prevention and safety. These topics are aligned to the state requirements.

Visual, Performing, & Applied Arts

The VPAA curriculum offers classes in art, music, technology and career technical education. The State of Michigan requires each student to fulfill at least 1 credit of VPAA as a condition of graduation.

These courses are available to part-time homeschool students and full time students. VPAA are a valuable and integral part of the developmental processes of the well-rounded individual. They are the primary means of perceiving, of learning, of knowing, and of feeling, as well as aiding in the development of essential critical thinking skills.

<u>Course #</u>	<u>Course Title</u>	<u>Platform</u>	<u>Type</u>	<u>Grade Level</u>	<u>Course Length</u>
LVS-ART601	Art History I	ED	V	9-12	1 Semester
	Advertising and Sales Promotion	ED	V	10-12	1 Semester
	Computer Applications: Office 2016	ED	V	10-12	Full Year
	Health Science Concepts	ED	V	10-12	Full Year
LVS-ART101	Intro to Art	ED	V	11-12	1 Semester
LVS-BUS101	Intro to Business	ED	V	10-12	Full Year
	Intro to Coding	ED	V	11-12	1 Semester
LVS-VOC150	Intro to Health Science	ED	V	10-12	1 Semester
LVS-TEC100	Intro to Information Technology	ED	V	10-12	1 Semester
	Journalism: Investigating the Truth	ED	V	10-12	1 Semester
LVS-SCI650	Medical Terminology	ED	V	10-12	1 Semester
	Microsoft Office Specialist	ED	V	10-12	Full Year
LVS-MUS110	Music Appreciation: The Enjoyment of Listening	ED	V	10-12	1 Semester
LVS-MUS130	Music Theory	OW	V	10-12	1 Semester
LVS-654/655	Nursing Assistant	ED	V	10-12	Full Year
LVS-656/657	Pharmacy Technician	ED	V	10-12	Full Year
	Power, Structural and Technical Systems	ED	V	11-12	1 Semester
	Business Law	ED	V	11-12	1 Semester
	Banking Services Careers	ED	V	11-12	1 Semester
	Marketing and Sales for Tourism and Hospitality	ED	V	11-12	1 Semester
	Sustainable Service Management for Hospitality and Tourism	ED	V	11-12	1 Semester
	Family and Community Services	ED	V	11-12	1 Semester
	Introduction to Human Services	ED	V	11-12	1 Semester

R – Required

E – Elective

H – Honors

S – STEM

V – VPAA

M – 4th Year Math

ED - Edgenuity

OW - Odysseyware

Visual, Performing, & Applied Arts

Art History (ED)	VPAA 1 credit	Grades 10 -12 Full Year
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Students will master the basic art history elements of the Western world, from prehistoric to modern times. Students will explore art exhibits, analyze buildings and architecture, and examine art in everyday life. Upon completion of the course, students will be able to describe art history, examine art from 22,000 BC through 400 AD, distinguish art from 401 AD through 1450 AD, and analyze art from 1451 AD through 1800 AD. They will also be able to categorize art from 1801 AD through 1900 AD and interpret art from 1901 AD through the present.

Advertising and Sales Promotion (ED)	VPAA .5 Credit	Grades 10-12 1 Semester
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Experts estimate that by the time you turn 65, you will have seen nearly 2 million TV commercials, not to mention radio ads, billboards, and online advertisements. You're familiar with what it's like on the receiving end of a company's marketing efforts, but what's it like on the other side? In this Advertising and Sales Promotions course, you'll learn how marketing campaigns, ads, and commercials are conceived and brought to life. You'll meet some of the creative men and women who produce those memorable ads and commercials. And you'll discover career opportunities in the field to help you decide if a job in this exciting, fast-paced industry is in your future.

Computer Applications Office 2016 (ED)	VPAA 1 credit	Grades 10 -12 Full Year
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Students are introduced to the features and functionality of the most widely used productivity software in the world: Microsoft® Office®. Through video instruction, interactive skill demonstrations, and numerous hands-on practice assignments, students learn to develop, edit and share Office 2016 documents for both personal and professional use. By the end of this course, students will have developed basic proficiency in the most common tools and features of the Microsoft Office suite of applications: Word®, Excel®, PowerPoint®, and Outlook®.

Health Science Concepts (ED)	VPAA 1 credit	Grades 10 -12 Full Year
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Students are introduced to the fundamental concepts of anatomy and physiology—including the organization of the body, cellular functions, and the chemistry of life. As they progress through each unit, students learn about the major body systems, common diseases and disorders, and the career specialties associated with each system. Students investigate basic medical terminology as well as human reproduction and development. Students are introduced to these fundamental health science concepts through direct instruction, interactive tasks, and practice assignments. This course is intended to provide students with a strong base of core knowledge and skills that can be used in a variety of health science career pathways.

Visual, Performing, & Applied Arts

Intro to Art (ED)	VPAA .5 credit	Grades 10 -12 1 Semester
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Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, Intro to Art 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.

Intro to Business (ED)	VPAA 1 credit	Grades 10 -12 Full Year
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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 different business types. Students are introduced to techniques for managing money, personally and as a 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.

Intro to Information Technology (ED)	VPAA .5 credit	Grades 10 -12 1 Semester
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This course introduces students to the essential technical and professional skills required in the field of Information Technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological Microsoft, Word, Excel, PowerPoint, Outlook, and Office are registered trademarks of Microsoft Corporation in the United States and/or other countries. Python is a registered trademark of the Python Software Foundation. Adobe and Illustrator are registered trademarks of Adobe Systems Incorporated in the United States and/or other countries. Audacity is a registered trademark of Dominic Mazzoni. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT.

Intro to Coding (ED)	VPAA .5 credit	Grades 10 -12 1 Semester
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Intro to Coding covers a basic introduction to the principles of programming, including algorithms and logic. Students engage in hands-on programming tasks in the Python programming language as they write and test their own code using the approaches real programmers use in the field. Students will program with variables, functions and arguments, and lists and loops, providing a solid foundation for more advanced study as well as practical skills they can use immediately.

Visual, Performing, & Applied Arts

Intro to Health Science (ED)

VPAA
.5 credit

Grades 10 -12
1 Semester

Students are introduced to a variety of healthcare careers, as they develop the basic skills required in all health and medical sciences. In addition to learning the key elements of the U.S. healthcare system, students learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the healthcare field.

