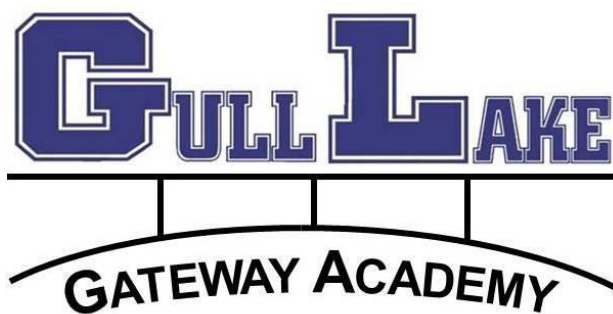


GULL LAKE

Community Schools

COURSE CATALOG



2026-2027

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Gateway Academy follows Michigan Merit Curriculum requirements



Math

Algebra 1 A/B

These courses advance the ability of students to think algebraically, taking them from middle school work with variables and linear equations to the exploration of non-linear function types and more advanced calculations with variable expressions. Students will work with expressions, equations, inequalities, and functions.

Algebra 2 A/B

These courses advance 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.

Consumer Mathematics

This course explains how four basic mathematical operations – addition, subtraction, multiplication, and division – can be used to solve real-life problems. It addresses practical applications for math, such as wages, taxes, money management, and interest and credit. Projects for the Real World activities are included that promote cross-curricular learning and higher-order thinking and problem-solving skills.

Financial Mathematics A/B

Financial Algebra 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.

Fundamentals of Algebra A

This customized course is designed to prepare students for success in Algebra 1. It focuses on reviewing the essential skills and mathematical concepts that serve as the foundation for upcoming learning. Students will apply their understanding of algebraic techniques for representing relationships and use these relationships to solve problems. They will also explore how statistics and probability can be used to draw conclusions and make predictions.

Geometry A/B

A comprehensive examination of geometric concepts, each lesson provides thorough explanations and builds on prior lessons. Step-by-step instruction and multiple opportunities for self-check practice develop skills and confidence in students as they progress through the course. The course features animations, which allow students to



manipulate angles or create shapes, such as triangles, engage students in learning and enhance mastery. Labs extend comprehension by giving students hand-on experiences.

Personal Finance

Financial literacy is an increasingly essential capability as students prepare for the workforce, and this course provides the information they need to determine if a career in finance is right for them. The course uses games and online discussions to effectively facilitate learning, while introducing your learners to a variety of topics, including investment strategies, money management, asset valuation, and personal Finance.

Pre-Algebra A

Pre-algebra uses a spiraling curriculum approach by which each unit builds on the skills and knowledge gained in the previous unit. It, along with the other developmental math courses, emphasizes the demonstration of the mastery of mathematical concepts through problem solving.

Pre-Algebra B

Building on the skills developed in Pre-Algebra A, the nine units in Pre- Algebra B span approximately 21 weeks of instruction. This engaging and comprehensive course includes online courseware, offline activities, and supplemental enrichment activities leveraging a variety of Internet resources.



English Language Arts

English 09 A/B

English 9 introduces the elements of writing poems, short stories, plays, and essays. Grammar skills are enhanced by the study of sentence structure and style and by student composition of paragraphs and short essays. Topics include narration, exposition, description, argumentation, punctuation, usage, spelling, and sentence and paragraph structure.

English 10 A/B

This course focuses on using personal experiences, opinions, and interests as a foundation for developing effective writing skills. Skills acquired in English I 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 11 A/B

English 11A explores the relation between American history and literature from the colonial period through the realism and naturalism eras. English 11B 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 12 A/B

In keeping with the model established in English 11, 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.



Social Studies

Economics

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.

U.S. Government

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

U.S. History A/B

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.

World History & Geography A/B

In World History & Geography, learners will explore historical world events with the help of innovative videos, timelines, and interactive maps and images. Learners will develop historical thinking skills and apply them to their study of European exploration, the Renaissance, the Reformation, and major world revolutions. They will also study World War I, World War II, the Cold War, and the benefits and challenges of living in the modern world.



Science

Anatomy & Physiology

The course begins with an overview of the organization and structure of the human body. You will learn to interpret common medical terminology. In addition, you will describe the structures and functions of cells and tissues.

Biology A/B

These inquiry based courses are designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards for high school biology. Content topics include cells, organ systems, heredity, organization of organisms, evolution, energy use in organisms, and the interdependence of ecosystems.

Biotechnology A/B

These courses begin with an introduction to biotechnology. You will trace the history of biotechnology and learn about its impact on modern society. You will gain the essential skills needed to work in the field of biotechnology. As the course progresses, you will be introduced to the fundamentals of cell biology and molecular biology.

Chemistry A/B

These inquiry- and lab-based courses are designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards associated with high school chemistry along with additional concepts and standards typically included in a full-year high school chemistry course.

