

MONTPELIER HIGH SCHOOL

COURSE DESCRIPTIONS

2022/2023

DRIVER'S EDUCATION

Please call Northwest Ohio Driver Training School (this is the only place we can pay for) and let them know that you are a Montpelier student to set up classes. 419-682-4741 or visit

<http://www.nwdriverstrainingsch.com/>

ART ELECTIVES

ART I

Length: One Semester
Credit: .5
Open To: All Students
Fee: \$15.00

Art I is an introductory course. This course emphasizes artists and art history as inspirations for art projects. The students will create two and three-dimensional pieces that further develop their skills in each area of art. The understanding and appreciation of self and others through art is the focus of the class. Students will have the opportunity to make personal choices about the creation of their art. This course is required before taking any other level of art.

ART II

Length: One Year
Credit: 1.0
Open to: Grades 10-12
Fee: \$30

The focus in Art 2 is on EXPLORATION. This course is an opportunity to explore what was learned in Art 1. Art 2 engages students in problem solving, in a creative fashion with more freedom. In each area of art, new techniques and processes will be introduced to the student. Discussions are also a critical part of this class. Studying a variety of artists will help the student artist make individual decisions in creating their artwork. Important student qualities are a sincere desire to be part of the class, excellent attendance

and a good work ethic throughout enrollment in Art I. You must have a C or better in Art I as well as teacher approval.

ART III

Length: One Year
Credit: 1.0
Open to: Grades 11-12
Fee: \$30

The focus is EXECUTION as the student will continue to use what has been learned in the previous art classes. The ability to make personal choices regarding their art and apply independent thinking skills is a must. Critiques, group and personal discussions will be a part of the course. Information about higher education and career opportunities will be available. Important student qualities are a sincere desire to be part of the class, excellent attendance, and a strong work ethic throughout enrollment in Art 2. Teacher approval is required for this class.

ART IV

Length: One Year
Credit: 1.0
Open to: Grade 12
Fee: \$30

The focus in Art 4 is applying advanced level thinking skills in art, and applying EXECUTION and EXPLORATION in art. Only students with a strong desire to continue their growth in visual art and who have demonstrated the necessary dedication, maturity, and leadership through performance in Art 3 will be given teacher approval to pursue Art 4. Students who are approved to take this course must understand that several commitments must be honored beyond the school day, including, but not limited to weekends. Outside work on projects is a must. Other Art 4 requirements include the annual graduation program cover design and the various community projects that are requested of the department annually.

DIGITAL ART I & II

Length: One Semester
Open to: Grade 10-12
Credit: .5
Fee: \$20

This course will introduce students to digital art and design. Students will become familiar with software from Adobe. Students will create digital art, layouts and logos. Students will learn

to manipulate and edit digital photos, as well as explore character animation. The willingness to work outside of class is a must, as these projects will not be completed in class time alone. Students must have teacher approval and passed Art I with a C or better.

ART AND FILM

Length: One Semester
Credit: .5
Open To: All Students
Fee: \$10.00

This class is an introduction of how art has influenced films. With each film, you will create a project and write a paper. The artwork will use a variety of material (drawing, paint, sculpture, printmaking, etc.) This class does not count toward advanced level art classes.

SCULPTURE

Length: One Semester
Credit: .5
Prerequisite: C or better in Art I
Fee: \$20.00

This class focuses only on the different sculpting and building techniques. These skills are built on previous knowledge from Art I. 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: \$15.00

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 TECHNOLOGY ELECTIVES

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.

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.

BUSINESS ACTIVITIES

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

This course studies various aspects of business activities including marketing, retail, customer service, and sales. This class will be a combination of lecture

and discussion with projects being assigned that relate to the material being studied.

BUSINESS ENTREPRENEURSHIP

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

This course is a general introduction to the business world. Fundamentals of business organizations, entrepreneurship, and small businesses are studied. This class will be a combination of lecture and discussion with projects being assigned that relate to the material being studied.

BUSINESS MANAGEMENT

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

Building business skills and management will be the focus of this course. This class will be a combination of lecture and discussion with projects being assigned that relate to the material being studied.

MULTIMEDIA

Length: One Semester
Credit: .5

Multimedia is the combined use of text, graphics, sound, animation, and video. Students will use their creativity and skills to create and edit interactive multimedia presentations, digital images, sound, and movies, and will be introduced to animation and web pages. The knowledge and skills acquired in this class will enable students to successfully perform and interact in today's technology-driven society.

FOREIGN LANGUAGE ELECTIVES

SPANISH I, II, III, and IV

Length: One Year
Credit: 1.0

The Spanish courses meet the Ohio Learning Standards: World Languages Grades 9-12. These courses use a research-based approach to language learning that prepares learners to use their new language proficiency and an intercultural competence to communicate effectively in a global society. A world language program will

help prepare students to be successful in both college and the workplace.

We are learning the language in a sequential manner and it covers from Introductory, Level 1, Level 2, Level 3, Level 4. This course is both formally assessed as well as project based in nature.

LANGUAGE ARTS

MANDATORY COURSES

ENGLISH 9

Length: One Year
Credit: 1.0
Open To: 9th graders

The class concentrates on improving each student's reading ability and comprehension, grammatical skills, and writing ability. Assignments will consist primarily of reading short stories, poems, and non-fiction, preparing to discuss them, write about them, undergo vocabulary exercises, and grammar exercises. 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
Open To: 10th graders

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

Open To: 11th graders

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.

CP ENGLISH 11

Length: One Year

Credit: 1.0

Prerequisite: Successful completion of Eng. 9 and 10

Open To: 11th graders

This course is intended for students planning on attending a four year college. Writing is stressed throughout the year. Students will complete informative, persuasive, and expressive essays; short stories; poetry; letters; journals a formal research paper; and reading reviews. Students will also write literary essays on the play Macbeth and the novels Catcher in the Rye and The Great Gatsby. 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 class discussion and presentations throughout the class.

GENERAL ENGLISH 12

Length: One Year

Credit: 1.0

Prerequisite: Minimum 3 units English

Open To: 12th graders

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 12

Length: One Year

Credit: 1.0

Prerequisite: Successful completion of CP English 11

This course is intended for those students who will be attending a four year college. A continuation of C.P. English 11, the course stresses writing across the curriculum. Students will write history, science, and literary based researched papers; complete persuasive evaluative and informative essays; and write poetry, short stories, and reading reviews. Students will also read and write literary essays based on Hamlet and The Scarlet Letter. Students will conduct debates and present oral interpretation and mass media speeches. Students will also give formal presentations like ceremonial speeches.

CCP ENG 111 COMPOSITION I

Length: One Semester

Credit: 1 high school & 3 college

Prerequisite: Must be enrolled in CCP and be accepted to NSCC

Open to: 9th-12th graders

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 ENG 112 COMPOSITION II

Length: One Semester

Credit: 1 high school and 3 college

Prerequisite: Must be enrolled in CCP, accepted to NSCC, and earned a C or better in ENG 111.

Open to: 9th-12th graders

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

ACT PREP

Length: One Semester

Credit: .5

Prerequisite: Must be college-bound

Open to: 10th-12th graders

This course is available to students who are planning to attend a four year college/university. Preference will go to seniors during first semester and juniors during second semester. 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.

COMMUNICATIONS

Length: One Semester

Credit: .5

Open to all classes, this class will study various forms of communications including speech, mass media, and propaganda. Speeches will be researched, prepared, and presented.

CREATIVE WRITING

Length: One semester

Credit: .5

Creative Writing is a course that is designed to allow students to familiarize themselves with many different avenues for expression through writing. The focus is not on writing conventions, although they are important to the process. The goal for the class is for students to take chances with their writing and stretch out of their comfort zone. Although the class has a specific set of assignments, the work is largely independent. This allows for the student and teacher to work closely on the specific needs that each student has.

PODCASTING

Length: One semester

Credit: .5

In the first quarter of this course, 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. In the next quarter of this course, students will be focusing on designing their own podcasts. They will focus on planning, interviewing, story-telling, recording and editing, and possibly distributing.

SCREENWRITING

Length: One semester
Credit .5

In the first quarter of this course, students will observe different types of television and movie films using its screenplay. Students will analyze the writing and production of said films, which includes but is not limited to, the purpose of and the format of screenplays, as well as the elements of film and screenplays. In the next quarter of this course, students will write in the format of a screenplays using techniques such as dramatic strategies, archetypes, planning, pacing, and characterizing, which would have been taught in the first quarter of this course.

TOMORROW'S LEADERS

Length: One Semester
Credit: .5
Open to: 9th -12th grade

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: 10th- 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

MANDATORY COURSES

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.

ALGEBRA I A PART I & II

Length: One Year
Credit: 1.0

This course will consist of expressions, equations, inequalities, linear functions and systems of equations. Students will apply these concepts to real world applications by hand, and also with technology. Teacher recommendation is mandatory.

ALGEBRA I B PART I & II

Length: One Year
Credit: 1.0

This is a continuation of Algebra 1A. This course will review Algebra 1A and also cover new material that involves exponential functions, rational functions, and quadratics. Teacher recommendation is mandatory.

GEOMETRY

Length: One Year
Credit: 1.0
Prerequisite: Successful completion of Algebra I

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
Prerequisite: Successful completion of Algebra I and Geometry

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
Prerequisite: Successful completion of Algebra I, Algebra II and Geometry

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

Length: One Year
Credit: 1.0
Prerequisite: Successful completion of Pre-Calculus

This course 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.

SENIOR MATH

Length: One Year
Credit: 1.0

Senior math is a math course where we will explore the mathematics used in your daily life. Topics will include buying and financing a home or renting an apartment. Calculating income and doing taxes and working for an hourly wage or working on commission. Taking trips and recreational math like learning how to score bowling.

MUSIC ELECTIVES

BAND

Length: One year
Credit: 1.0

Prerequisite: Participation in grades 5-8

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.

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.

GENERAL CHOIR

Length: One year
Credit: 1.0

This class is available to all students who have a drive and passion for singing. You will learn the basics of sight-reading

music and be expected to bring a high level of dedication to this group. This year long course will teach you the basics of music notation, understanding music styles and genres, and include mandatory performances throughout the year.

JAZZ BAND

Length: One year

Credit: 1.0

Prerequisite: Must be in HS Band or have permission from the director.

Jazz band is for students looking to expand their playing technique and study a different type of music. Jazz band musicians will learn different jazz styles and complex rhythm patterns. Students will be expected to perform at many different performances both during and outside of the school day throughout the year.

LOCOMOTION

Length: One Year

Credit: 1

Prerequisite: This is by tryout only.

Locomotion is our auditioned mixed show choir requiring an advanced level of vocal proficiency, dance technique and a vibrant performance personality. Successful students will be proficient in music theory, sight reading, ear training, and vocal technique. Students should be willing to make the commitment necessary to attend all performances, concerts, camps and rehearsals.

THEATER EXPERIENCE

Length: One Semester

Credit: .5

Fee: \$10

The purpose of this course is to provide the complete experience in theatre, what it takes to develop a show from first thought to the final strike. Activities will be designed so students can learn how to research, act, design, direct, etc. They will learn to explore the purpose of the show and the idea that desires to be expressed. The ultimate goal is to provide students with the complete guided experience of a theater production from beginning to end. 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.

HEALTH & PHYSICAL EDUCATION

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

Open To: 9th graders

This required course is designed to provide students with opportunities to develop knowledge, skills and necessary attitudes for a lifetime of personal fitness and activity. This class is conceptually based and 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

Prerequisite: Completion of Lifelong Fitness

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.

ELECTIVE COURSE OPTIONS

FITNESS AND STRESS LESS

Length: One Semester

Credit: .5

This course will explore various forms of stress reduction through guiding students to identify stressors in their own lives and practical ways in which to reduce stress to their minds and bodies to increase productively in all areas of life. Pilates, yoga (non-spiritual), fitness programs, sports, and forms of rest will all be covered and practiced.

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 would 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.

WEIGHT LIFTING

Length: One Semester

Credit: .5

Prerequisite: C or better in PE I

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. PE credits must already be completed in order to take this class.

YOGA

Length: One Semester

Credit: .5

In this course you will learn and practice different yoga moves, breathing techniques, meditation and relaxation techniques. You will also learn about different types of yoga, its benefits, and its origins. Students are required to dress properly to participate.

SCIENCE

MANDATORY COURSES

SCIENCE 9

Length: One Year

Credit: 1.0

Open To: 9th graders

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 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.

EARTH SCIENCE

Length: One Year

Credit: 1.0

Open to: 11th graders that have passed Science 9 and Science 10

Earth Science is a science course 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

Prerequisite: Must pass Sci. 9 and Biology

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

Prerequisite: Must pass Sci. 9 and Biology

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

ENVIRONMENTAL SCIENCE

Length: One Semester

Credit: .5

Open to: 9th -12th graders

Environmental Science is an elective course that will focus on pollution, environmental impact (soil and water quality and wildlife), as well as alternative energy sources. The units will address these topics through discussion of current environmental issues in the community and world. This semester course will include hands on projects, lab investigations, presentations, and quizzes to assess student learning.

FORENSICS

Length: One Semester
Credit: .5
Open to: All Students
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.

HUMAN ANATOMY

Length: One Year
Credit: 1.0
Req.: Pass Biology and Chemistry
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
Fee: \$20.00
Open to: 9th graders and up
Prerequisite: MUST have teacher's signature

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 (Two Class Block)
Credit: 2.0
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 control 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.

ZOOLOGY

Length: Semester
Credit: 0.5
Open to: 9-12 Graders

This semester long course will focus on zoology (the study of animals) while touching on ecology (the study of interactions between organisms and their environment) and paleontology (the study of fossils and early life forms). These variations of biology will come together for a deeper understanding of the animal kingdom. In addition to studying the structure and physiology of animals in all the major animal phyla, this course will examine how life forms have changed through time and how organisms interact in various ecological systems. There will be lab exercises, hands-on activities, and projects to assess mastery.

SOCIAL STUDIES

MANDATORY COURSES

GLOBAL HISTORY

Length: One Year
Credit: 1.0
Open To: 9th graders

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
Open To: 10th graders

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: Global and Am. Hist.
Open to: 11th graders

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.

AP GOVERNMENT

Length: One Year
Credit: 1.0
Prerequisites: Global and Am. Hist.
Open To: 11th & 12th graders

This course is only offered if enough students sign up. This is a yearlong college level introductory course on United States Government and Politics designed for 11th grade students or 12th grade students interested in expanding their government knowledge. This course will focus on the Constitution, political beliefs and behaviors, political parties, interest groups, mass media, the Congress, the Presidency, bureaucracy, the federal judiciary, public policy, and civil rights and liberties. The course will be taught through the use of lecture and note taking, class discussion, intensive reading, group and individual projects, use of current events, political cartoons, and analyzing and interpreting data. Students will be encouraged to take the AP Exam which will be given later in the year.

FINANCIAL LITERACY

Length: One Semester
Credit: .5
Open to: AP Gov't 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.

ELECTIVE COURSE OPTIONS

DEBATE

Length: One Semester
Credit: .5
Open to: 9TH-12th graders

In this class we'll discuss the origins of debate in history including the origins of political debate in the United States. Students will learn the rules and processes of argumentative debate and of using counter arguments in that context. Students will culminate the class in planning and carrying out a series of small debates and one large final debate. NOTE *Students must be willing to speak in front of a small group/in a classroom setting as classroom participation will be a requirement

PSYCHOLOGY

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

Psychology is an elective for college prep seniors. The 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.

CONSUMER AND VOCATIONAL ELECTIVE COURSES

TRADE SKILLS I

Length: Semester (Two Class Block)
Credit: 1.0
Fee: \$20
Open To: All Students

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 (Two Class Block)
Credit: 2.0
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.