PROVIDING EXCEPTIONAL,

# Whitmore Lake Course Guide 

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## MIDDLE SCHOOL

## ENGLISH COURSES

In June 2010, the State Board of Education adopted the Common Core State Standards (CCSS) as the new standards for K-12 Mathematics and English Language Arts. These standards improved upon Michigan's current standards (the Grade Level Content Expectations and the High School Content Expectations) by establishing clear and consistent goals for learning, and allow Michigan to work collaboratively with other states to provide curricular support to schools and educators. For Questions and Answers visit -
http://www.michigan.gov/documents/mde/FAQ_4.10.13_418299_7.pdf

| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| APPLIED COMMUNICATION | Grades: 8 <br> Length: Semester | Students will learn to communicate effectively--orally, visually, and in writing--and will use this knowledge to create a variety of products/projects, including, but not limited to, emails, advertisements, campaign materials, photographs, speeches, blogs, social media posts, and newspaper articles. Students will also explore opportunities in the communications career path. |
| ENGLISH LANGUAGE ARTS 7 | Grade: 7 <br> Length: Year | Seventh-grade English builds a foundation in reading and writing narrative, informational, and argumentative texts. Through analysis and production of text, students grow as readers, thinkers, and writers and will understand the distinctions between narrative, informational, and argumentative texts. We study fiction and nonfiction in a variety of formats and develop an understanding of audience and purpose when both reading and writing. The use of a writer's notebook for each unit encourages students to be independent, engaged, and empowered learners who value close reading, idea generation, drafting, and revision. |
| ENGLISH LANGUAGE ARTS 8 | Grade: 8 <br> Length: Year | Eighth-grade English offers an in-depth study of various literary forms, as well as a challenging writing program that completes the middle school student's preparation for literary analysis and writing at the upper school level. The course is divided into several comprehensive units, each of which centers on a particular theme or genre. These thematic units also include a variety of short selections consisting of poems, essays, and articles. The goal is to provide a wealth of opportunity for students to grow as perceptive readers, critical thinkers, and competent writers. |

## MATHEMATICS COURSES

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| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| MATH 7 | Grade: 7 <br> Length: Year | Math 7 focuses on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two-and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples. |
| MATH 8 | Grade: 8 <br> Length: Year | Math 8 focuses on three main areas: (1) formulating and reasoning about expressions and equations, including modeling with solving linear equations, and solving systems of equations; (2) understanding functions and using functions to describe relationships; (3) analyzing two- and three-dimensional space and figures using distance, angles, similarity, congruence, and understanding and applying the Pythagorean Theorem. In addition, students will be engaging in the mathematical practices. |

## SCIENCE COURSES

| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| SCIENCE 7 | Grade: 7 <br> Length: Year | 7th Grade Science is a course designed to teach the basic concepts and theories of earth science including rocks and minerals, weathering, erosion, and glaciers, basic earth systems such as the hydrologic,atmospheric, geosphere,and biosphere, surface and ocean water, natural disasters, and plate tectonics. Earth Science also covers aspects of space science including the earth/moon system, the sun and planets, and the Milky Way Galaxy. |
| SCIENCE 8 | Grade: 8 <br> Length: Year | 8th Grade Science is a course designed to teach basic laboratory and measuring techniques. Students will explore traits for survival, and reproduction; the structure and functions of body systems and cells; genes and inheritance of traits, mutations, and engineering and genetics. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| HISTORY 8 | Grade: 8 <br> Length: Year | Eighth grade History is a course designed to teach our American history from the Revolutionary War through Reconstruction after the Civil War. Emphasis will be put on historical documents, such as treaties, the Declaration of Independence and the Constitution. Conflicts throughout history such as slavery, political parties, expansion, and government controlare discussed and related to student's lives. Other issues include the Civil War, Revolutionary War, and our governmental system. The course includes a focus on Native Americans, European influences on America, colonization, and independence, to the building of our nation. |
| ROAD TRIP USA | Grade Level: 7 <br> Length: Semester | In this course, students will take a "road trip" across the United States to learn more about our great nation. Exploration will include the national parks as well as the history, geography, economy, culture, and landmarks of the various regions. |
| TREK AROUND THE GLOBE | Grade: 8 <br> Length: Semester | In this course, students "trek around the globe" studying the world's geographic and human diversity. Students compare development, standards of living, systems of government, and economic factors across the globe. In addition, students gain a rich understanding of global cultures and the historical factors that have shaped the world around them as well as the current issues they face. |
| WORLD HISTORY 7 | Grade: 7 <br> Length: Year | In 7th Grade Social Studies students explore the experiences of people around the globe from the earliest civilizations to the 1500 s. Throughout the course students strengthen their literacy and critical thinking skillsas they examinearange of primary and secondary sources both independently and in collaborative groups. Students will build a foundational understanding of human society as they create presentations, models, and written expressions of their learning. |

