# MONTPELIER HIGH SCHOOL COURSE DESCRIPTIONS

**2026/2027**

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## ART

*Specialized art classes are dependent upon enrollment numbers.*

### ART APRECIATION

*Length:* *One Semester*
*Credit:* *.5*
*Fee:* *$30*

This course explores the major areas of art which include, drawing, painting, printmaking, sculpture, clay work, and digital media. You will learn the terms and practice techniques that are required for specialized art classes.

### DIGITAL ART

*Length:* *One Semester*
*Credit:* *.5*
*Fee:* *$30*

This class focuses on learning the photoshop program and applying it to create digital works of art. You will learn how to use the program to design digital media. You will learn photography editing, drawing programs, logo design, and character design.

### DRAWING

*Length:* *One Semester*
*Credit:* *0.5*
*Fee:* *$30*
*Prerequisite: Must pass Art Appreciation OR 8th grade art with a C or better*

This class focuses only on the different drawing and printing techniques. These skills are built on previous knowledge from Art 1/Art Foundations. Students must be creative and be willing to try new techniques and skills.

### SENIOR ART

*Length: Full year with teacher approval*
*Credit: 1.0*
*Fee: 320*
Must be able to apply independent thinking skills and have your own original ideas. This class will be student driven and focus on the individual skill sets of each student.

### GLASS/JEWELRY

*Length:* *One Semester*
*Credit:* *.5*
*Fee:* *$50*
*Prerequisite: Must pass Art Appreciation OR 8th grade art with a C or better*

This class focuses on both jewelry and glass techniques. One quarter is spent creating jewelry and the other quarter is spent working with glass. Students must be creative and be willing to try new techniques and skills.

### PAINTING

*Length:* *One Semester*
*Credit:* *.5*
*Fee:* *$30*
*Prerequisite: Must pass Art Appreciation OR 8th grade art with a C or better*

This class focuses only on the different painting techniques. These skills are built on previous knowledge from Art 1/Art Foundations. Students must be creative and be willing to try new techniques and skills.

### POTTERY

*Length:* *One Semester*
*Credit:* *0.5*
*Fee:* *$30*
*Prerequisite: Must pass Art Appreciation OR 8th grade art with a C or better*

This class focuses only on the different clay and sculpture techniques and skills. These skills are built on previous knowledge from Art 1/Art Foundations. Students must be creative and be willing to try new techniques and skills.

### WORLD CRAFTS

*Length:* *One Semester*
*Credit:* *.5*
*Open To:* *All Students*
*Fee:* *$30*

This class focuses on different crafts present in our culture and from cultures around the world. You will learn how to use patterns, special painting techniques, design techniques, and materials that are more craft based. You do not need to take Art I to take this class. After completion of this class you **MAY NOT** take other art classes until you take Art I.

## BUSINESS AND TECH

### ACCOUNTING

*Length:* *One Year*
*Credit:* *1.0*
*Open To:* *10th-12th graders*
*Fee:* *$15.00*

Accounting is the language of business and an integral aspect of all business activities. Mastery of fundamental accounting concepts, skills, and competencies is essential to making informed business decisions. Regardless of students' chosen course of study or career path, accounting prepares them to be educated business professionals and informed consumers. This course will focus on the management of a company's financial resources including the accounting cycle, financial statements, and interpretation and use of financial data.

### LAUNCH AND LEAD-BUSINESS, SPORTS, AND LEADERSHIP

*Length:* *One Semester*
*Credit:* *.5*
*Open To:* *All Students*

Launch & Lead is designed for students who want to create, promote, and manage. This course blends entrepreneurship, marketing, and sports/entertainment management principles. Students will develop business ideas, learn how to market products and events, manage teams, and understand the operations behind sports organizations. Emphasis is placed on leadership, creativity, and real-world application.

### FINANCIAL LITERACY

*Length:* *One Semester*
*Credit:* *.5*
*Open to:* *All students*

This course will focus on the basis for what all students should know and be able to do to be informed consumers by the time they graduate from high school. The course will help students develop the ability to make informed and reasoned financial decisions for themselves and prepare students for their role as consumers and decision makers in society.

