

Montabella High School

2020-2021 Course Offering Guide

Arts/Vocational

Art I

Students will explore and study creative minds throughout history and today. Students will learn how to tap into their creative side, solve visual problems and create art as well as learn about why art is important in our world. Students will learn the language of art in order to critique and effectively express themselves through verbal and written activities. Students will also explore fundamental art technique and mediums.

Art II

Art II is an advanced art class which allows students to focus on advanced two and three dimensional mediums in order to practice specialized skills. Students will explore different avenues of visual communication, self-expression, and creative problem solving through the creation of original art. Students will also learn how to draw inspiration from historical artists and art movements. Craftsmanship, technique and composition will be emphasized in this class.

Band

First semester will focus primarily on marching band, and second semester will focus on concert band. Students are required to participate in all public performances and are encouraged to participate in the pep band at the varsity basketball games.

Ensemble

Students will engage in a variety of musical activities on a smaller scale than traditional band. They will work in groups of two to five without a conductor to perform songs and arrangements. This class is geared toward higher level and advanced band students.

Essence of Stage

Essence of Stage will give the students a broad based survey of theatre arts; instill an appreciation of theater and explore specific aspects of the theater. Students will execute class projects in costume, set design, and make-up special effects. This course will be a chronological study of Theatre beginning with Post WW1 to present day. In this course students will explore famous theatrical productions and be introduced to well known plays and styles of the play writes.

Graphic Arts

Explores different ways to do art with technology. Students will use different tools, such as 3-D printing, special computer programs, and other methods to create a variety of masterpieces.

Music Appreciation

Music Appreciation is a course in which a student will be introduced to the basics of music theory. Students will also be introduced to the history of music from the Middle Ages moving forward and how it all relates to the music we have today. An emphasis on how to listen to music and appreciate the many different types of music that have been produced over the years will also be stressed during the course of the class during the semester.

Woodshop I

An introduction to tools and machines with an emphasis on craftsmanship.

Adv. Woodshop

Prerequisite: Woodshop I

Construction

An introduction to basic home building. The class is designed around the construction of a scale model of a home.

Home Maintenance

Students will be introduced to electrical/wiring, plumbing, drywall, repair, etc.

Mechanical Drafting

An introduction to the use of basic drafting tools and concepts. The majority of class work will be focused on problem solving in Three View and Isometric drawings.

Architectural Drafting

An introduction to residential architecture. Students will design and draw a plot plan, floor plan, and elevation drawings. The class is designed to enhance the student's ability to understand home design and construction.

Computer/Technology

Computer Applications

Students will get an introduction to spreadsheet design, database design, and Power Point. More in-depth study of graphic and photo work, with programs such as Adobe Photoshop Elements. Photo design for internet use will also be incorporated in the class.

Web Design

Prerequisite: Teacher Approval

Students will learn how to create and maintain a web page. Students will learn html, FrontPage, and Flash.

Yearbook

Prerequisite: Teacher Approval

This course will give you working experience in how a book or magazine is actually produced and financed; plus gives you hands on use of the computer in the publishing world.

Adv. Computer Applications

Advanced Computer Applications class will cover topics in Digital Audio, Digital Video, and a more intense look at Digital Graphics and Animation. This class is designed for students in upper grades that have some knowledge of computer use and programs. This is not a class for freshmen that have not yet shown the ability to work independently. The majority of the class will be computer animation using Flash, and graphics work with Photoshop Elements.

English – Required

English 9 A & B - Required

A required English class to be completed before graduation, with emphasis on reading, writing, and thinking skills.

English 10 A & B - Required

A potpourri of literary and grammatical explorations designed to broaden the student's understanding and enhance his or her communication skills.

English 11 A & B - Required

A course in American literature with emphasis in reading comprehension and writing skills.

English 12 A & B - Required

This class provides a study of major literary works with emphasis on interpretative theme writing. Students will use real practical skills and learn how to interpret financial documents, legal documents, and other useful materials encountered in life.

Senior Project - Required

This project-based class requires students to complete a student-selected project (minimum of 20 hours), a research-based annotated bibliography, and a portfolio. Students will present their work in front of a panel of judges using a slideshow.

English – Elective

Creative Writing

Creative Writing is a course designed for students to explore a variety of writing types so that he or she may learn to produce original work in multiple genres. The class will study a variety of essays as well as the content standards for short stories, plays, poetry, editorials and novels, and creative non-fiction. This class does not count towards the English requirement.