\begin{tabular}{|c|c|c|}
\hline Course Name \& Pathway \& Grade Level, Length, Prerequisites \& Course Description \\
\hline CAREERS AND TECHNOLOGY \& \begin{tabular}{l}
Grade: 8 \\
Length: Semester
\end{tabular} \& This one semester course is a required eighth grade class that focuses on giving students the opportunity to explore different careers while expanding their skills and knowledge with technology and communication. Throughout the semester, students will work on several projects that explore careers that interest them and look into the education requirements of each career. Students will also have the opportunity to explore the Microsoft IT Academy and become Microsoft User Certified in Microsoft Office. Other objectives include communicating information accurately and effectively; creating oral, written, and technological productions; critically judging, interpreting, and synthesizing oral, written, and technological productions; exploring careers by continued exposure and understanding of pathways; understanding and assessing personality traits; and interacting with guest speakers as they share their experiences relating to communication, computers and careers. Course not offered every year. \\
\hline TECHNOLOGY 7

(teiter \& | Grade: 7 |
| :--- |
| Length: Semester | \& This course is designed to get 7th grade students ready for the connected 21st century world. We will examine and utilize a variety of web based applications to do things like: create presentations, communicate with each other, create videos, write blogs, annotate websites, organize ideas, program websites, etc. Students will also learn basic functions within the Microsoft Office Suite. During the semester, students will improve their typing skills and learn new ways to use technology in their lives, both at school, at home, and in future work places <br>

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## PHYSICAL EDUCATION \& HEALTH COURSES

| Course Name \& Pathway | Grade Level, Length, <br> Prerequisites | Course Description |
| :--- | :--- | :--- |
| PE 7/8 | Grade: 7-8 <br> Length: Semester <br> 成 | P.E. $7 / 8$ is a general physical education course with a broad span of activities <br> and sports that may include a swim unit. It will give students a diversified taste of <br> physical education to find enjoyment in physicalactivity and promote lifelong sport <br> and fitness, including both team and individual sports. Sport rules, skills, teamwork <br> and strategy will be taught throughout the course. This course willalso haveafocus <br> on physical finess, daily exercise and social interaction. The course grade will be <br> based on daily participation and effort, physical fitness testing, specific sport skills <br> tests and written tests. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| ART 7 | Grade: 7 <br> Length: Semester | Students will learn the elements and principles of design and apply them in creating original artwork. Students will learn to apply media and techniques with skill and confidence so that their intentions will be carried out in their artwork. This class will include both two-dimensional and three-dimensional projects in various media such as ceramics, painting, drawing, and sculpture. Students will learn about different art careers, art forms, and numerous ways that art can be created. Additionally, students will learn how to think critically, plan for projects, and participate in art critiques to grow individually and to help others grow artistically. |
| ART 8 | Grade: 8 <br> Length: Semester | Students will learn the elements and principles of design in more depth and apply them in creating original artwork. Students will learn to apply more advanced media and techniques with skill and confidence so that their intentions will be carried out in their artwork. This class will include both two-dimensional and three-dimensional projects in various media such as ceramics, painting, drawing, and sculpture. Students will learn about different art careers, art forms, and numerous ways that art can be created. Additionally, students will learn how to think critically, plan for projects, and participate in art critiques to grow individually and to help others grow artistically |
| BAND | Grade: 7-8 <br> Length: Semester | $7-8$ grade Band is an instrumental ensemble course where students meet five times per week in a full ensemble setting. This course utilizesall of the instruments found in Band 6 (55102) while giving the opportunity to add instruments such as the piccolo. 7-8 grade Band is intended to further develop students' knowledge of music notation, theory, and history and their relationship with disciplines outside thearts, while developing technique in relationship to their instrument. This course also begins this development for students new to the music program. In additional to the solo, small ensemble and large ensemble performing opportunities, this course also gives an opportunity to participate in a marching band setting. Members of the 7-8 grade Band cover band literature that includes, but is not limited to, concert, marching, orchestral, and modern styles through concerts held at the school as well as through participating in festival events such as the Michigan School Band and Orchestra Association's Band and Orchestra Festival and Solo \& Ensemble. |
| CHOIR | Grade: 7-8 <br> Length: Year | 7-8 grade choir isa vocal ensemble course where students meet five times per week in a full ensemble setting. This course provides both young men and women the opportunity to sing a variety of choral literature in a variety of language settingsand is designed to develop vocal techniques. As a developing choral class, the course covers unison and two part singing while developing students' knowledge of music notation, theory, and history and their relationship with disciplines outside thearts. Members of the 7-8 grade choir cover a variety of ensemble literature styles, while giving the opportunity to develop solo singing and sight-reading abilities. In this course the students are also provided the opportunity to attend festivals such as the Michigan School Vocal Music Association's Choral Festival and Solo \& Ensemble. |
| THEATER ARTS | Grade: 7-8 <br> Length: Semester | Theater Arts will focus on a variety of plays and musicals as well as the design and practical application of technical theater. Students will study every aspect of theater, including acting, set design and construction, lighting design and construction, sound design and construction, costume design and construction, and marketing techniques. The course will culminate in a performance event and will prepare students for performing arts productions. |