### TECHNOLOGY I

*Length:* *One Semester*
*Credit:* *.5*
*Open To:* *All Students*

Technology 1 will serve as an introduction to applications that students should be proficient in to succeed in High School. Students will explore the basics of computer programming, Cloud Computing, and Digital Design. Students will begin to learn to use tools that focus on Computer Aided Design and 2D Computer Aided Manufacturing. Students will successfully complete multiple projects during the course of the semester.

### TECHNOLOGY II

*Length:* *One Semester*
*Credit:* *.5*
*Open To:* *Students who completed Tech I*

Technology 1 is a prerequisite for Technology 2. Technology will build upon the skills that students have learned in Technology 1. Projects will be more student lead and student driven. Students will focus on additive and subtractive Computer Aided Manufacturing. Students will also explore concepts of photo editing and web-design.

### HYPE & HIGHLIGHTS

*Length:* *One Semester*
*Credit:* *.5*

Get ready to dive into the world of media production! In Hype & Highlights**,** you'll learn the art of creating attention-grabbing social media posts and high-energy hype videos. Whether you're showcasing game-winning moments, behind-the-scenes action, or promoting a school club, this course teaches you how to harness video editing, storytelling, and digital marketing techniques to captivate your audience. Through hands-on projects, students will explore camera techniques, editing software, and social media trends to produce content that excites, engages, and elevates athletic performance as well as engages the readers on what is happening within the school. By the end of the course, you'll have the skills to create powerful social media content that boosts team spirit, builds athletic profiles, and makes a lasting impact online. Students interested in this class should expect to spend time outside of school to record at various school events.

## FOREIGN LANGUAGE

### SPANISH I, II, III, and IV

*Length:* *One Year*
*Credit:* *1.0*

### SPANISH I

Identify the main idea in things they read and hear with a lot of support from pictures and body language. Use memorized words, phrases and questions. Use manners and gestures to clarify meaning. Use memorized words and phrases with pictures and/or graphs etc. to make very short presentations

### SPANISH II

Identify the main idea in things they read and hear with some support from pictures and body language. Use memorized words, phrases and questions. Use manners and gestures to clarify meaning. Use memorized words and phrases with pictures and/or graphs etc. to make short presentations. Add to their stock of memorized words, phrases and questions. Start to mix memorized language to create original phrases and questions

### SPANISH III AND IV

Identify the main idea and some details in short and simple things they read and hear. Mix memorized words, phrases and questions from a larger stock into original language. Use words to clarify meaning. Make simple presentations with original language. Add to their stock of memorized words, phrases and questions. Engage in short, partially original conversations.

### OL SIGN LANGUAGE

*Length:* *One Year*
*Credit:* *1.0*

This online course teaches students beginning skills in sign language. It is an independent curriculum that students will learn online through NOVA.

## LANGUAGE ARTS

### ENGLISH 9

*Length:* *One Year*
*Credit:* *1.0*

The class concentrates on improving reading and comprehension, grammatical skills, and writing ability. Assignments will consist primarily of reading short stories, poems, and non-fiction, to discuss, write, undergo vocabulary and grammar exercises based on readings. Students will read two non-fiction novels and study the development and importance of the novels. Also, they will read a Shakespearean play, Romeo and Juliet. Students will complete four book projects. Three of the book projects will be presented in front of the class. Students will improve listening skills and recognize non-verbal communication. Students will organize ideas for their book project speeches and will also recognize and overcome stage fright.

### ENGLISH 10

*Length:* *One Year*
*Credit:* *1.0*

The class concentrates on improving each student's reading ability and comprehension, grammatical skills, and writing ability. Fundamental skills in grammar are reviewed. In writing, the mechanics of capitalization, punctuation, spelling, and vocabulary are emphasized and writing assignments are assigned frequently. The study of literature concentrates on short stories, poems, a non-fiction novel, and one Shakespearean play, Julius Caesar. Students will improve verbal communication skills and recognize audience analysis is an essential step in public speaking

## GENERAL ENGLISH 11

*Length:* *One Year*
*Credit:* *1.0*

This course is geared to the student who does not intend to further education at a four-year college. Standard English will be reviewed as will the mechanics of capitalization, punctuation, spelling, and vocabulary. There will be many writing assignments, including research based assignments, literary analysis, and personal writings. Short stories, novels, and non-fiction (autobiographies, biographies, and essays) will be used to develop reading comprehension. Students will be encouraged to develop vocabulary skills, and spelling will be emphasized. Students will also participate in discussions and interviews. Also there will be a comprehensive career unit that will last the whole semester.

## GENERAL ENGLISH 12

*Length:* *One Year*
*Credit:* *1.0*

This course is intended for students who will be attending a two-year college, joining the military, or entering the workplace. Students will write essays, letters, stories, and reports, and read novels, short stories, and drama. Students will be encouraged to develop reading and writing skills throughout the course. Students will present a variety of speeches as well as complete a variety of writing assignments.

## CP ENGLISH 11

*Length:* *One Year*
*Credit:* *1.0*

This course is intended for students planning on attending college. Writing is stressed throughout the year. Students will complete informative, persuasive, narrative, and analytical essays. Students will read and analyze *Macbeth, Frankenstein, The Great Gatsby,* and *I Know Why the Caged Bird Sings.* The mechanics and processes of writing are stressed, as is the development of critical thinking skills. Rhetorical analysis will also be a major unit. Along with writing, students will participate in discussion and presentations throughout the class.

## CP ENGLISH 12

*Length:* *One Year*
*Credit:* *1.0*

This course is intended for those students who will be attending college. A continuation of C.P. English 11, the course stresses writing across the curriculum in preparation for college composition classes. Major essays will include argumentative, informative, narrative and literary analyses. Students will also read and write literary essays based on *Hamlet, For Everyone,* and *The Scarlet Letter*. Students will conduct debates, lead discussions, and take part in other in-class presentations.

## CCP COMPOSITION I

*Length:* *One Semester*
*Credit:* *1 high school & 3 college*
*Prerequisite:* *Must be accepted to NSCC*

This course is only offered if enough students sign up. An expository composition course emphasizing the expectations of college-level writing, including thesis development, support, and coherence. Students will gain experience using a variety of rhetorical modes. In addition to a number of full-length essays, a short documented paper, based on research materials and using parenthetical references, is required.

## CCP COMPOSITION II

*Length:* *One Semester*
*Credit:* *1 high school and 3 college*
*Prerequisite:* *Must have earned a C or better in ENG 111.*

This course is only offered if enough students sign up. Building on the skills learned in Composition I, this course further develops the student's writing and research experience, with an emphasis on analytical writing in response to critical reading and class discussion. Using MLA parenthetical documentation techniques, the student will write several short essays and a research paper.

# *ELECTIVE COURSE OPTIONS*

## PODCASTING

*Length:* *One semester*
*Credit* *.5*

Students will listen to different types of podcasts. They will analyze the production and writing of the podcast, which includes but is not limited to, the purpose of and the design of the podcast as well as the elements of the speaker. They will also design their own podcasts, focusing on planning, interviewing, story-telling, recording and editing, and possibly distributing.

## PODCASTING II

*Length:* *One semester*
*Credit* *.5*
*Prerequisite:* *Podcasting I*

This class is a continuation of Intro to Podcasting where students will create a podcast series (15-18 podcasts total). This series will be published once a week for Montpelier listeners.

## TOMORROW'S LEADERS

*Length:* *One Semester*
*Credit:* *.5*

Tomorrow's Leaders is a course that focuses on preparing students to be leaders in our school, community, and society. This course will require students to delve into their inner self to find the leader within. The purpose of this course is to help students build self-confidence, empower them to succeed, lead them to the next level of leadership, and teach them how to influence others in a positive, selfless manner. To be eligible for this course, students are required to fill out the application with teacher recommendations.

## YEARBOOK

*Length:* *One Year Independent Study*
*Credit:* *1.0*
*Open To:* *9th- 12th graders*

An elective course for students interested in participating in the production of the Montpelier High School annual. Emphasis is placed on actual production of the annual. Experience will be gained in the following areas: Planning and techniques of good layouts, types of design, basics of photography, cropping photographs, typography and copy preparations, financial planning, advertising and sales. This will be an independent study. Extra-curricular time will be required.

# MATHEMATICS

## ALGEBRA I

*Length:* *One Year*
*Credit:* *1.0*

Algebra is a natural outgrowth of arithmetic. Up to now work in mathematics has been mostly arithmetic with some simple geometry and formula work. Arithmetic deals with definite problems while algebra deals with those same problems in general. One of the main objectives of algebra is to make a transition from arithmetic, by thinking in terms of numbers alone, to principles of algebra dealing primarily with numbers and letters (variables) in the equation. Since algebra is cumulative, much time is spent in teaching the student how to approach and study new concepts and to recall concepts previously studied. Student should understand that completed homework is a necessity for course completion.