Earth and Space Science A/B

Students will learn about the origins and structure of the universe, including stellar life cycles and the forces that govern orbital motion, the formation and evolution of the Precambrian Earth, and the materials and tectonic forces that continue to shape the planet.

Environmental Science A/B

These courses are designed to introduce students to the history of environmental science in the United States, ecological interactions and succession, environmental change, adaptation, and biogeochemical cycles. Students will learn about the importance of environmental science as an interdisciplinary field.

Exercise Science A/B

The course begins with an introduction to the historical development of exercise physiology. You will demonstrate proficiency in the use of medical terminology. You will



then describe the human body's anatomy, physiology, and stages of growth and development. You will become familiar with biomechanics and kinesiology.

Integrated Physics & Chemistry A/B

The lessons in these courses employ direct-instruction approaches. They include application and Inquiry-oriented activities that facilitate the development of higher-order cognitive skills, such as logical reasoning, sense-making, and problem solving.

Introduction to Astronomy

Introduction to Astronomy is a one-semester course with 17 lessons that cover a wide range of topics, such as the solar system, planets, stars, asteroids, comets, galaxies, space exploration, and theories of cosmology. The target audience for this course is high school students.

Introduction to Forensic Science

In this course, you will learn about the importance and limitations of forensic science and explore different career options in this field. You will also learn to process a crime scene, collect and preserve evidence, and analyze biological evidence such as fingerprints, blood spatter, and DNA.

Introduction to Marine Biology

In the Introduction to Marine Biology course you will explore the fundamental concepts of marine biology. Students will learn about the formation and characteristic features of the oceans. They will also learn about the scientific method and explore careers available in marine biology.

Physical Science A/B

These inquiry- and lab-based courses are 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.

Physics A/B

Physics introduces students to the physics of motion, properties of matter, force, heat, vector, light, and sound. Students learn the history of physics from the discoveries of Galileo and Newton to those of contemporary physicists.



Career and Technical Education

Allied Health Careers A/B

The courses begin with an overview of the health care delivery system and allied health services. Students will also be introduced to medical terminology. As they progress in the course, they will learn about the structures and functions of various human body systems.

Applied Medical Terminology A/B

This course will cover the structure of the human body systems and their functions. It will also include medical terminology related to diseases, disorders, medical procedures, and treatment for each body system.

Business & Information Technology

In this course, students will learn about business, marketing, product design, careers, and communication. They will analyze the basic concepts of entrepreneurship and different types of business ownership.

Career Explorations

The lessons and additional activities in this course are fundamental to ensuring career readiness on the part of your students. Covering such essentials as developing and practicing a strong work ethic, time management, communication, teamwork, and the fundamentals of workplace organizations.

Certified Medical Assistant A/B

This course is designed to help students develop essential skills for a career as a certified medical assistant. They will learn how to conduct patient intake, accurately document care, and perform screenings. Students will explore safety protocols, infection control, and emergency response procedures.

Child Development & Parenting A/B

As adulthood and its accompanying responsibilities become closer for many of your students, this one-semester course with 12 lessons introduces them to the basics of parenting. Students will learn the nuances of parenting including learning about prenatal and postnatal care and gain insights on the nurture of children.



Computing for College & Careers A/B

This course is designed to enable students at the high school level to develop basic computer skills that they can use during their college education and also in their careers. This course is designed to enable all students at the high school level to develop the critical skills and knowledge that they will need to be successful in careers throughout their lives.

Emergency Medical Responder

Emergency Medical Responder is a one-semester course that introduces you to EMS systems, roles, responsibilities, and legal, ethical, and safety considerations in prehospital care. Students will develop communication, documentation, and other professional skills essential in emergency settings.

Emergency Medical Technician

Emergency Medical Technician, Semester A, is the first part of a two-semester course. This course begins with an introduction to emergency medical services (EMS), exploring the history, components, and operational standards of EMS systems.

Exploring Agricultural Science & Business A/B

Exploring Agriculture Science and Business is a two-semester course designed to focus on the role of agriculture and its impacts on society and the concepts of sustainable agriculture, agribusiness, and agricultural mechanics. Students will learn about the plant lifecycle, characteristics of livestock, food sources, nutrition, and food safety principles.

Introduction to Veterinary Science

In the Introduction to Veterinary Science course, you will explore the history of veterinary science, and the skills and requirements for a successful career in the veterinary industry.

Introduction to Military Careers

This course is a single semester course that describes the different careers offered by the US military and its branches. This course begins by describing the US military, including its branches, history, and organizational structure. In this course, students will also learn about the different occupations offered by the military branches and the qualifications required for them.