## HIGH SCHOOL

## ENGLISH COURSES

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| :---: | :---: | :---: |
| AP LANGUAGE AND COMPOSITION | Grade: 10-11 Length: Year | Graduation Requirement. The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytical and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize,and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. |
| AP LITERATURE AND COMPOSITION | Grade: 12 <br> Length: Year | This class is designed to prepare students for college-level work, and therefore, will be taught as a college-level course. The emphasis will be on analytical and evaluative skills. Assignments will evolve from various novels, short stories, plays, poems, and essays, and will assess both interpretive reading and writing skills. In addition, students will be expected to complete various supplementary projects. The students may choose to take the Advanced Placement test at the end of the course in order to obtain possible college credit. |
| $\text { ENGLISH } 9$ | Grade: 9 <br> Length: Year | Graduation Requirement. English 9, required of all ninth (9th) graders, will develop the basic skills of English. The class will emphasize basic grammar, spelling, vocabulary, writing, and library/technology skills. Work in literature will include an introduction to short stories, poetry, drama, memoirs, novels, and mythology. The class will familiarize students with the main areas of English study, giving them a basis upon which to choose future English electives. |
| ENGLISH 10 | Grade: 10 <br> Length: Year | Graduation Requirement. English 10 is a required course. Becoming well-versed in the English language arts requires students to develop the skills to become thoughtful readers, writers, listeners, speakers, and viewers both inside and outside of the classroom. To meet this goal, English 10 students read and closely interact with a variety of narrative and informational texts, written mainly by American authors, to meet national reading standards. Students will develop their writing skills too - specifically through persuasive, narrative, explanatory and research writing. |
| ENGLISH 11 | Grade: 11 <br> Length: Year | Graduation Requirement. This course will allow students the opportunity to read, write, speak, listen, and think. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they develop an understanding of both fiction and non-fiction texts. The course will stress the improvement of analysis skills, writing skills, vocabulary, and grammar. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| ENGLISH 12 | Grade: 12 <br> Length: Year | Graduation Requirement. English 12 is designed to comply with the curricular requirements of the Common Core Standards of Michigan and aligned with the SAT requirementsfor Grade 12. The goal for this course is to refine, apply, and extend the solid foundation of knowledge, skills, and strategies developed in English 9 through 11. Twelfth graders will identify and apply their own leadership skills and prepare for responsible action as American citizens in the context of a global world. Throughout English 12, students will develop their knowledge of textual elements and structures, enabling them to engage in classroom reading of increasingly complex texts. Students will develop analytical skills and strategies that will give them the ability to access, navigate, and evaluate literature. The analysis of texts will focus on bias and point of view in writers and readers. Students will explore the influence of great writers of cultural situations. In addition, students will self-monitor the skills, habits, strategies, and processes they use to set goals and reflect on their growth. |
| FILM AS LITERATURE | Grades: 10-12 <br> Length: Semester or <br> Year | This course emphasizes film as literature with a focus on film history, techniques, and genres. Using film as text, students will learn to "read" movies for elements such as theme, characterization, plot, symbolism, and conflict. Students can expect required readings, writing, discussions, and projects. Because different films will be taught each semester, students can enroll in this course all year. Course not offered every year. |
| HONORS 10 ENGLISH | Grade: 10 <br> Length: Year | Honors English 10 is a course intended to enhance students' overall language skills as well as prepare them for the expectations and rigor of AP English courses. Throughout the course, students will thoroughly read, analyze, and interpret literature as well as nonfiction works of historical and cultural significance.They will also practice narrative, informative, argumentative, and research writing with an emphasis on grammar and vocabulary instruction. Using language as a tool, the course will focus on the deeper elements of literature through regular class discussions, projects, and presentations. |
| HONORS 11 ENGLISH | Grade: 11 <br> Length: Year | This course will provide a survey of British and American Literature. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time as well as how it is relevant now. Oral discussion is an integral part of literature courses, and written compositions are often required. The main literary emphasis will be on the critical analysis of English and American literature, although classic Greek literature will also be explored. In addition to reading literature, students will be given varied writing assignments. The course will stress improvement of analysis skills, writing skills, vocabulary,and grammar. |
| WRITING FOR PUBLICATIONS | Grade: 9-12 <br> Length: Year | Writing for Publications is a yearlong course for students in grades 9-12. This course is designed to provide students with the opportunity to produce the Whitmore Lake High School lliad yearbook and Trojournal newspaper. Students will develop skills in journalism, page design, advanced publishing techniques, copywriting, editing, and photography while producing a creative, innovative high school newspaper and yearbook that records school memories and events. Students will gain useful, real-world skills in time management, marketing, teamwork, and design principles. The curriculum for Writing for Publications is aligned to Walsworth Yearbooks and MIPA (Michigan Interscholastic Publications Press Association) to the state's Visual Performing and Applied Arts standards. |