Forensics

This course is an exploration into how communication affects our daily lives. We will focus on improving daily interpersonal communication skills and begin understanding the key components of public speaking. We will also explore different types of public communication. We will also explore the aspects of competitive public speaking or forensics.

Intro to Public Speaking

This course is an exploration into how communication affects our daily lives. We will focus on improving daily interpersonal communication skills and begin understanding the key components of public speaking. We will also explore different types of public communication. We will also explore the aspects of competitive public speaking or forensics .

Reading Appreciation

This is a course in individualized reading that will require each student to read several different required genres of literature. Each reading will have an associated project. In addition to the required readings, the student will also choose 2 novels of their own preference. The goal of this class is to expose students to different types of literature to encourage them to be lifelong readers. This class does not count towards the English requirement

Young Adult Literature

This course is intended to offer you opportunities to broaden your knowledge of young adult literature while developing numerous reading strategies. Students will also appreciate and understand how to discuss and connect a young adult novel to a student's life.

English Lab

English Lab is an at-risk intervention program. This program is built around the ELA common core standards with the target focus of getting students up to grade level within these standards. In the class, students will read, write and discuss daily. Students will also work on word recognition and vocabulary acquisition at grade level on weekly basis.

Title I ELA

Basic English and reading comprehension skills. The emphasis is to improve literacy skills and move students to grade level.

Foreign Language

Spanish I A & B

Spanish I provides students with a general introduction to the Spanish language: pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. This is completed using different practices that highlight the four modes of communication: speaking, reading, writing, & listening.

Spanish II A & B

Prerequisite: Spanish I

Spanish II builds upon knowledge gained in Spanish I, also reinforcing practice with the four modes: listening, speaking, reading and writing. There is an emphasis on perfecting pronunciation, mastery of the basic grammatical structures (as well as introduction to more complex grammatical structures), and increased communicative proficiency.

Spanish III A & B

This course is an elective for students who have completed Spanish I and II, and have an interest in further knowledge of the language.

Spanish Cultures

This course offers an exploration of art, music, holidays, food and dance that are native to Spanish-speaking peoples. Students will have a chance to compare and contrast habits and traditions of their own culture to practices of those in other parts of the world. Through investigating certain traditions/ customs and even partaking in a few hands-on activities, students will learn that other countries may do things differently; not that its right or wrong, just different.

Health/Physical Education

Health - Required

Positive attitudes toward your own health and total well-being will be developed. With the assistance of the teacher, you will develop personal health practices and consumer health skills; examine emotional and mental health; prepare for personal growth and development; investigate family health; investigate the effects of substance use and abuse; practice disease prevention and control; assess your nutritional needs; and demonstrate CPR techniques and safety precautions. Communication skills will be a large part of this program.

Physical Education- Required

A required class for all high school students which teaches basic skills in a variety of physical activities and strives for a maximum fitness level through circuit training and weight training.

Healthy Living

This course explores all the aspects of living a healthy life. From nutrition to personal choices. Students learn how to be a healthy and productive member of society.

Personal Health & Fitness

Prerequisite: Physical Ed.

Several weeks will be spent in the classroom learning about the body, how it works, and how to make it work at its best. Fitness levels and nutritional habits will be assessed and programs design to improve both. Students will use all recorded activities throughout the trimester to complete a final project.

Lifetime Sports

In this class, students will review/learn many games and activities that are practiced through people's lives. Non-competitive attitudes, having fun, fair officiating, and getting along within teams are stressed. Some activities are speed walking, jogging, weight lifting, bocce ball, golf, ping pong, jumping rope, aerobics, and volleyball.

Mathematics – Required

Algebra I A & B

Basic Algebra I concepts including graphing and factoring will be covered.

Algebra II A & B

Prerequisite: Algebra I or Algebra IB

A continuation of algebraic concepts.

Advanced Geo/Trig A & B

Prerequisite: Algebra II

This course will have an emphasis in trig and geometry using the concepts of Algebra II and will prepare students for Math Analysis. Recommended for students planning to attend college.

Advanced Integrated Math

Advanced Integrated Math is a mix of topics and standardized test reviews. There will be a strong emphasis on Mathematical Modeling. The following math components will be taught during the class: Functions, Polynomial and Rational Functions, Powers, Exponents, and Logarithms, Trigonometry, Circle Trigonometry and Trig Identities, Series and Sequences, Conic Sections, and Probability and Statistics.

Calculus

Prerequisite: Math Analysis

AP Calculus is an advanced math course designed to prepare students for college math.

Geometry/Trigonometry A & B

Prerequisite: Algebra I or Pre-Algebra

This course will cover a variety of geometric concepts in a plane and in space, including a brief study of

trigonometry.

Math Analysis A & B

Prerequisite: Adv. Geo-Trig

Advanced topics for students who are planning on math, science or technical careers.

Senior Math

Senior Math is an integrated course with a strong emphasis on math applications. Topics covered include fractions, decimals and percents with business applications and Trig with geometric applications. Units in probability and statistics with applications are also included.

Mathematics – Elective

Accounting

This course is an introduction to accounting practices and principles. The student will learn accounting terms, practices, and principles as related to a service business organized as a sole proprietorship.

Baseball and Mathematics

This class is designed to incorporate math concepts in real world problems and activities using sports to spark interest in students. Students will look at many different situations involving math and sports with a main focus on baseball. Math concepts that are addressed in the class: batting and pitching statistics and formulas, creating and reading graphs and charts, measures of central tendency, rates, ratios and proportions and conversions.

Business math/accounting

Students develop reports based on basic accounting standards and consumer math applications. Student activities include practice balancing a checkbook and performing basic math calculations to figure percent and interest of loans.

Math applications

Students use basic math skills in project based real world situations. Students apply knowledge with probability, statistics, measurement, and percents to make projects and presentations.

Personal Finance

Personal Finance is an applied course in budgeting and money management. Topics covered include the cost of owning a car and the cost of owning a home. Investment strategies including the stock market are also included.

Pre-Engineering

Pre-Engineering is a problem solving class designed to give students the opportunity to investigate different areas of engineering, including civil engineering, packaging, and Robotics.

MS Title One Math

Students will focus on arithmetic or computational skills with whole numbers, integers, and rational numbers. Emphasis will be on providing the students with a foundation of math skills that will allow future success in mathematics courses.

HS Title One Math:

Students will focus on arithmetic or computational skills with whole numbers, integers, and rational numbers. Students will also focus on basic algebraic concepts such as solving equations with one variable and applying

those skills to solve problems or to geometric concepts. Emphasis will be on providing the students with a foundation of math skills that will allow future success in mathematics courses.

MS Math Lab

Students will focus on basic operations with rational numbers and integers. We will also focus on pre-teaching information for their math classes and reteach information as well.

HS Math Lab

Students will focus on basic algebraic and geometric concepts. We will also focus on pre-teaching information for their math classes and reteach information as well.

Science - 3 credits required

Life Science A & B

A required class for graduation dealing with the life sciences. This course may be taken by 9th graders with approval from counselor.

Earth and Space Science A& B

Earth and Space Science courses introduce students to the study of the earth from a local and global perspective. In these courses, students typically learn about time zones, latitude and longitude, atmosphere, weather, climate, matter, and energy transfer.

Physical Science A & B

Physical Science courses involve study of the structure and states of matter. The course includes topics like: forms of energy, wave phenomenon, electromagnetism and physical and chemical interactions.

Science - Elective

Anatomy & Physiology

This course will cover terminology, body organization, tissues, and organ systems. It is a vocabulary intensive course embedded with physiological concepts.

Environmental Chemistry

This course will examine the impact science, and chemistry in particular, have on our environment and its related systems. Specific topics will include, but are not limited to, global warming, alternative fuels, genetic engineering, and nutrition. Students will use contemporary subjects to examine the social, political, economic, and ethical ramifications related to scientific discoveries.

Environmental Science

This course discusses the science of the natural world and the impact humans have on it. The main topics covered in the course include ecology, soil, natural resources, waste, conservation, and alternative energy.

Experiments in Science

This class is an inquiry-based class that introduces students to the fundamentals of experimental design. Students are instructed on the basics of experimental design and the scientific method and guided through a self-selected experiment in the areas of physics, chemistry, biology, earth science, or mathematics. Students collaborate with other students and are critiqued periodically by their peers for their experimental processes and

results, like a scientific or academic community.

Forensic Science/C.S.I.

This course will examine the use of scientific methodology and its application to forensic science. Students will use crime scene case studies to conduct realistic investigations. A basic understanding of scientific concepts will be helpful; as students will investigate, gather data, and form hypotheses related to a variety of scenarios presented to them.

Michigan Environment

Michigan Natural Resources explores the unique and rich natural resource just outside students' back doors. Topics can include: glaciations, fisheries & wildlife management, recreation, shipwrecks, minerals, and community planning.

Science Olympiad

Based around S.T.E.M. (Science, Technology, Engineering, Mathematics), this course engages students with inquiry based experiments. It is also based off the current year's Science Olympiad competitions. Students have the opportunity to explore science from many angles.