## STATISTICS & PROBABILITY

*Length:* *One Year*
*Credit:* *1.0*
*Prerequisite:* *Algebra I, Geometry, Alg. II*

Statistics will introduce students to data distribution and probability. Students will explore a wide range of representations and concepts to build logic and reasoning around collecting and analyzing data. This course could replace Algebra II.

## GEOMETRY

*Length:* *One Year*
*Credit:* *1.0*

The basic objectives for the study: 1) it gives the student a chance to develop his understanding of mathematical proof 2) it provides an understanding of plane and space relationships 3) it helps to develop the student's sense of logic as applied at everyday living 4) it further develops concepts of arithmetic and algebraic operations. The course of geometry teaches the student how to think clearly. Geometry's practical value will be of use later, especially for those planning to pursue the professions of law, medicine, art, design, or any of a multitude of others. The habit of thinking properly can be acquired through geometry. Greater evaluation of what is read and more intelligent conversation can be acquired from the study of geometry. Logic is a by-product of geometry.

## APPLIED ALGEBRA II

*Length:* *One Year*
*Credit:* *1.0*
*Prerequisite:* *Algebra I & Geometry; teacher recommendation only*

This course will use algebra concepts applied to the everyday work force, with a concentration on the technical aspect of measurement.

## ALGEBRA II

*Length:* *One Year*
*Credit:* *1.0*

This course will build off of the skills and applications of Algebra I. It is designed to help students build reasoning in mathematics. Algebra II will cover expressions and equations that include linear, quadratic, polynomial, and exponential functions. Students will build on their knowledge of graphically representing different contexts.

## PRE-CALCULUS

*Length:* *One Year*
*Credit:* *1.0*

Pre-Calculus deals mainly with concepts that will be used in the study of college mathematics and/or calculus. Many of the Algebra II topics are studied in almost every chapter. Some of the new areas introduced include circular functions, trigonometry, application of trigonometry, sequences, series, limits, exponential and logarithmic functions, matrices, the conic sections, etc.

## CALCULUS *(IF ENOUGH INTEREST)*

*Length:* *One Year*
*Credit:* *1.0*

This class focuses on the three main topics of limits, derivatives, and integration. We'll take all of the mathematics that have been taught so far and apply them to such applications as related rates, area and volume of curved shapes, and velocity and acceleration. We will explore such fun problems as how fast the radius is increasing when a pebble is dropped in a pool of water and the ripple expands out to the sides of the pool. It's a difficult but fun course.

# MUSIC

## BAND

*Length:* *One year*
*Credit:* *1.0*
*Fee:* *$10*

High School Band builds on the skills already learned in grade 5-8 band. This course is made up of three components: Marching Band, Concert Band, and Pep Band. Students will learn about and perform music of different genres, and time periods throughout the year. Students are required to attend Band Camp for one week in August to prepare for the fall marching season. Because this is a performing ensemble, students are required to attend all performances, including scheduled football and basketball games.

## MUSIC APPRECIATION

*Length:* *One Semester*
*Credit:* *.5*

This is a non-performance, semester-long class that covers the history of music, exploring different styles and composers. Students will have the opportunity to select areas of interest and delve deeper to better understand the many different facets of music.

## BEGINNING GUITAR

*Length:* *One Semester*
*Credit:* *.5*

This course is an introduction to guitar playing. Students will learn basic fingering and notes, how to read music, basic chords, and information about the guitar. Practice outside the school day is highly encouraged.

## CARDIO DRUMMING

*Length:* *One Semester*
*Credit:* *.5*

This semester long course will get your heart-rate up through different drumming routines. Students will not only be participants in the routines, but will also create routines for different physical ability levels (i.e. healthy high school students to senior citizens).

## CONCERT CHOIR

*Length:* *One year*
*Credit:* *1.0*
*Fee:* *$10*

This class is available to any student who have a drive and passion for singing. You will learn the basics of sight-reading music and music theory along with vocal techniques to help you become a healthier singer. You must have a positive attitude, a willingness to work hard, and a desire to grow as an individual and a musician to be successful in this course. This year long course will help you learn collaboration skills, teamwork, ownership, and new styles of music. This class has mandatory performances throughout the year.

## AUDITION CHOIR

*Length:* *One year*
*Credit:* *1.0*
*Prerequisite:* *Must have director permission*

This is an audition only class where students will have the opportunity to perform more challenging music with a group of top-tier, talented individuals who are passionate about singing. This group will have many mandatory performances throughout the school year. Extra-curricular time will be required. Students in this group are required to be in Concert Choir.

## THEATER PRODUCTION

*Length:* *One Semester*
*Credit:* *.5*
*Fee:* *$10*

The purpose of this course is to provide the complete experience in behind the scene work for a show. Activities will be designed so students can learn how to research, design, and create the visual aspects of a show, including but not limited to the set, props, costumes, makeup and publicity documents. They will learn to explore the purpose of the show and the idea that desires to be expressed. This course will work towards the completion of several productions: 5th Grade Musical, 3rd Grade Musical and the High School musical, as well as other school displays. Students will work on many operations, including but not limited to: set design, costume plot design, program design, prop creation, light and sound operation and publicity. Because Theater Experience is a class that works toward final productions, students must cooperatively work with others, be industrious, and be eager to be creative.

# PE & HEALTH

## HEALTH

*Length:* *One Semester*
*Credit:* *.5*

Units of wellness, decision making in reference to drug, alcohol, and tobacco use, and their effects on each individual's quality of life, human sexuality, nutrition, and physical fitness. A textbook, notebook and audio visual aids are used to help in the instruction of healthy living.

## LIFELONG FITNESS/PE I

*Length:* *One semester*
*Credit:* *.25*

This course will provide students with opportunities to develop knowledge, skills and necessary attitudes for a lifetime of personal fitness and activity. This class promotes the development and maintenance of personal fitness and problem solving throughout life. Students will be expected to develop a physical activity program tailored to help them meet their own individualized fitness goals.

## LIEFLONG SPORTS/PE II

*Length:* *One semester*
*Credit:* *.25*

Students will be introduced to various life time sports with the purpose of developing useful and desirable skills to serve as a basis for leisure-time activities. Students will practice developing analytical thinking and judgment through guided experiences in a wide variety of meaningful and challenging activities; a sense of individual responsibility for acceptable behavior involving life time activities; a realization of the importance of leisure time activities following graduation as a means of physical fitness in future years.

## NUTRITION

*Length:* *One Semester*
*Credit:* *.5*
*Fee:* *$10.00*

This course is designed to enable students to learn how to fuel their bodies and minds to function as optimally as possible. Students will study the science of food, exercise, and psychology in how they affect an individual's overall wellness. Students will conduct experiments and prepare foods throughout the duration of the course.

## SPORTS EDUCATION

*Length:* *One Semester*
*Credit:* *.5*

Sports education class will deal with learning about a variety of different sports around the world. The main sports that are offered by Montpelier would be taught such as football, basketball, baseball/softball, wrestling, cross country, track, golf, but also sports not offered such as bowling, swimming, cricket, etc. would also be part of the class. Students would learn the ins and outs of each sport, including the rules, strategy, and actual play of the games. Also allows the ability to gain the information needed within an online course to gain OHSAA licensure through innovative and interactive course material.

## SPORTS HISTORY

*Length: One Semester*
*Credit: 0.5*

In this class, we would learn about the history of sports. Both locally and nationally. We will explore some of our very own Loco hometown heroes and/or some Williams County athletics. We will explore all different sorts of sports such as: football, volleyball, track, basketball, wrestling, baseball, softball, etc.

## SPORTS PERFORMANCE

*Length:* *One Semester*
*Credit:* *.5*
*Prerequisite:* *Should be in a sport*

Students are expected to dress each day and bring a separate pair of athletic shoes. Students will learn basic strength training methods and work towards goals that were individually set at the beginning of the year while improving their overall physical fitness. Evaluation is based on class participation, attitude, proper attire and cooperation.

# SCIENCE

## SCIENCE 9

*Length:* *One Year*
*Credit:* *1.0*
*Fee:* *$7.00*

Science 9 is a freshmen level class required of all incoming freshmen. It is physical science, with ties to chemistry, physics and the universe. Topics covered in the course include: the study of matter, atoms, bonding and the periodic table. Energy, waves, electricity, forces and motion and the history of the universe. This course will reinforce concepts learned earlier as well as introduce new topics.

## BIOLOGY

*Length:* *One Year*
*Credit:* *1.0*
*Fee:* *$15.00*

This course investigates the diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

## EARTH SCIENCE

*Length:* *One Year*
*Credit:* *1.0*
*Open to:* *11th graders*

Earth Science is designed for any student with an interest in geology. It is designed to study the following aspects of the earth: history, tectonics, the crust, erosion and weathering, landforms, rocks and minerals, and fossils. This class is activity and project oriented with written, video, and web-based work.

## CHEMISTRY

*Length:* *One Year*
*Credit:* *1.0*
*Fee:* *$15.00*
*Open To:* *11th and 12th graders*

Chemistry is intended to help those students planning on furthering their education in the areas of science, medicine and engineering. It is also offered to those students with a strong interest in science. Topics will vary from the history of chemistry to the exploration and application of chemistry in the present and future. Laboratory procedures will be stressed as will lab safety.

## CP CHEMISTRY

*Length:* *One Year*
*Credit:* *1.0*
*Fee:* *$15.00*
*Open To:* *11th and 12th graders*

Chemistry is intended to help students planning on furthering their education in the areas of science, medicine and engineering. It is also offered to students with a strong interest in science. Topics will vary from the history of chemistry to the exploration and application of chemistry in the present and future. Advanced topics will be covered in this class as a preparation to college courses with a higher work load of lab reports. Laboratory procedures will be stressed as will lab safety.

## *ELECTIVE COURSE OPTIONS*

## ASTRONOMY

*Length: One Semester*
*Credit: .5*

Astronomy is a science course that covers the different celestial bodies, space and the universe as a whole. Topics covered include: the history of astronomy, the Sun, Earth and Moon system, our solar system, galaxies, stars, the universe and space exploration. This class is a research and project-oriented class.

## FORENSICS

*Length:* *One Semester*
*Credit:* *.5*
*Fee:* *$10.00*

Forensic science is a laboratory-based introduction to the analysis of crime scenes by collecting and analyzing physical evidence. This course is designed to integrate the core scientific disciplines while giving students both theory and hands-on experience with the skills and knowledge required for a forensic crime scene investigator. This multidisciplinary approach will highlight topics in DNA, genetics, anatomy, chemistry, physics, entomology, botany, and investigative techniques with supplemental subject matter through case studies, earth science, mathematics, medicine, technology and sociology.

## FORENSICS II

*Length:* *One Semester*
*Credit:* *.5*
*Open to:* *Must complete Forensics I*
*Fee:* *$10.00*

Forensics II is laboratory-based class that will build on the topics introduced in forensics I. This course is designed to use the information gathered from forensics I and apply that to the science behind the job of a forensics crime scene investigator. This class will focus on the more in depth concepts in forensics such as DNA and genetics while building on the foundation that was set in forensics I. This is a multidisciplinary course that will use a range of science disciplines.

## HISTORY OF SCIENCE

*Length: One Semester*
*Credit: .5*

This course is designed to explore the evolution of scientific thought from ancient civilizations to the present day. It covers key figures (Galileo, Newton, Darwin), key discoveries (flight, electricity, DNA), scientific revolutions, and modern science (gene therapy, prosthetics, organ growth). It encompasses how ancient discoveries have led to the human experience we have today and how it is always changing. This course consists of hands-on activities and is project/research based.

### HUMAN ANATOMY

*Length:* *One Year*
*Credit:* *1.0*
*Fee:* *$20.00*
*Open To:* *12th graders*

This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

### PHYSICS

*Length:* *One Year*
*Credit:* *1.0*
*Fee:* *$10.00*
*Open To:* *12th graders*

Physics is primarily concerned with observation and understanding of physical phenomena. Emphasis is placed on the student's ability to appreciate and understand fundamental physical principles and to apply those principles to everyday usage. Topics studied include force, motion, work, energy, heat, waves, electricity, magnetism, sound, light, nuclear physics and limited research into advanced concepts. Laboratory experiments are scheduled on a regular basis and are designed to correlate with the classroom lectures, discussions and reading assignments. In some cases, juniors may be permitted to enroll in physics but only with permission from the instructor. It is also highly recommended that advanced math be taken concurrently with physics.

### ROBOTICS I

*Length:* *One Year*
*Credit:* *0.5*

Robotics focuses on learning computer code through the use of java language. After learning computer programming, students are required to build robots and program them to accomplish different tasks. This course will be an introduction to robotics including aspects such as autonomous robots, remote control robots, introduction to circuits, and problem solving.

### ROBOTICS II

*Length:* *One Year (Or Two Class Block)*
*Credit:* *1.0*
*Fee:* *$35.00*
*Prerequisite:* *Robotics I*

This course will build on knowledge gained from Robotics I and focus on more difficult tasks with autonomous and remote-controlled robots. This course will include a competition in Marion, Ohio called The National Robotics Challenge (NRC) and students will compete in several different events with other high school students nationwide and a few schools from other countries.

## SOCIAL STUDIES

### MODERN WORLD HISTORY

*Length:* *One Year*
*Credit* *1.0*

Global History emphasizes political economic, social, and cultural aspects of world development since 1750. We will be developing research and study skills, map skills, as well as writing and critical thinking skills. Note taking is required.

### AMERICAN HISTORY

*Length:* *One Year*
*Credit:* *1.0*

This course will study American History in the realm of world events and will focus on the time beginning with the U.S. Industrial Revolution (1870s) through the Present. Class will involve reading, taking notes, multimedia projects, class discussions, and cooperative learning, in a way to engage students in multiple learning styles. The goal of this course is to grasp the underlying themes, understand the major events, describe the contributions of diverse groups, identify the important individuals, and analyze the major decisions of each era.

### GOVERNMENT

*Length:* *One Year*
*Credit:* *1.0*
*Prerequisites:* *World and Am. Hist.*

The American Government student should understand the United States government knowing the following things: the origins, structures, and functions of the governments; the rights and responsibilities included in the Constitution, and the people who are instrumental in government. The study of state and local government should be included in this course. The student should understand the structure and function of the state and city government and the importance of the state, county, and city government.

### *ELECTIVE COURSE OPTIONS*

### PSYCHOLOGY

*Length:* *One Semester*
*Credit:* *.5*
*Open to:* *12th graders*

This class will deal with the history of psychology and the different schools of thought on psychology. The students will conduct polls and surveys. The class will be involved in some basic experimental psychology.

### SOCIOLOGY

*Length:* *One Semester*
*Credit:* *.5*
*Open to:* *12th graders*

This course will discuss how the social world guides our actions and life choices and explain how society works. It will look at how people behave in groups, recurring patterns in human behavior, and researching and questioning assumptions people make by learning to question conventional wisdom. All areas and assignments are designed for college prep seniors.

### HISTORY GOES HOLLYWOOD

*Length:* *One Semester*
*Credit:* *.5*

Films have been created which cover much of American history. This course will look at how various aspects of history are portrayed in films and contrast that with "how it really was." A major goal of this course is to determine what is valid in contemporary films and historical dramas.

# CAREER/COLLEGE READY

## TRADE SKILLS I

*Length: 1 year*
*Credit: 1.0*
*Fee: $20*

This course will focus on skills where students will use their hands. These skills will include: scaled drawing, carpentry, woodworking, electrical, and basic automotive care. This course will focus on work ethic and productivity through an environment geared toward learning to safely operate machines and work with their hands.

## TRADE SKILLS II

*Length: One Year (single or double block)*
*Credit: 1.0*
*Fee: $20*
*Open To: Students who successfully completed Trade Skills I*

This course will focus on skills were students will use their hands. These skills will include: scaled drawing, carpentry, electrical, plumbing, metal work and basic automotive care. This course will focus on work ethic and productivity through an environment geared toward learning to safely operate machines and work with their hands.

## ACT PREP

*Length:* *One Semester*
*Credit:* *.5*
*Prerequisite:* *Must be college-bound*
*Open to:* *$10^{th}$-$12^{th}$ graders*

This course is available to students who are planning to attend a four-year college/university. The focus of the course is to provide online opportunities for students to practice and study for the ACT. Students who have already taken the ACT and would like to increase their scores will find this course to be especially beneficial.

## CAREER AND COLLEGE READY

*Length:* *One Semester*
*Credit:* *.5*
*Open to:* *$11^{th}$-$12^{th}$ graders*

This course is designed to help juniors and seniors prepare for the real world. Focus will be on preparing for college or a career in the future. All activities will be implemented in order to help students be prepared for what comes after graduation.