## MATHEMATICS COURSES

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| :---: | :---: | :---: |
| ALGEBRA I | Grade: 9 <br> Length: Year <br> Prerequisites: MATH 7 | Graduation Requirement. Topics for Algebra I include the following: sets of numbers and their operations, solution sets of linear equations/inequalities, systems of equations, quadratic equations, polynomials, factoring, graphing in the coordinate plane, irrational and imaginary numbers, fractional equations, and various types of verbal problems. |
| ALGEBRA II | Grade: 10-12 Length: Year Prerequisites: ALGEBRA I | Graduation Requirement. This course will contain areview ofall topics covered in Algebra I plus the introduction of the following topics: inverse relations and functions, rational exponents, radical functions, exponential and logarithmic functions, matrices and determinants, sequences and series, binomial expansions, and trigonometric functions. |
| ALGEBRA II ESSENTIALS | Grade: 11-12 <br> Length: Year <br> Prerequisite: <br> ALGEBRA I | Essentials of Algebra 2 includes topics arranged around family of functions, including polynomial, radical, exponential, logarithmic, and rational. Other topics include systems of equations, an introduction to trigonometry, and statistics. The course will also include instruction and practice on standardized test questions in a variety of formats including multiple choice, short response, and extended response. Course not offered every year. |
| AP CALCULUS AB | Grade: 11-12 <br> Length: Year <br> Prerequisite: PRE-CALCULUS | The course is aligned to the Advanced Placement curriculum for Calculus AB and covers calculus principles such as derivatives, integrals, limits, approximation, and applications and modeling. Students will gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications. Course not offered every year. |
| AP STATISTICS | Grade: 11-12 Length: Year Prerequisites: ALGEBRA II | The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1. Exploring Data: Describing patterns and departures from patterns 2. Sampling and Experimentation: Planning and conducting a study 3. Anticipating Patterns: Exploring random phenomena using probability and simulation 4. Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and exam may receive credit, advanced placement or both for a onesemester introductory college statistics course. Course not offered every year. |
| FINANCIAL MANAGEMENT | Grade: 12 <br> Length: Year | Financial Management is designed to inform students how individual choices directly influence goals and future earnings potential. Real world topics covered include: taxes, insurance, savings and investments, banking, credit management, budgeting, financial needs and goals, income and overall career planning. On the business end, students will analyze cost/profit relationships to making business decisions, learn basic accounting procedures, and study fundamental economic concepts and systems. |
| FUNCTIONS, STATISTICS, AND TRIGONOMETRY (FST) | Grade: 11-12 Length: Year Prerequisites: ALGEBRA II | This is an advanced class for those who are going on to college. We will cover the following topics: statements in sets, properties of fields, sequences and series, functions, complex numbers, graphing polynomial functions using derivatives, using logarithmic functions, circular functionsand trigonometric identities, second degree loci and probability. Course not offered every year. |