Zoology/Oceanography

A comprehensive study of animals that focuses on classification, anatomy, and evolutionary relationships. The course offers a hands-on approach to studying the anatomy and physiology of various animals. Limited to students who have passed both biology A and B.

Social Studies

US History A & B- Required

An introspective look at America from the era of Industrialization through the present that involves an integrated approach encompassing historical, geographical, and governmental disciplines.

World History A & B - Required

Students will learn about the emerging global civilizations as exploration begins in the first global age and how the advancement of civilizations will occur through the influence of trade routes and new technological developments. The eras of history studied are from 500 A.D. through the World Wars of the 20th Century.

Government & Economics - Required

An organizational and political analysis of our governmental format. An intro to the concepts of a market economy and applying those concepts through a company and computer simulation.

British History

This course covers British History from the Queen Victoria era, to Queen Elizabeth, into the present. Students will explore British politics, culture, military, and architecture, as well as, World War I and II.

Current Events

A course that examines contemporary topics that affect local, state, national, and international areas.

Geography

This class will provide historical information on locations, environments, and specifics about each U.S. region. The students will also study climates and landforms and learn how humans have adapted to different climates.

Humanities for the College Bound

The course, Humanities for college-bound, is meant to prepare high school seniors for college. This class will function like a typical large lecture –style class that a student might take in their first year of college. The course focuses on the disciplines of history, religion, literature, music, and art in America from the late 19th century until the middle of the 20th century

Psychology

This course is an introduction to the scientific study of human behavior. There is an introduction to the scientific method that serves as a function to the course. In addition to this, basic principles of the psychological processes of human development, learning, social interaction, sensation and perception, thinking, memory, and personality are presented.

World Religion

An introspective look at major world religions from their beginnings to the present that involves approaches including historical, geographical, political, social, and economic disciplines. Instructional methods used will include student-led research, lecture, student-listening, video analysis, group dynamics, Collins' writing exercises, and other various educational learning activities.

Women's Studies

An introspective look at American women from the Colonial era to the present that involves an integrated approach encompassing historical, geographical, political, economic, and social disciplines.

Miscellaneous

Guided Academics

This course teaches students how to be more successful with their current schedule through a variety of lectures pertaining to classroom behaviors/expectations and offering time during the day to complete homework .

Professional Skills

This is a course that will help you be a more prepared, organized, and high-achieving student. Not only does this course offer extra time to study and work on class work, but will also provide mini-lectures and activities to better yourself in the school setting.

Peer to Peer

The primary purpose of this class/ program is to provide a support system for students with disabilities. The intent of this class/program is to involve special education teachers, general education teachers, administrators, general education students, as well as other providers, to enhance opportunities for students with disabilities.

Vocational Programs

CAREER CENTER PROGRAMS

Agriscience	Diesel Equipment & Technology
Automotive Technology	Educational Careers
Computer Aided Drafting & Design/Engineering	Engineering
Construction Trades	Health Sciences
Public Safety	Welding Technology

Students must fill out an application for all career center classes. Applications are available in the counseling office.

*Students may only sign up for Co-op if they have completed a Career Center course, or if they are enrolled in co-op and career center during the same semester. Students who wish to take co-op must see the counseling department for approval and an application.

COMMUNITY-AS-SCHOOL - Open to Grades 11-12

Community-As-School (CAS) is Montabella's work-study program open to 11th and 12th grade students. It is a trimester length program of on-the-job work experience and training in a student's career interest area. Students must be responsible and eager to learn job skills. Students need to plan CAS into their Educational/Employment Development Plans (EEDPs).

CAS positions are available in a variety of career fields and more are being developed each year. Students may view a catalog of resources at www.montabella.com.

The following are just a few examples of CAS assistant positions:

Clerical Office	Dental Hygienist	Financial
Floral Designer	Funeral Director	Medical Billing
Medical office	Pastoral	Preschool Teacher
Probation Officer	Radiologist	Restaurant Manager
Secretarial	Taxidermist	Veterinarian

Students interested in attending the Career Center or CAS need to plan their high school requirements carefully to allow time in their schedules to be out of the building. Be sure to discuss these options with the high school counselor.

DUAL ENROLLMENT

Juniors and Seniors who have been endorsed at students who have achieved the correct scores on the placement test may be eligible to take classes at local colleges for high school and college credit. Classes must be academic in nature or directly related to their career pathway. The school district pays tuition for these classes, as long as the student has taken the most advanced class offered at Montabella High School or at the Montcalm Area Career Center in that subject area. Students are responsible for their own transportation, books, and any activity fees. See the high school counselor for more information

APEX ON LINE CLASSES

On-Line offerings may be available to students who require basic classes, additional skills, or credit recovery. These classes will be approved on an individual basis by the counselor/principal.

Classes will be available through APEX Learning for students who are interested in online learning at Montabella High School. The material for these classes are provided by APEX Learning and monitored by designated school personnel. These classes are NCA endorsed and taught by specially trained Michigan teachers. These classes use multi-media interaction activities and involve students in group work through chat lines and boards. Students taking on line classes need to have basic computer skills and be self-motivated. See next page for course options.

Confidently meet the requirements for credit-bearing courses for both original credit and credit recovery with standards-based digital curriculum.

English	Core	Prescriptive	Honors	AP/IB
English Foundations I		✓		
English Foundations II		✓		
English 6	✓			
English 7	✓			
English 8	✓			
English 9	✓	✓	✓	
English 10	✓	✓	✓	
English 11	✓	✓	✓	
English 12	✓	✓	✓	
English Language and Composition				✓
English Literature and Composition				✓
Creative Writing *	✓			
Media Literacy *	✓			
Reading Skills and Strategies *	✓			
Writing Skills and Strategies *	✓			

Science	Core	Prescriptive	Honors	AP/IB
Science Foundations		✓		
Science 6	✓			
Science 7	✓			
Science 8	✓			
MS Physical Science	✓			
MS Life Science	✓			
MS Earth and Space Science	✓			
Earth Science	✓			
Environmental Science	✓	✓		✓
Physical Science U	✓	✓		
Biology	✓	✓	✓	✓
Chemistry	✓	✓	✓	✓
Physics	✓	✓	✓	
The Living Earth	✓	✓		
Chemistry in the Earth System	✓	✓		
Physics of the Universe	✓	✓		

Math	Core	Prescriptive	Honors	AP/IB
Math Foundations I		✓		
Math Foundations II		✓		
Math 6	✓			
Math 7	✓			
Math 8	✓			
Algebra I	✓	✓	✓	
Geometry	✓	✓	✓	
Algebra II U	✓	✓	✓	
Mathematics I	✓	✓		
Mathematics II	✓	✓		
Mathematics III	✓	✓		
Precalculus	✓		✓	
Calculus AB				✓
Statistics				✓
Fundamental Math	✓			
Introductory Algebra	✓			
Financial Literacy *	✓			
Mathematics of Personal Finance	✓			
Probability and Statistics	✓	✓		
Bridge Math	✓			
Liberal Arts Mathematics I	✓	✓		
Liberal Arts Mathematics 2	✓			

Social Studies	Core	Prescriptive	Honors	AP/IB
MS Contemporary World	✓			
MS World History	✓			
MS U.S. History	✓			
MS Civics	✓			
Geography and World Cultures *	✓			
World History	✓	✓	✓	
World History to the Renaissance	✓			
Modern World History	✓	✓		
U.S. History	✓	✓	✓	✓
U.S. History to the Civil War *	✓	✓		
U.S. History since the Civil War	✓	✓		
U.S. Government and Politics *	✓	✓	✓	✓
Economics * U	✓	✓		
Macroeconomics *				✓
Microeconomics *				✓
Multicultural Studies *	✓			
Sociology *	✓			
Psychology*	✓			✓

CTE-Career and Technical Education
Accounting I
Accounting II
Business Applications *
Computer Applications *
Human Resources Principles
Information Technology Applications *
Introduction to Business and Technology
Legal Environment of Business
Principles of Business, Marketing, and Finance
Principles of Health Science
Principles of Information Technology

World Languages	
Spanish I	P
Spanish II	P
Spanish III	
AP Spanish Language	
French I	
French II	
Mandarin Chinese I **	
Mandarin Chinese II **	
German I **	
German II **	
Latin I **	
Latin II **	
MS Spanish I **	
MS Spanish 2 **	
MS French 1 **	
MS French 2 **	
MS Mandarin Chinese 1 **	
MS Mandarin Chinese 2 **	
MS Latin 1 **	
MS Latin 2 **	
MS German 1 **	
MS German 2 **	

Additional Electives
College and Career Preparation I *
College and Career Preparation II *
Art Appreciation *
Music Appreciation
Physical Education *
Health *

P Prescriptive also available
 U Updated

* One semester
 ** Available only through Apex Learning Virtual School (ALVS)