Journalism: Investigating the Truth (ED)

VPAA
.5 credit

Grades 10 -12
1 Semester

If you're the first to know what's going on in your school or town, or the first to post on Facebook or Instagram about your favorite TV shows or favorite celebrities, then you're just the person that every online, in-print, and broadcast news outlet is looking for. And Journalism: Investigating the Truth is the perfect course for you! In this course, you'll learn how to write a lead that grabs your readers, how to write engaging news stories and features, and how to interview sources. You'll also learn about the history of journalism, how to succeed in the world of social media news, and how to turn your writing, photography, and people skills into an exciting and rewarding career.

Medical Terminology (ED)

VPAA
.5 credit

Grades 10 -12
1 Semester

Students are introduced to the structure of medical terms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to health care settings, medical procedures, pharmacology, human anatomy and physiology, and pathology. The knowledge and skills gained in this course provide students entering the healthcare field with a deeper understanding of the application of the language of health and medicine. Students are introduced to these skills through direct instruction, interactive tasks, practice assignments, and unit-level assessments.

Microsoft Office Specialist (ED)

VPAA
1 credit

Grades 10 -12
Full Year

Students are introduced to the features and functionality of Microsoft® Office® 2016 while preparing them for the beginning, intermediate, and advanced levels of the Microsoft User Specialist (MOS) certification program. Through video instruction, interactive skills demonstrations, practice assignments, and unit-level assessments, students become proficient in Microsoft Word®, Excel®, PowerPoint®, Outlook®, and Access®. By the end of the course, students are prepared to demonstrate their skills by obtaining one or more MOS certifications.

Music Appreciation (ED)

VPAA
.5 credit

Grades 10 -12
1 Semester

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

Visual, Performing, & Applied Arts

Music Theory (ED)

**VPAA
.5 credit**

**Grades 9 -12
1 Semester**

Students will explore the nature of music, integrating the key concepts of rhythm and meter, written music notation, the structure of various scale types, interval qualities, melody and harmony, the building of chords, and transposition. Throughout the series of assignments, ear training exercises are interspersed with the bones of composition technique, building in students the ability not only to hear and appreciate music, but step-by-step, to create it in written form as well. This highly interactive course culminates in the students producing original compositions, which while based on standard notation, demonstrate facets of personal expression. As the students' ability to perform increases in the future, they will better understand music and therefore better demonstrate its intrinsic communication of emotion and ideas.

Nursing Assistant (ED)

**VPAA
1 credit**

**Grades 10 -12
Full Year**

Students are prepared to provide and assist with all aspects of activities of daily living and medical care for the adult patient in hospital, long-term care, and home settings. Medical terminology and procedures, legal and ethical responsibilities, safe and efficient work, gerontology, nutrition, emergency skills, and employability skills will be covered.

Pharmacy Technician (ED)

**VPAA
1 credit**

**Grades 9 -12
Full Year**

This course covers the skills needed for the pharmacy technician field. Students learn the basics of pharmacy assisting, including various pharmacy calculations and measurements, pharmacy law, pharmacology, medical terminology and abbreviations, medicinal drugs, sterile techniques, USP 795 and 797 standards, maintenance of inventory, patient record systems, data processing automation in the pharmacy, and employability skills.

Power, Structural and (ED) Technical Systems

**VPAA
.5 credit**

**Grades 11 -12
1 Semester**

This semester-length high school course provides students with an understanding of the field of agriculture power and introduces them to concepts associated with producing the food and fiber required to meet today's and tomorrow's needs. Students are given the opportunity to explore agriculture machinery, as well as structures and technological concepts. They also learn about the historical changes in agriculture and how agriculture has changed to meet the needs of the future world population. Students are introduced to machinery, structures, biotechnology, and ethical and professional standards applicable to agriculture power

Visual, Performing, & Applied Arts

Business Law (ED)	VPAA	Grades 11-12
	.5 credit	1 Semester

This semester-long high school course is designed to provide students with the knowledge of some of the vital legal concepts that affect commerce and trade, after first gaining some familiarity with how laws are created and interpreted. Students are then introduced to the types of businesses that can be created as well as the contractual and liability considerations that can impact a business. Laws that affect how a business is regulated are reviewed, particularly the impact of administrative rules and regulations on a business. Global commerce and international agreements, treaties, organizations, and courts are discussed to get a better sense of what it means to “go global” with a business. Dispute resolution strategies are also addressed.

Banking Services Careers (ED)	VPAA	Grades 11-12
	.5 credit	1 Semester

Banking Services Careers is a semester-long high school course that provides an overview of how the banking system works, what the Federal Reserve is, and the technical and social skills needed to work in banking and related services. Students explore career paths and the required training or higher education necessary and gain an understanding of the basic functions of customer transactions (e.g., setting up an account, processing a loan, establishing a business), cash drawer activity, check collection processes, and other customer service–related transactions. This course also discusses how technology has changed banking in the 21st century. The banking industry is responsible for many of the products that we use on a daily basis, from checking

Marketing and Sales for (ED)	VPAA	Grades 11-12
Tourism and Hospitality	.5 credit	1 Semester

This semester-long course is designed as an introduction to the study of tourism and hospitality marketing and sales. Students are introduced to marketing theory and application of the basic principles of marketing as applied in hospitality and tourism. The relationship between marketing and other functions such as advertising, sales techniques, and public relations to maximize profits in a hospitality organization is addressed. Students have an opportunity to explore this multifaceted world, identifying multiple career paths and opportunities.

Sustainable Service Management	VPAA	Grades 11-12
for Hospitality and Tourism (ED)	.5 credit	1 Semester

This comprehensive semester-long course covers the principles and practices of sustainable service management. The purpose of this course is to provide students with an understanding of socially, environmentally, and financially sustainable hospitality management. The course provides a sustainable approach to service management, incorporating the role of the customer, employee, leaders, and the environment. After successful completion of this course, students understand and are able to explain the fundamentals of sustainability in the hospitality industry.

Visual, Performing, & Applied Arts

Family and Community Services (ED)	VPAA .5 credit	Grades 11-12 1 Semester
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Family and Community Services is a high school semester-long course that introduces applications within professions related to family and community services. Students identify degree and credential requirements for occupations in this pathway and identify individual, social, historical, economic, and cultural context to increase awareness of family and community services. Students develop the abilities necessary to evaluate and identify a range of effective communication strategies and skills for establishing a collaborative relationship with others. Students also complete a variety of projects to apply their skills and knowledge. Units are divided among career fields: Social Workers Emergency Management and Planners, Therapists and Treatment Specialists, Education and Childcare.

Introduction to Human Services (ED)	VPAA .5 credit	Grades 11-12 1 Semester
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This semester-long course introduces high school students to the possibilities for careers in the human services professions. Through anecdotes, lessons, and a variety of assignments and projects, students learn about the broad variety of jobs available in the human services. These begin with entry-level positions, such as associate social workers, that require a two-year Associate of Arts degree. Students also learn ethics and philosophies of the helping professions. The history of the profession, as well as the impact of the cultural, social, and economic environment on individual people, especially those who need social services assistance, is also explored.

Career Technical Education

Tenth, eleventh, and twelfth grade part-time homeschool students or full-time students enrolled in any of the nine DCTC districts can take any career and technical education program offered by any of the nine-member high schools. Transportation is provided to all programs, unless otherwise noted in the program description. All programs, unless otherwise noted, are two-year programs intended to be started at the beginning of the junior year and completed during the senior year. Many of our programs allow students to earn college credit while still in high school through articulation agreements with local colleges.

Course #	Course Title		Grade Level	Standard Seat Time
120AT	Agriscience I (Zoology)	V	11-12	Full Year
122AT	Agriscience II (Botany)	V	11-12	Full Year
810AT	Architectural Drafting CAD I	V	11-12	Full Year
812AT	Architectural Drafting CAD II	M; V	11-12	Full Year
210HU	Auto Collision Repair I	V	11-12	Full Year
212HU	Auto Collision Repair II	M; V	12	Full Year
220HU	Automotive Service Technology I	V	11-12	Full Year
222HU	Automotive Service Technology II	M; V	12	Full Year
310GI (WCCC Northline Campus)	Aviation Technology I	V	11-12	Full Year
312GI (Canton)	Aviation Technology II	M; V	12	Full Year
730TN	Cabinet and Furniture Making I	V	11	Full Year
732TN	Cabinet and Furniture Making II	M; V	12	Full Year
	Cybersecurity I	V	11-12	Full Year
	Cybersecurity II	V	12	Full Year
710SGB	Construction Trades I	V	10-12	Full Year
712SGB	Construction Trades II	M; V	11-12	Full Year
SG	Construction Trades I	V	11-12	Full Year
SG	Construction Trades II	M; V	12	Full Year
990WH (MCB-Monroe)	Cosmetology	V	11-12	Full Year
992WH (MCB-Monroe)	Cosmetology II	M;V	12	Full Year
920WH	Dental Occupations I	V	11	Full Year
922WH	Dental Occupations II	M; V	12	Full Year
950GB	Digital Media & Video Productions I	V	10-12	Full Year
952GB	Digital Media & Video Productions II	V	11-12	Full Year
931TN	EMT/Criminal Justice I	V	11-12	Full Year
933TN	EMT/Criminal Justice II	M; V	12	Full Year
820FR	Engineering Drafting CAD I	V	11	Full Year
822FR	Engineering Drafting CAD II	M; V	12	Full Year
250SG	Graphic Arts I	V	11-12	Full Year
250WH	Graphic Arts I	V	11-12	Full Year
252SG	Graphic Arts II	M; V	12	Full Year
252WH	Graphic Arts II	M; V	12	Full Year
910GI	Health Occupations I	V	11-12	Full Year
910FR	Health Occupations I	V	11-12	Full Year
911GI (HFWH)	Health Occupations I	V	11-12	Full Year
912GI	Health Occupations II-CNA	M	12	Full Year
913GI (HFWH)	Health Occupations II	M	12	Full Year
912FR	Health Occupations II-Pharmacy Tech	M	11-12	Full Year
350RV (HFC)	Heating, Cooling, and Ventilation I	V	11-12	Full Year

352RV (HFC)	Heating, Cooling, and Ventilation II	M; V	12	Full Year
450RV	Hospitality	V	11-12	Full Year
452RV	Hospitality, Advanced	M; V	12	Full Year
560AT	Information Technology	M; V	11 - 12	Full Year
850GI	Introduction to Education I	V	11-12	Full Year
852GI	Introduction to Education II	M; V	12	Full Year
SG	JROTC	V	10-12	Full Year
750GB	Marketing I	V	10-12	Full Year
752GB	Marketing II	V	11-12	Full Year
550HF	Mechatronics	M;V	11 - 12	Full Year
190FR	Welding I	V	11-12	Full Year
192FR	Welding II	M; V	12	Full Year
190WH	Welding I	V	11-12	Full Year
192WH	Welding II	M; V	12	Full Year

DOWNRIVER CAREER TECHNICAL CONSORTIUM

Please note that some courses may provide students with a 4th year math credit and a VPAA credit. These courses will be identified by the following codes:

M – 4th year math credit

V – Visual or performing arts credit

Agriscience I (Zoology)

Grades 11 - 12

120AT (Airport)

Full Year

This class includes a study of domesticated and wild animals. Areas of study include; breed and species origins, systems, nutrition, genetics, disease, use, and current animal issues such as animal rights and welfare. Students will have animal labs (including dissection) and activities to help them understand the animals' body and behaviors. This course will make students aware of career opportunities in the areas of animal science and production.

FFA participation is mandatory and the course has been designed for those students who want a true agriscience experience. FFA participation will develop leadership, cooperation, career, and personal skills which are vital in today's world.

Agriscience II (Botany)

Grades 11 - 12

122AT (Airport)

Full Year

This course will focus on plant parts, function, use, classification and specific forms of plant production. Practical applications in forestry, landscaping, greenhouse production, pesticides, conservation and crop production will illustrate the need and use for plants in our society and environment. Major Natural Resource topics of study include: wildlife, forestry, soil, air, water, minerals and energy sources. This course will make students aware of career opportunities in the areas of plant science and production, natural resources and conservation. Agricultural Business and marketing will also be explored.

FFA participation is mandatory and the course has been designed for those students who want a true Agriscience experience. FFA participation will develop leadership, cooperation, career, and personal skills which are vital in today's world.

Career Technical Education

Architectural Drafting & CAD I 810AT (V) (Airport)	Grades 11 - 12 Full Year
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Prerequisite: Successful completion of math class

Students learn to use traditional drafting tools and the latest computer-aided design (CAD) software to create floor plans, elevations, foundation plans, site plans, pictorials, sections, and details. The curriculum complies with the Michigan Drafting & Design Segments: safety, drawing and classroom procedures, geometric construction, orthographic views, dimensioning & and tolerancing, sections, pictorial drawings, fasteners, residential architecture, descriptive geometry, 3D parametric drawing, leadership and employability skills, assembly and working drawings.

Architectural Drafting & CAD II 812AT (M;V) (Airport)	Grade 12 Full Year
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Prerequisite: Grade of "C" or better in Drafting I and instructor approval

The advanced section will continue to improve on studies learned in Drafting I.

Auto Collision Repair I 210HU (V)	Grade 11 Full Year
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Prerequisite: Metal/woods class, if available, and instructor and counselor approval.

This course is designed for students interested in collision repair as a career choice. The course utilizes the I-car Live Curriculum, which will emphasize skills for entry level jobs, including safety, basic repair techniques, paint safety, undercoat and topcoat systems, HVLP spray gun technology, estimating, and vehicle detailing. The instructor and program are ASE/NATEF certified.

Automotive Service Technology I 220HU (V)	Grade 11 3 Credits
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Prerequisite: A grade "C" or better in Auto Collision I and approval of instructor and counselor.

When a student returns to the Auto collision program, the assumption is made that he or she is very serious about entering the auto body trade as a career. It is, therefore, extremely important that these students work especially hard to gain the skills that will make them competitive. All returning students must review and pass all safety tests. Second-year students will receive training in the basics of refinishing automobiles.

Automotive Service Technology I 220HU (V)	Grade 11 3 Credits
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Prerequisites: C or better in Math & Physical Science

This course is designed to develop student knowledge and skills in basic automotive service and prepare students for Vocational Auto II for advanced study of automotive technology. Students will achieve proficiency in the basic knowledge and performance of automotive service assessed in accordance with NATEF standards (National Automotive Technician Education Federation). Basic units of study include: Automotive electricity and electrical systems, including electronics, brakes and braking systems, steering, suspension and engine performance.

Career Technical Education

Automotive Service Technology II 222HU (M; V)

**Grade 12
Full Year**

Prerequisites: A grade of "C" or better in Automotive Service Technology I and instructor and counselor approval.

Advanced study of automotive service technology designed to further develop students' knowledge and skills. Students learning objectives for this course are to achieve proficiency in the advanced knowledge skills that are necessary to service modern automobiles—assessed in accordance with NATEF standards. Basic units of study include: Automotive electricity and electronics—brakes and braking systems; suspension, steering, and engine performance.

Aviation Technology I 310GI (V) (WCCC-Northline Campus)

**Grade 11-12
Full Year**

Prerequisite: Counselor approval. Algebra and/or related math are required. Good attendance and overall grades are examined. Students must be interviewed by MIAT personnel who will determine admission. Students must provide their own transportation to this program.

This course is designed to give the student the opportunity to learn valuable technical skills while in an aviation based environment. First year aviation students will learn about the necessary building blocks such as: Aircraft Drawings, Tools, Ground Operations, Safety, Federal Aviation Regulations, Weight and Balance, Basic Electricity, Fire Protection, and Fuel Systems.

Aviation Technology II 312GI (M) (Canton)

**Grade 12
Full Year**

Prerequisite: A grade of "C" or better in Aviation Technology I and instructor and counselor approval.

Second year students learn about the different power plants (Reciprocating Engines and Turbine Engines) used in aviation, how they work, how they are made and how to maintain and troubleshoot them. While working toward their FAA certification, students spend three hours per day in a classroom/lab environment learning how aircraft are built and maintained. Students earn college transferable credits accepted by several universities. After they graduate, students are eligible to take their FAA exams to become certified Aircraft Maintenance Technicians.

Cabinet and Furniture Making I 730TN (V) (Trenton)

**Grade 11
Full Year**

Cabinet & Furniture Making I provides entry-level and upgrade training in cabinet/furniture construction and provides students with a broad-based set of skills that is required by the wood products manufacturing industry and that is directly transferable to the manufacturing sector in general. The program also includes state of the art CNC router and cabinetmaking equipment where students will learn how to operate machines to perform the necessary tasks safely and efficiently with a high degree of quality. This course stresses safety as the number one requirement to proper machine operation. The student is provided with training in cabinet and furniture construction skills for making traditional face frame cabinet systems.

Career Technical Education

Cabinet and Furniture Making II 732TN (M;V) (Trenton)	Grade 12 Full Year
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Prerequisite: A grade of "C" or better in Cabinet and Furniture Making I and instructor approval

In Cabinet and Furniture Making II students will have laboratory experience using high performance woodworking machines, do individual machine set-ups, and produce high quality work. Students will be prepared for direct entry into the wood products.

Construction Trades I 720SG (V) (M; V)	Grades 11 - 12 Full Year
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Prerequisite: Students should have a good math foundation and be comfortable using measurements.

This is a course that is designed to prepare students for a career in the extremely diverse Construction Trades field. Not only will this course prepare students for job openings for entry level positions in the fields of Carpentry, Electrical, Plumbing, Masonry, Concrete Placement, and HVAC; it will also be of great benefit to those who wish to pursue careers in the professions of Architecture, Civil Engineering, Surveying, Construction Supervision and Management, Estimating, and careers as Licensed Builders and Renovators. The instructor uses many different methods of instruction that are aimed at achieving topical knowledge, mathematical precision, and physical skills, all in a way that today's students will find rewarding and fun.

Construction Trades I 710GB (V) (M; V)	Grades 10 - 12 Full Year
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Prerequisite: Students should have a good math foundation and be comfortable using measurements.

This is a course that is designed to prepare students for a career in the extremely diverse Construction Trades field. Not only will this course prepare students for job openings for entry level positions in the fields of Carpentry, Electrical, Plumbing, Masonry, Concrete Placement, and HVAC; it will also be of great benefit to those who wish to pursue careers in the professions of Architecture, Civil Engineering, Surveying, Construction Supervision and Management, Estimating, and careers as Licensed Builders and Renovators. The instructor uses many different methods of instruction that are aimed at achieving topical knowledge, mathematical precision, and physical skills, all in a way that today's students will find rewarding and fun.

Construction Trades II 722SG (M; V)	Grades 12 Full Year
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Prerequisite: Instructor approval is required for Construction Trades II.

This advanced level course deals directly with the application of the skills and knowledge needed in Construction by putting the skills and knowledge to use in real residential and commercial building projects. Even though this course is truly "hands-on" in nature, it still delivers academic level knowledge through deeper real life applications. If students complete both Construction Trades I & II, they are awarded a senior year Mathematics credit and a Visual and Performing Arts credit. This program offers articulated credit with several colleges.

Career Technical Education

Construction Trades II 712GB (M; V)

**Grades 12
Full Year**

Prerequisite: Instructor approval is required for Construction Trades II.

This advanced level course deals directly with the application of the skills and knowledge needed in Construction by putting the skills and knowledge to use in real residential and commercial building projects. Even though this course is truly "hands-on" in nature, it still delivers academic level knowledge through deeper real life applications. If students complete both Construction Trades I & II, they are awarded a senior year Mathematics credit and a Visual and Performing Arts credit. This program offers articulated credit with several colleges.

Cosmetology I 990WH (V) (Michigan College of Beauty in Monroe)

**Grades 11-12
Full Year**

Prerequisite: Mandatory orientation and interview required.

Class is held Tuesday through Friday from 12:45 p.m. to 4:30 p.m. and on Saturday from 8:00 a.m. to 4:00 p.m. Students are required to attend class every Saturday. Students will get 750 hours of instruction. After 350 hours, students are allowed to work on clients. Students will acquire a thorough knowledge of: hairstyling, haircutting and shaping, permanent waving, shampoo, hair coloring, manicuring, and facial/scalp treatments.

Cosmetology II 992WH (M;V)(Michigan College of Beauty in Monroe)

**Grades 12
Full Year**

Prerequisite: A grade of "C" or better in Cosmetology I

The successful program completer (750 hours of instruction) will have the necessary skills and training to sit for the State of Michigan Cosmetology licensing examination.

Cybersecurity I & II Carlson

**Grades 11-12
Full Year**

The courses offers a mid-level understanding of the technological needs, threats, and vulnerabilities of hardware, software, operating systems, networks and the Internet. Students will examine operating systems, networks, tools and protocols needed to navigate, use, and manage security technologies as well as gain insight into the legal, social, and political dynamics of the cyber universe. Designed for students interested in cyber defense or IT professionals seeking a fundamental understanding of cybersecurity.

Dental Occupations I 920WH (V) (Woodhaven)

**Grades 11
Full Year**

Prerequisite: Keyboarding, biology, speech, and computer application experience recommended

This course is a combination of subject matter and experience designed to prepare the student to assist the dentist at chair side, to perform reception and clerical functions, and to carry out selected dental laboratory work. Objectives are: (1) to prepare high school students for full-time employment in the dental office occupational area upon completion of the program or to encourage continuing education or training, (2) to provide each student with broad entry skills in a cluster of related jobs. Entry skills include job-finding skills, general work habits, and social attitudes.

Career Technical Education

Dental Occupations II 920WH (M;V) (Woodhaven)

**Grade 12
Full Year**

Prerequisite: A grade of "C" or better in Dental Occupations I and instructor approval.

Dental II is a continuation of Dental I with a concentration in radiography techniques, secretarial dental assisting skills, dental specialties and laboratory procedures. Upon completion the student should be prepared for an entry level position in Dental Assisting and have the necessary skills to continue their education in the dental field.

Digital Media and Video Productions I 950GB (V) (Gibraltar)

**Grade 11
Full Year**

This course is a study of techniques and styles in Television Production with an emphasis on digital DSLR cameras and digital editing. Students will do projects such as a mini movie as a group and individually. Adobe Creative Cloud will be taught. Quizzes and projects will be given throughout the course. Students should be able to shoot and edit video at an intermediate level by the end of class. A certificate of completion will be awarded at the end of this course. The objectives of the class are to learn Adobe Premier and Photoshop software and professional video shooting techniques. Assessment is based on projects, tests, and quizzes. Students should have an entry-level understanding of computers. Student will be required to have interaction with students and be behind the camera often. Students will need to purchase a flash drive of 16 gigs for class purposes. College credit available (ask your counselor).

Digital Media and Video Productions II 952GB (V) (Gibraltar)

**Grade 12
Full Year**

Prerequisite: C or better in Digital Media and Video Productions I.

This course is a study of advanced techniques and styles in Television Production and photography with an emphasis on DSLR cameras and digital editing. Students will do projects in a small group and individually. Adobe Creative Cloud will be taught. Quizzes and projects will be given throughout the course. Student should be able to shoot and edit video at an advanced level by the end of class. Students will be required to show strong editing and shooting skills. A certificate of completion will be awarded at the end of this course. The objectives of the class are to master Premier Pro software and professional video shooting techniques. Assessment is based on projects, tests, and quizzes. Students should already have a good understanding of computers.

EMT/Criminal Justice I 931TN (Trenton)

**Grade 11-12
Full Year**

Prerequisite: C or better in Algebra I and in Biology; application and interview required; health appraisal required; and criminal background check and drug screen required.

This course is combined with the Criminal Justice course making it a two-hour block class. This is an introductory course to the Emergency Medical Services. This course covers the minimal knowledge and skills necessary to provide lifesaving emergency care to the sick and injured. This includes a certification in CPR for the Healthcare Provider. The Criminal Justice course overviews the criminal justice system in the United States. Topics surveyed are the history of law enforcement, the political, sociological and philosophical background of police functions, and the criminal courts. Constitutional problems as they relate to the police function are surveyed and the use of recent technology in criminal justice is discussed. Students meeting Henry Ford Community College requirements will earn college credit as well as high school credit. These credits can be applied toward an associate degree in Paramedic, Risk Management, Fire Science or Criminal Justice.

Career Technical Education

EMT/Criminal Justice II 933TN (M) (Trenton)	Grade 12 Full Year
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Prerequisite: A grade of "C" or better in Criminal Justice I and instructor approval.

This course is combined with the Criminal Justice course making it a two-hour block class. The Criminal Justice course offered is a continuance of the program from Henry Ford Community College. The EMT course contains a laboratory component, which provides the technical knowledge and skills necessary for certification as a Basic Emergency Medical Technician (EMT-Basic). Students will complete ambulance and hospital emergency department rotations at the end of this course (all students must be 18 before attending the clinical experience).

Engineering Drafting CAD I 820 FR (V) (Flat Rock)	Grade 11 Full Year
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Prerequisite: Successful completion of math class

This course is designed as an introduction to computer graphics using the AutoCAD software. Students will learn to use the computer components, terms and commands associated with the AutoCAD system. Students will work with multiview, detail/assembly, exploded and pictorial assembly drawings. This class will involve becoming familiar with the materials and processes of the machine trades. All students will develop a complete set of prints (detail/assembly and pictorial assembly) for a jig or fixture and have them printed and plotted

Engineering Drafting CAD II 822FR (M;V) (Flat Rock)	Grade 12 Full Year
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Prerequisite: A grade of "C" or better in Drafting and instructor approval.

Advanced level students learn to create 3D drawings using AutoCAD, Inventor, and Solid-Works (all software is updated regularly to stay current with industry and colleges.) After becoming proficient with this software the students are then able to go on to create 3D animation using 3ds Max.

Graphic Arts I 250SG (V) (Southgate)	Grade 11 Full Year
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Prerequisite: None

Students will learn the entire process from design to final production of the printed piece. Students will learn to design web and print graphics utilizing Adobe Creative Suite software: InDesign, Photoshop, Illustrator and Dreamweaver. In addition to developing skills in Desktop Publishing students will also be introduced to Darkroom Processing, Image Assembly, Platemaking, Offset Press, Digital Press and Screen Press operations. Students will also be exposed to stop motion animation through iMovie.

Graphic Arts I 250WH (V) (Woodhaven)	Grade 11 Full Year
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Prerequisite: None

Students are introduced to the software, Adobe SC5, which is the current industry standard. In this class, students design and produce multi colored T-Shirts both by screen printing and one of the most current Printing methods, Dye-Sublimation. Other Dye-Sublimation projects include mugs, license plates, key chains, and mouse pads.

Career Technical Education

Graphic Communications II 252SG (M;V) (Southgate)	Grade 12 Full Year
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Prerequisite: A "C" or better in Graphic Communications I and approval of instructor.

Students will spend an entire year in the production lab involved in press operation, contact printing, dark room activities, layout, design work, plate making, multiple color operations, digital photography, photo editing, web page design, and digital video.

Graphic Communications II 252WH (M;V) (Woodhaven)	Grade 12 Full Year
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Prerequisite: A "C" or better in Graphic Communications I and instructor approval.

Students will spend an entire year in the production lab involved in press operation, contact printing, dark room activities, layout, design work, plate making, multiple color operations, digital photography, photo editing, web page design, and digital video.

Health Occupations I 910GI (V) (Grosse Ile)	Grade 11 Full Year
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Prerequisite: A "C" or better in math and science courses; physical examination; immunization record; orientation required; and criminal background check.

Students will learn skills including infection control practices, safety, Cardiopulmonary Resuscitation (CPR), first aid, blood pressure, pulse, and respiration monitoring. An exam is given at the end of Health Occupations I for students that have a C or better. If the student passes the exam with a 70% or better, they receive a National Health Science Consortium certificate. Explorations include job shadowing at Henry Ford Wyandotte Hospital, a visit to a simulation laboratory at Mercy St. Vincent Medical Center Toledo, and to the University of Toledo/Medical College of Ohio Gross Anatomy Laboratory.

Health Occupations II 912GI (M;V) (Grosse Ile)	Grade 12 Full Year
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Prerequisite: A "C" or better in Health Occupations and instructor approval

In Health Occupations II, anatomy and physiology, medical terminology, nurse's aide training, and an exposure experience in the field of their choosing are completed. At the end of Health Occupations II, students passing the exam and getting a C in the course can receive college articulation credit. Also, if the student successfully completes the Nurse's Aide curriculum with an 80% or better, they can take the Registry Exam which allows them to work in a medical facility and gains them additional college credit opportunities.

Career Technical Education

Health Occupations I 910FR (V) (Flat Rock)

**Grade 11
Full Year**

Prerequisite: A "C" or better in math and science courses; physical examination; immunization record; orientation required; and criminal background check.

Students will learn skills including infection control practices, safety, Cardio Pulmonary Resuscitation (CPR), first aid, blood pressure, pulse, and respiration monitoring. An exam is given at the end of Health Occupations I for students that have a C or better. If the student passes the exam with a 70% or better, they receive a National Health Science Consortium certificate. Explorations include job shadowing at Henry Ford Wyandotte Hospital, a visit to a simulation laboratory at Mercy St. Vincent Medical Center Toledo, and to the University of Toledo/Medical College of Ohio Gross Anatomy Laboratory.

Health Occupations II – Pharmacy Tech 912FR (V;M) (Flat Rock)

**Grades 11 - 12
Full Year**

Prerequisite: A "C" or better in Health Occupations I and instructor approval.

In Health Occupations II, anatomy and physiology, medical terminology, pharmacy technician and exposure to other fields in health care are explored. At the end of Health Occupations II, students passing the exam and getting a C in the course can receive college articulation credit. Also, if the student successfully completes the Pharmacy Technician curriculum with a 75% or better, they can take the State certification exam which allows them to work in a pharmacy related facility and gain additional experience in the field.

Health Occupations I 911GI (V) (Wyandotte Hospital)

**Grade 11
Full Year**

Prerequisite: A "C" or better in Algebra I and Biology; physical examination; immunization record; criminal background check; student must provide his own transportation.

The first year provides an introduction to health careers. Students will learn anatomy and physiology, diseases and disorders, body systems, medical terminology and abbreviations. The course includes foundation standards, first aid, CPR, Infection Control, safety training Universal Precautions.

Health Occupations II 913GI (V;M) (Wyandotte Hospital)

**Grade 12
Full Year**

Prerequisite: Completion of Health Occupations I; application; references; one page paper of interest; instructor recommendation.

Students get practical work experience and build confidence as they blend science and technology with caring and compassion. They will experience different health care settings, learn the profession and what is done on a daily basis and decide which area is right for them. Through this rewarding process, they will work with patients before entering the field. Students will have completed 360 hours volunteering to help their resume stand out or to provide a boost in the college application process.

Career Technical Education

Heating, Cooling, and Ventilation I 350RV (V) (Riverview)

**Grade 11-12
Full Year**

This two-year CTE program is comprised of a series of courses offered through Henry Ford College in conjunction with Riverview HS in a Dual Enrollment opportunity.

The courses offered present an overall study of the principles of energy production and its uses. Course work provides students who are successful with a well-rounded background in the principles of measurement, conservation, operation and repair of residential/commercial heating, and air conditioning and refrigeration equipment. Students will utilize standard safety procedures, troubleshoot electrical systems, interpret diagrams relevant to the HVAC-R industry, perform preventative maintenance, demonstrate effective project management skills, and design and select equipment for HVAC-R systems. Courses in Year One include: Energy Technology, AC/DC Elec, Heating Technology, Refrigeration, Sheet Metal Fab, and Heating & Cooling Codes.

Heating, Cooling, and Ventilation II 352RV (V) (Riverview)

**Grade 12
Full Year**

Prerequisite: HVAC I

The courses offered present an overall study of the principles of energy production and its uses. Course work provides students who are successful with a well-rounded background in the principles of measurement, conservation, operation and repair of residential/commercial heating, and air conditioning and refrigeration equipment. Students will utilize standard safety procedures, troubleshoot electrical systems, interpret diagrams relevant to the HVAC-R industry, perform preventative maintenance, demonstrate effective project management skills, and design and select equipment for HVAC-R systems. Courses in Year Two include: HVAC Installation, Refrigeration Technology, Air Conditioning Technology, Blueprint Reading, and Steam/Hot Water Systems.

Hospitality I 450RV (V) (Riverview)

**Grades 11 - 12
Full Year**

The Hospitality and Food Services is a two-year program that offers the opportunity to acquire skills to prepare the student for a successful career entry or continuing education in the field of Food Service, Travel/Tourism, and Lodging occupations. The course will emphasize computational skills and knowledge; problem solving, reasoning, and decision-making skills; leadership skills; and social and employability skills. Students will gain practical experience working in the preparation and service of the student-operated school cafeteria and restaurant, The Pirates' Den. Various areas of restaurant work such as management, food management and handling, waiter/waitressing, baking, and other duties are exposed throughout the year in a hands-on environment. It is recommended that this course be taken as a year-long course. Curriculum has been updated to include textbooks created by the National Restaurant Association, with the class meeting State standards for Hospitality by utilizing ProStart material. Students will obtain a knife skills certificate, entry level Food Handler Certificate, and opportunity for CTE certificates within a year.

Career Technical Education

Hospitality II 452RV (M; V) (Riverview)

**Grade 12
Full Year**

Prerequisite: Satisfactory completion of the Hospitality course for one year or permission of instructor and principal. 2ND period available for seniors or juniors without Hospitality I with permission of instructor.

This course builds and develops upon the skills learned in the first year. The course will reiterate the same employability skills from year one, such as problem solving, leadership and mentoring, and social team building. Students prepare food for the school cafeteria and restaurant for the following day, and also labs related to the ProStart material. Second year students continue culinary methods and techniques, but also spend a portion of the academic time learning and reviewing business management in the Hospitality field. Advanced students are involved in creating a business plan and costing out a menu for it, and take part in a job shadow and portfolio experience. Students will obtain the National Manager Allergen Certificate, and the opportunity to obtain the National Manager Food Safety Certificate and CTE Completer Certificates.

Information Technology 560AT (M;V) (Airport)

**Grades 11
Full Year**

Prerequisites: Junior status and on-course to graduate (seniors may be admitted on a space available basis.); GPA of 2.0 or higher in core classes; attendance history meets the standard of the sending school district.

IT: Computer Information System Administration is a two-year DCTC program. By the completion of the two year program, students will have a Computer Information Systems Introductory Certificate and 28 credits towards an Associate's Degree at Schoolcraft College. This program prepares the student for entry level positions supporting users of microcomputer components of the operating system. The Computer Information Systems Introductory Certificate introduces students to the operating system and concepts surrounding programming logic. It is predicted that Information Technology jobs will be in high demand in Southeast Michigan. This program will be located at Airport High School.

Introduction to Education I 850GI (V) (Grosse Ile)

**Grades 11 - 12
Full Year**

Prerequisite: Mandatory orientation; immunization records; physical examination; criminal background check.

The first year course introduces the unique characteristics of the child, develops respect for children, and guidance skills that help them grow and develop. The student will gain knowledge that enables him/her to decide whether working in the field of education is a suitable, personal career goal; develop and show responsibility in work performance; learn how to study the growth and development of children; recognize the physical, social, emotional, and intellectual abilities and needs of children; understand how children learn and the importance of play in their development; learn how parents and teachers influence the growth and development of the child. The student will gain this knowledge through classroom work and field placement experiences in a preschool and elementary setting.

Career Technical Education

Introduction to Education II 852GI (M;V) (Grosse Ile)

**Grade 12
Full Year**

Prerequisite: A "C" or better in Intro to Education and instructor approval

The second year course will introduce the unique characteristics of the teaching field through lesson planning, classroom management, technology and field placement experiences. The student will continue to learn about the field of education through observation and field experience.

JROTC 750GB (V) (Southgate)

**Grade 10-12
Full Year**

JROTC is a program designed to motivate young people to become better citizens. The program of instruction helps today's students develop goal setting and communication skills as well as leadership skills in preparation for the postsecondary environment. The JROTC curriculum known as Leadership Education and Training (LET) is a developmental program instructed within the framework of military organization and discipline. Physical fitness is a required activity as well as drill and ceremony (marching).

Marketing I 750GB (V) (Gibraltar)

**Grade 11
Full Year**

Prerequisite: Application and interview

The ultimate goal in marketing is to satisfy consumers through the attainment of organizational goals. In this course, students will study the four main areas of marketing and research careers in retailing. Much of the work for this class is project oriented and performed in teams. Students will run the day to day operations of Carlson's school store. Students will study how to research the market, develop a plan and make it operation, running the school store, accounting for profits, promoting the business, securing the store, having a customer focus, being an effective manager, and achieving personal success. Student daily school store tasks will include store management, cashiering, security, food processing/handling, and inventory. Students will be required to be a member of DECA.

Marketing II 752GB (V, M) (Gibraltar)

**Grade 12
Full Year**

Prerequisite: C or better in Marketing I and instructor approval.

Students in Marketing II will be responsible for managing the day-to-day operations of Carlson's school store, the Marauders' Galley. Responsibilities will include: ordering products, setting prices, stocking merchandise, creating displays, maintaining financial records, developing promotional strategies, practicing management techniques, and selling merchandise. Students will also study entrepreneurship and discover how to create a business from its initial start-up and manage the responsibilities and risks involved. Students will be required to be a member of DECA.

Career Technical Education

Mechatronics I and II 550HF (M;V)	Grade 11-12 Full Year
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Prerequisites: Junior status and on-course to graduate (seniors may be admitted on a space available basis.); GPA of 2.0 or higher in core classes; attendance history meets the standard of the sending school district; additional prerequisites may be required by Henry Ford College.

An Integrated Skills for the 21st Century course offered by the Downriver Career Technical Consortium in partnership with Henry Ford College, the Ford Motor Company Flat Rock Assembly Plant, and UAW Local 3000.

Mechatronics is a two year program that combines both principles and skills from several areas vital to modern day manufacturing. Electrical, Mechanical, Fluid (Hydraulics and Pneumatics), Computer Control and Automation/Robotics systems are included in Mechatronics. Through a combination of classroom and intense laboratory exposures, students are prepared for entry into a range of career opportunities throughout the manufacturing, healthcare, architecture and other sectors of the economy.

In cooperation with Henry Ford College, the successful Mechatronics student will finish high school having completed 29 hours of undergraduate credit. Should a student choose, they may complete an Associate's Degree at HFC within one year of high school graduation. Pathways to apprenticeships will also be available to those who qualify

Welding I 190FR (V) (Flat Rock/WH)	Grade 11 Full Year
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Students will learn Mig, Tig, Arc, and gas welding and will also have an opportunity to participate in different welding competitions.

Welding II 192FR (M;V) (Flat Rock/WH)	Grade 12 Full Year
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Prerequisite: C or better in Welding I and instructor approval.

Advanced students will continue to improve on studies learned in Welding I.

Partnership Electives

Part-time homeschool students and virtual school students in grades 9-12 may take up to two partnership electives. Part-time homeschool students may also take 2 additional non-partnership electives. The virtual work for these classes are based on the project based learning model. The weekly lessons will be submissions of work that will build on each other to help produce a final large project in the topic of their choosing that correlates to the course. Students will research and revise their weekly lessons in order to submit a finished, final project.

*Partnership electives do not count towards the 18 credit requirement for a high school diploma at LVS.

Course #	Course Title	Day	Time	Location	Grade Level	Course Length
LPS-GEN180	German Conversation and Culture	Wednesday	11AM	HUB	9-12	1 Semester
LPS-HPE111	Health and Wellness: Advanced Archery	Thursday	3-4:30PM	Lincoln Bowman Archery	9-12	1 Semester
	Health and Wellness: Horsemanship 1	THUR FRI	11AM 1PM	Hunter's Run Rushlow's	9-12	Full Year
	Health and Wellness: Horsemanship 2	THUR FRI	11AM 2PM	Hunter's Run Rushlow's	9-12	Full Year
LPS-GEN150	Life Skills	Wednesday	10AM	HUB	9-12	1 Semester
	Survival Skills	Wednesday	12PM	HUB	9-12	1 Semester
	Web Design	Wednesday	1PM	HUB	9-12	1 Semester

S – Skills Test VR – Virtual Content Repeats each semester PBL - Project Based Learning

German Conversation and Culture	Grades 9-12
(PBL)	1 Semester (Fall & Winter)

In this class, students will explore the German language and culture through a discussion of food, clothing, language, and people of German-speaking countries. Students will be given the opportunity to look at similarities and differences between how we and German-speaking people talk and live. *Students may take this course each semester to continue gaining skills.

Health and Wellness: Advanced Archery	Grades 9-12
(PBL)	1 Semester (Fall & Winter)

Prerequisite: Skills Test

In this class, students will learn advanced archery techniques, mental strength, and tournament rules, along with different scoring methods and more focused instruction. A minimum of one year in archery is required to take Advanced Archery.

Health and Wellness: Horsemanship 1	Grades 9-12
(PBL)	Full Year

In this class, students will learn about all aspects of equestrian training including the care of a horse, approaching a horse, saddling, and riding. Note: there are 10 application lessons per semester for this class.

Partnership Electives

Health and Wellness: Horsemanship 2 (PBL)

**Grades 9-12
Full Year**

Prerequisite: Health and Wellness Horsemanship 1

In this class, students will continue learning about all aspects of equestrian training. This course is for students who have completed at least one year of Health and Wellness: Horsemanship 1. Note: there are 10 application lessons per semester for this class.

Life Skills (PBL)

**Grades 9-12
1 Semester (Fall & Winter)**

In this class, students will dive into a variety of activities that will give them skills to practice adulting. Students will be learning how to properly handle food, kitchen sanitation, prepping food and cooking meals. Students will also learn basic knowledge for basic power and hand tools, automotive skills, plumbing, electrical, hand sewing, and more. Each semester will be different and will showcase different skills. Students will not need any prior skills to take this class.

Survival Skills (PBL)

**Grades 9-12
1 Semester (Fall & Winter)**

In this class, students will learn to prepare for various emergencies from weather catastrophes, to worldwide health crises, to infrastructure failures. This class will cover a variety of survival skills including camp tool use and care, fire building, outdoor cooking, water purification methods, basic knots and lashings, foraging, dangerous critter and plant identification, home emergency preparedness, first aid, and more. Students will be required to complete an individual project on a class-related topic of their choosing, and present it at the end of the semester.

Web Design (PBL)

**Grades 9-12
1 Semester (Fall & Winter)**

In this class, students will design, build, and create a custom website! Students will create graphics, web stories, multimedia elements, and online content for publishing on a website.