## MATHEMATICS COURSES

| Course Name \& Pathway | Grade Level, Length, <br> Prerequisites | Course Description |
| :--- | :--- | :--- |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| ANATOMYI PHYSIOLOGY | Grade: 11-12 <br> Length: Year | The student should possess above-average reading and spelling skills to take this course. Advanced skills in dissection will beapplied as larger, moreadvanced animals are studied. Optional specimens may include sharks, fetal pigs, cats, rabbits, and rats. Participation in discussions, special oraland written reports,and dissectionsare required. Laboratory investigation activities will average one every other week. General topic areas will include human body systems, recent efforts of biotechnology involving world problems, man's influence on the natural environment, and current, controversial biological issues and activities of man. The biology of the human body is the major focus of study. |
| BIOLOGY | Grade: 9 <br> Length: Year | Graduation Requirement. This course will deal with the overall study of animals. Lab work will average one (1) day per week as students do various investigations and experiments. Dissection will include examples of different animal groups. Outdoor work will emphasize ecological relationships between plants and animals. General topics will include the structure and formation of cells, how animals obtain and use food, animal methods of reproduction, animal growth and behavior, environment, diseases in animals, including man, and conservation of natural resources. The topics of genetics, evolution and classification of plants and animals are also covered. We will try to utilize Whitmore Lake in some of our study. |
| CHEMISTRY | Grade: 11-12 <br> Length: Year <br> Prerequisites: <br> ALGEBRA | Chemistry is a science class that studies the structureand composition of substances and the mechanisms of changes in these substances. The course consists ofalecture and laboratory experience. A strong math background is necessary. Laboratory experiences average one per week. |
| CSI: FORENSIC SCIENCE | Grades: 9-12 <br> Length: Semester or Year | This course introduces students to forensic science and the law. Through the lens of crime scene investigation, students will study forensic investigative techniques and types of evidence at a crime scene. Analysis may include fingerprints, hairs, fibers, drugs, toxicology, trace evidence, blood and blood spatter analysis, entomology, documents and handwriting. Students will also study crime scene reconstruction and criminal profiling. |
| GEOCHEMISTRY | Grade: 11-12 Length: Year | This course is a yearlong class designed to fulfill the MME's 3rd year science requirement. This course engages students in inquiry, real-world application, and labs through the lens of both Earth Science and Chemistry. In the first semester, units of study include: Introduction to Science; Matter; Atoms and Periodic Table; The Structure of Matter; Chemical Reactions; Solutions, Acids, and Bases; Nuclear Changes. In the second semester, units of study include: The Universe; Planet Earth; The Atmosphere; Using Natural Resources; Sound and Light; Electricity; Magnetism. Course not offered every year. |
| PHYSICS | Grade: 10 <br> Length: Year | Graduation Requirement. . Physics is the study of matter and energy and how they interact. Much use of mathematics is used in understanding the relationships between motion, force, heat, electricity, magnetism, sound, light and waves. Laboratory and other hands-on experiences will be used to clarify concepts. |
| SCIENCE IN THE NEWS | Grade:11-12 <br> Length: Semester | This class will use today's news to make science more relevant to students. The course will incorporate topics of health, nutrition, technology, life science, forensic science, and environmental science. Additionally, this course will enhance a student's ability to read for understanding and knowledge. This course is repeatable for credit. Course not offered every year. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| ABNORMAL PSYCHOLOGY | Grade: 10-12 <br> Length: Semester | In this class, students will explore the causes, symptoms, and treatments of major psychological disorders, including anxiety, dissociative, mood, somatoform, eating, schizophrenia, and substance-related disorders. Course not offered every year. |
| AMERICAN CULTURE | Grade: 10-12 <br> Length: Semester | From Barbie to the Internet, the Simpsons to the malls, pop culture permeates society. This course introduces students to the major topics in pop culture - asking students to analyze and evaluate the role popular culture plays in American life today. Units of study will include an introduction to American Popular Culture, Advertising, Television, Popular Music, Cyberculture, Sports, and Movies Course not offered every year. |
| AP PSYCHOLOGY | Grade: 10-12 Length: Semester | Course content will focus on the scientific study of behaviorsand experiences. This course will include how human beings and animals sense, think, learn, and know. Psychological theories will be studied in order to help students to understand, explain, and, to an extent, predict behavior. Course not offered every year. |
| AP U.S. GOVERNMENT AND POLITICS | Grade: 11 <br> Length: Year | This year-long course is designed to provide an introduction into the operation of the American government and political system. The major topics to be covered in class are the content areas assessed on the AP U.S. Government \& Politics exam;all students in the course are encouraged to take this exam in the spring. Besides being prepared for this exam, at the conclusion of the course students will have a more sophisticated understanding of American democracy, constitutionalism, and civil liberties. