



# COURSE CATALOG

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# GRADUATION REQUIREMENTS

Students must earn a minimum of 18 credits for graduation:

**LANGUAGE ARTS** (Grades 9, 10, 11 & 12) **4.0 Credits**

**MATHEMATICS** **4.0 Credits**

- 1.0 Credit Algebra 1(or equivalent)
- 1.0 Credit Geometry
- 1.0 Credit Algebra 2 (or equivalent) Prerequisites Algebra I, Geometry
- 1.0 Credit Financial Math, Math related CTE or other Math related Course.  
\*Pre-Algebra may be taken in the 9<sup>th</sup> Grade for Credit

**SCIENCE** **3.0 Credits**

- 1.0 Credit Physical Science or Chemistry or Physics
- 1.0 Credit Biology/Life Science
- 1.0 Credit Elective Science or approved Computer Science program or formal Career and Technical Education (CTE) program or curriculum.

**SOCIAL STUDIES** **3.0 Credits**

- 1.0 Credit World History
- 1.0 Credit US History
- 0.5 Credit Economics
- 0.5 Credit Civics or Government

**WORLD LANGUAGE** **2.0 Credits**

- 2.0 Credits World Language or
- 1.0 Credit World Language and 1.0 credit CTE or
- 1.0 Credit World Language and 1 credit of Visual Performing Arts in addition to required VPA

**PHYSICAL EDUCATION/HEALTH** **1.0 Credit**

- 0.5 Credit Health
- 0.5 Credit Personal Fitness

**VISUAL, PERFORMING AND/OR APPLIED ARTS** **1.0 Credit**

**TOTAL 18 Credits**

**\*Students may take more than 18 credits as long as they have not yet met the requirements for graduation.**

Unless otherwise indicated in an Individualized Education Program (IEP), a Section 504 Plan, or similar program of services, as a requirement for graduation, a high school student must participate in all state, federal and District academic testing programs in which the student is eligible to participate and which the School District is required to administer. Any deviation from this requirement must be approved by the Superintendent or his/her designee. Any student enrolled in a testing window must take that test to graduate unless he/she has a waiver. Students will not be allowed to continue in their courses until they have completed the test.

## **STANDARDIZED TESTING:**

- 1) MME (Michigan Merit Exam) – Assessment in Spring for 11th grade students
  - a) SAT
  - b) WorkKeys
  - c) M-Step
- 2) PSAT9 – Assessment in Spring for 9th grade students
- 3) PSAT10 – Assessment in Spring for 10th grade students

## **DISTRICT TESTING:**

- NWEA MAP Growth Reading – Assessment upon enrollment for all students
- NWEA MAP Growth Math – Assessment upon enrollment for all students
- NWEA MAP Growth Reading – Assessment in Spring for all students
- NWEA MAP Growth Math – Assessment in Spring for all students

# **LANGUAGE ARTS**

**Students must have 4 Credits of English Language Arts to meet the State of Michigan graduation requirements:**

## **ELL Foundations: Newcomer**

*Counts as English Credit*

*1 Semester*

The Newcomer course in the ELL Foundations library is made up of 23 lessons that facilitate the introduction of basic vocabulary and sentence structure necessary for beginning English language learners. In the course, students will encounter activities that support all four modalities of language learning: listening, speaking, reading, and writing.

## **ELL Foundations: Level 1**

*Counts as English Credit*

*1 Semester*

The Level 1 course consists of 32 lessons built using multi-genre, multicultural reading selections with Lexile® measures. As students work through the lessons, they continue to build their vocabularies, hone their English reading skills, and sharpen their control of English syntax and grammar. In the course, students will encounter activities that support all four modalities of language learning: listening, speaking, reading, and writing.

## **ELL English A/B**

*Counts as English Credit*

*2 Semesters*

With a focus on reading skill development, Essential English integrates the study of writing and literature through the examination of a variety of genres. Students identify the elements of composition in the reading selections to understand their function and effect on the reader. Practice is provided in narrative and expository writing. Topics include comparison and contrast, persuasion, and cause and effect essays, as well as descriptive and figurative language. Lessons are supplemented with vocabulary development, grammar, and syntax exercises, along with an introduction to verbal phrases and research tools.

## **English 1 A/B**

*2 semesters*

A balance of fiction and nonfiction texts are used throughout the course, and each unit is designed around a thematic concept to provide cohesiveness to the skills-based lessons and activities that make up the unit. The course intertwines the development of reading skills with the development of writing, speaking, and listening, and language skills. The course features a variety of interactions, videos, and new student resources, such as worksheets and guided notes. This course also includes Augmented Reality activities in partnership with Boulevard Arts. The AR activities in this course are designed to immerse students in their English Language Arts learning while providing access to famous works of art for cross-curricular learning purposes.

## **English 2 A/B**

*2 semesters*

This course focuses on using personal experiences, opinions, and interests as a foundation for developing effective writing skills. Skills acquired in English 1 are reinforced and refined. Literary models demonstrate paragraph unity and more sophisticated word choice. A research paper is required for completion of course. Topics include grammar, sentence and paragraph structure, organizing compositions, and the research paper.

## **English 3 A/B**

*2 semesters*

This course explores the relation between American history and literature from the colonial period through the realism and naturalism eras. The course explores the relation between American history and literature from the modernist period through the contemporary era, and presents learners with relevant cultural and political history. Readings are scaffolded with pre-reading information, interactions, and activities to actively engage learners in the content. The lessons in both semesters focus on developing grammar, vocabulary, speech, and writing skills.

## **English 4 A**

*2 semesters*

In keeping with the model established in English III, these courses emphasize the study of literature in the context of specific historical periods, beginning with the Anglo-Saxon and medieval periods in Britain. Each lesson includes tutorials and embedded lesson activities that provide for a more engaging and effective learning experience. Semester B covers the romantic, Victorian, and modern eras. End of unit tests ensure mastery of the concepts taught in each unit, and exemptive pretests allow students to focus on content that they have yet to master.

## English 4 B

*2 semesters*

This semester is designed to strengthen students' ability to read and write in the workplace. Writing for business purposes is a main focus of the course. Students will learn how to communicate effectively through email and instant messaging, as well as format specific types of business messages and workplace documents. The role of digital media, visuals, and graphics in workplace communication will be explored. The importance of professionalism, ethics, and other positive skills are also emphasized in the course. Additionally, guidance is provided to help students through the process of searching, applying, and interviewing for a job.

## MATHEMATICS

**Students must have 4 credits of math to meet the State of Michigan graduation requirements:**

Students will be required:

- Algebra I – 2 semesters
- Geometry – 2 semesters
- Algebra II – 2 semesters
- 2 Additional Semesters of Math – These credits may come from eligible CTE courses

## Pre-Algebra A/B

*May count as 9<sup>th</sup> Grade Math Credit*

*2 Semesters*

This course builds on material learned in earlier grades, including fractions, decimals, and percentages and introduces students to concepts they will continue to use throughout their study of mathematics. Among these are surface area, volume, and probability. Real-world applications facilitate understanding, and students are provided multiple opportunities to master these skills through practice problems within lessons.

## Algebra I A/B

*Required*

*2 Semesters*

Linear relationships are a main focus of this course. You will graph, create, and solve linear equations and apply function notation to describe linear relationships. You will also study linear transformations and represent linear data using scatter plots and mathematical models. You will learn to perform operations on polynomials and factor them. You will examine quadratic relationships in detail by writing and graphing quadratic equations. You will also model real-world situations with quadratic functions and solve quadratic equations using a variety of methods. You will investigate exponential relationships and apply exponential models to describe and make predictions about real-world situations. You will solve linear-quadratic and linear-exponential functions.

## **Geometry A/B**

*Pre-Requisites: Algebra I*

*Required*

*2 Semesters*

Geometry is a branch of mathematics that uses logic and formal thinking to establish mathematical relationships between points, lines, surfaces, and solids. In Geometry, you will explore rigid and non-rigid transformations of figures in the coordinate plane and use them to establish congruence and similarity of triangles and other shapes. You will also prove theorems about lines, angles, triangles, and parallelograms, and build geometric constructions with both basic tools and modern technology. You will review the volume formulas for some common solid figures as you extend your knowledge of two-dimensional shapes to three-dimensional shapes. You will use analytical geometry and observations to investigate the properties of circles and constructions related to circles.

## **Algebra II A/B**

*Pre-Requisites: Algebra I, Geometry*

*Required*

*2 Semesters*

This course advances students' ability to think algebraically, taking their earlier work with linear, exponential, and quadratic equations and expanding on it with polynomials and more advanced equation types. Students will work with rational, radical, logarithmic, inverse, and piecewise functions. They will also extend their studies to include systems of equations and inequalities, trigonometry, complex numbers, and statistics. The course emphasizes using these algebraic concepts to solve problems and help people in many walks of life. The course employs many tools to teach students these concepts, including interactive graphing, videos that walk through problems, and many practice items.

## **Financial Math A/B**

*2 Semesters*

*Prerequisite: Algebra I*

*May be substituted with a Math related CTE or other Math related Course.*

This course is designed to instruct students in algebraic thinking while also preparing them to navigate a number of financial applications. Students will explore how algebraic knowledge is connected to many financial situations, including investing, using credit, paying taxes, and shopping for insurance. In studying these topics, students will learn about the linear, exponential, and quadratic relationships that apply to financial applications. In addition, the course will help prepare students to tackle the wide variety of financial decisions they will face in life, from setting up their first budget to planning for retirement.

## **Consumer Math**

*1 Semester*

*Prerequisite: Pre-Algebra and/or Algebra I*

In this course, you will learn practical applications of math. You will learn how to plan a budget, manage bank accounts, and figure the cost of a good or service. You will also learn about taxes, payroll deductions, and how to invest and borrow money. This course will help you make informed decisions about buying or renting a home or car and teach you how to protect your purchases and investments with insurance.

## Personal Finance

1 Semester

*Prerequisite: Pre-Algebra and/or Algebra I*

This one-semester course is intended to help you familiarize yourself with the basic and essential concepts of personal finance. You will learn about identifying the role of the consumer in the economic system of the United States, and how to describe types and services of financial institutions and their role in personal financial planning. You will also learn how to describe various career options in personal finance, identify the basics of personal financial planning, and manage personal and family incomes and expenses.

## SCIENCE

**Students must have 3 Credits of science to meet the State of Michigan graduation requirements:**

**Students will be required:**

- Biology (or a qualifying life science from a previous educational institution).
- 1 Credit in Physical Science or Chemistry or Physics
- The 3rd Credit in science can be elected from the choices below (if not previously taken).  
Students may choose to take 1 Semester of any of the courses combined with 1 Semester of another
- Students preparing to go into a science, engineering, math or medical field are strongly advised to take a 4th Credit of science from those listed below (if not previously taken).

## Biology A/B

*Required*

2 Semesters

Biology is a course designed to strengthen your knowledge of basic biology. This course looks at factors that affect living things. Students will use the scientific method to investigate a biology question. The course will teach students about the basics of life while also challenging them to complete labs, record findings, and walk through the scientific process from start to finish. The course requires some virtual labs as well as real-life science experience with nature studies, dissections, and microscopic slide kits.

## Physical Science A/B

*Required*

*Prerequisite – None*

2 Semesters

This inquiry- and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards associated with middle school physical science. Content topics include structure and properties of matter, chemical reactions, forces and motion, force fields, energy, and waves. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities. Approximately 40% of student in this course is devoted to true lab experiences

## **Chemistry A/B**

*Prerequisites –Biology or Physical Science*

*2 Semesters*

Chemistry is the study of matter and how it changes. This course looks at matter's composition, properties, and transformations. Students will explore the structure and properties of matter; analyze and construct the periodic table of elements; compare elements discuss the chemical bonding; predict the outcome of chemical reactions based on the reactants involved; calculate the theoretical quantities of substances involved in a chemical reaction; analyze chemical reactions that involve aqueous solutions, acids and bases, and gases; how gases respond to changes in pressure, volume, temperature, and quantity through the ideal gas law; calculate changes in temperature caused by physical and chemical processes and analyze reactions in terms of bond energies; how atoms are changed by the unique processes of radioactive decay, nuclear fusion, and nuclear fission.

## **Physics A/B**

*Prerequisites – Physical Science or Biology*

*2 Semesters*

Physics is the scientific study of matter, energy, and their most fundamental physical interactions, including attractions, repulsions, and collisions. Students will learn about the “basics” of physics: how to describe and analyze motion, how forces interact with matter, and how to further describe these interactions with the aid of the concepts of energy and momentum; specialized topics, thermodynamics, the physics of heat; use your physical understanding of motion, forces and energy and apply that knowledge to some important, specialized topics in physics: the behavior of waves, applications of wave theory to light and optics, the interaction of electrical and magnetic forces, and the special “non-Newtonian” properties of energy and matter described by quantum theory.

## **Earth and Space Science A/B**

*Prerequisites – None*

*2 Semesters*

Earth and space science is the study of the structure of our planet and Earth's role in the solar system and universe. This branch of science relies on observations, historical data, and physical evidence to describe the natural processes that occur around us and in distant space. Students will learn about course methods and tools that scientists use to study Earth and space science.

## **Introduction to Forensic Science**

*Prerequisites – Biology*

*1 Semester*

Forensic science is the study and application of science to the process of law and involves the collection, examination, evaluation and interpretation of evidence. Students will gain a basic understanding of the scientific and analytical approach to determining the value of evidence as it relates to the court of law.



## **Revolutionary Ideas in Science**

*Prerequisites – Biology*

*1 Semester*

This course covers prehistoric science, medieval science, the scientific revolution, Newtonism, the cosmos, darwinism, and breakthroughs in anatomy, medicine, thermodynamics, electricity, magnetism, DNA, and social networking.

## **SOCIAL STUDIES**

**Students must have 3 Credits of social studies to meet the State of Michigan graduation requirements:**

Students will be required:

- 1 Credit United States History
- 1 Credit World History
- 1 Semester Government
- 1 Semester Economics

## **World History A/B**

*Required*

*2 Semesters*

This course is a survey of world history. Beginning with the study of early human societies and the invention of agriculture, this course takes the students on a journey through time, from ancient societies up through the modern era. This course employs many interactive features like maps and images with clickable hotspots that students can explore to get more information about things such as regions, cities, and geographical features on a map and artistic techniques and features in famous works of art.