Electives

Artificial Intelligence

The course Artificial Intelligence is a single-semester course that explains the evolution of Artificial Intelligence and its scope in the future. This course also describes how Artificial Intelligence is used in fields such as games, speech recognition, and computer vision. In this course, you will learn about different types of intelligent agents and their environments.

Foundation of Artificial Intelligence

Foundations of Artificial Intelligence, Semester A, is the first part of a two-semester course. In this course, you will learn about the key concepts of artificial intelligence (AI). You will outline the history of AI and examine key AI areas, such as machine learning, natural language processing, and computer vision. You will examine data types and data storage, and create databases. You will organize and analyze data and create visual representations. You will evaluate sensing mechanisms and perception systems. You will evaluate various machine learning model types. You will learn how to train and evaluate a classification model. You will also examine datasets and address data bias in models. Finally, you will examine neural network types and their real-world applications.

Life Skills

This course allows students to explore their personality type and interests, as well as refine important skills that will benefit them throughout their lives, including personal nutrition and fitness skills, time & stress management, communication & healthy relationships, goal setting, study skills, leadership and service, environmental and consumer health, and personal finances.

Psychology A/B

These courses give your students an overview of the history of psychology while also giving them the resources to explore career opportunities in the field. Students will learn how psychologists develop and validate theories and will examine how hereditary, social, and cultural factors help form an individual's behavior and attitudes.

Sociology

In this course, students will explore the evolution of sociology as a distinct discipline while learning about sociological concepts and processes. They will learn how the individual relates to and impacts society. Students will also learn about the influence of culture, social structure, socialization, and social change on themselves and others.



World Languages

French 1 A/B

These courses are based on a researched scope and sequence that covers the essential concepts of French. Class discussions provide an opportunity for discourse on specific topics in French. A key support tool is the Audio Recording Tool that enables students to learn a critical skill for French: listening and speaking.

French 2 A/B

Each of these semesters is designed to build on the principles mastered in French 1 and use a combination of online curriculum, electronic learning activities, and supporting interactive activities to fully engage learners.

German 1 A/B

As with all Edmentum world language courses, German 1 A and B address two primary issues: providing a meaningful context that encourages learners to think in the target language as much as possible; and introducing grammatical concepts without over reliance on grammatical analysis.

German 2 A/B

According to *The Economist* and the Census Bureau, German-American is America's largest single ethnic group, with over 46 million Americans claiming German Ancestry. German 2 A and B tap into learners' latent interest in their cultural past, present, and future.

Spanish 1 A/B

Spanish is the most spoken non-English language in U.S. homes, even among non-Hispanics, according to the Pew Research Center. There are overwhelming cultural, economic, and demographic reasons for students to achieve mastery of Spanish.

Spanish 2 A/B

Spanish 2A and B utilize three assessment tools that are designed specifically to address communication using the target language: Lesson Activities, Unit Activities, and Discussions.



Visual, Performing, and Applied Arts

Art History & Appreciation

This course explores the main concepts of art, expression, and creativity as it helps students answer questions such as what is art; what is creativity; and how and why people respond to art. It covers essential design principles such as emphasis, balance, and unity.

Audio Video Production 1 A/B

This course is designed to enable all students at the high school level to learn the basics of audio video production. The course will help the students develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities.

Audio Video Production 2 A/B

This course is designed to enable students at high school level to develop the knowledge and skills related to audio video techniques that they can use in their careers. This course discusses the elements of audio video production, pre production activities, media production techniques, and postproduction activities.

Culinary Arts A/B

This course is designed to enable all students at the high school level to learn the basics of culinary arts. Students will trace the origin and development of the culinary arts. They will also discuss important contributions made by chefs, notable culinary figures, and entrepreneurs. They'll analyze how trends in society influence trends in the food service industry. In addition, they'll examine the social and economic significance of the food service industry.

Digital & Interactive Media

These courses will cover careers, training, and emerging technologies in digital media. This course familiarizes you with the concepts involved in digital media, such as graphic design, digital photography, principles of design, and digital printing. This course also covers copyright laws and fair use involved in digital media.

Music Appreciation

In a time of an increasing emphasis on STEM courses and skills, it remains essential to provide your students with opportunities to explore the arts from both an informational and career-oriented perspective. In Music Appreciation, students will explore the history



and evolution of music, learn the elements of music and musical notations, and the contributions of popular music artists and composers.

Professional Photography

This course will cover various topics in photography, such as history of photography, types of photography, types of camera, camera support equipment, types of camera lenses, exposure, lighting setups, rules of composition, color photography, storing and manipulating images, copyright laws and fair use, and printing photos.

Visual Arts

This course is designed to enable all students at the high school level to familiarize themselves with different types of visual arts. The students will explore units in Creativity and Expression in Art, Elements of Art, History of Art, Cultural Heritage of Art, Drawing, Printing, Painting, Graphic Design and Illustration, and Multimedia.

Health

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

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.

8/15/26