## **United States History A/B**

*Required*

*2 semesters*

This course not only introduces students to early U.S. History, but it also provides them with an essential understanding of how to read, understand, and interpret history. For example, the first unit, The Historical Process, teaches reading and writing about history; gathering and interpreting historical sources; and analyzing historical information. While covering historical events from the founding events and principles of the United States through contemporary events, the course also promotes a cross-disciplinary understanding that promotes a holistic perspective of U.S. History.

## **Government**

*Required*

*1 semester*

The interactive, problem-centered, and inquiry-based units in U.S. Government emphasize the acquisition, mastery, and processing of information. It includes the study of the foundations of American government and the American political culture, with units 2 and 3 covering the U.S. constitution, including its roots in Greek and English law, and the various institutions that impact American politics.

## **Economics**

*Required*

*1 semester*

This course covers basic economic problems such as scarcity, choice, and effective use of resources. It also covers topics on a larger scale, such as market structures and international trade. It particularly focuses on the US economy and analyzes the role of the government and the Federal Reserve System.

## **HEALTH AND PHYSICAL EDUCATION**

**Students must have 1 semester of health and 1 semester of physical education to meet the State of Michigan graduation requirements:**

### **Health**

*Required*

*1 semester*

This course is based on a rigorously researched scope and sequence that covers the essential concepts of health. Students are provided with a variety of health concepts and demonstrate their understanding of those concepts through problem solving. The five units explore a wide variety of topics that include nutrition and fitness, disease and injury, development and sexuality, substance abuse, and mental and community health.

### **Physical Education**

*Required*

*1 semester*

This course's three units include Getting Active, Improving Performance, and Lifestyle. Unit activities elevate students' self-awareness of their health and well-being while examining topics such as diet and mental health and exploring websites and other resources. In addition to being effective as a stand-alone course, the components can be easily integrated into other health and wellness courses.

# WORLD LANGUAGES

Options for students to meet the State of Michigan graduation requirements:

- **2 Credits (4 semesters) of a world language**
- **1 Credit of a world language and 1 Credit of Career and Technical Education credit**
- **1 Credit of world language and 1 Credit of a Visual, Performing and Applied Arts credit that is in addition to the required VPA**

Our language courses are offered through Rosetta Stone with access to a teacher in the classroom when you need help. Rosetta Stone is a powerful learning tool that provides students with an immersive, interactive and engaging language-learning experience. You will learn to communicate in Spanish about familiar topics like family, food, clothing, and daily life through activities practicing reading, writing, listening, speaking, grammar, and vocabulary.

## **Spanish A, B, C, D**

- *Required – See options above*
- *4 semesters*

## **Newcomers English 1, 2, 3, 4**

- *ELL Newcomer and/or based on WIDA scores*
- *4 semesters*

## **Hispanic World Travel & Arts [Project]**

*1 Semester*

In this course you will plan a trip to a destination of your choice in the Spanish speaking world. You will practice real life skills like working with a budget as you research and document your plan. Along the way you will also learn about the country's food, festivals, history, culture, art, music, money, weather, and more.

# VISUAL, PERFORMING AND APPLIED ARTS AND ELECTIVES

Students must have 1 credit to meet the State of Michigan graduation requirements.

The following electives may be used as substitute credit for various core subject requirements to meet the State of Michigan graduation requirements

- Career and Technical Education – May be used for World Language, VPA Credit and in some instances Math and Science
- VPA – May be used for World Language and VPA credit

## Creative Writing

*Elective (VPA Credit)*

*1 semester*

This course is designed to get students to pursue creative writing as a vocation or as a hobby by exposing them to different genres and techniques of creative writing and the key elements in each genre. Great creative writing does not come merely by reading about the craft—one also needs ideas; a process for planning, drafting and revising; and the opportunity to experiment with different forms and genres. The lesson tutorials in this course familiarizes students with the basic structure and elements of different types or genres of writing. The course is based on (CTE) standards designed to help students prepare for entry into a wide range of careers in creative writing fields.

## Creative Journaling and Mindfulness

*Elective (VPA Credit)*

*1 semester*

Mindfulness can be defined as “being present in the here and now- paying attention to our thoughts, bodily sensations, emotions, and the external environment with kindness, non-judgment, and curiosity” (Mindful Schools, 2021). Using the Mindful Schools grade 6-12 curriculum, the Mindful Journaling class will give students the opportunity to explore the real-time awareness of their inner experience (emotions, sensations, movements, thoughts, and biases) and their outer experience (environment and context, the physical space and individuals around them), and reflect on how these experiences impact and are felt in the body.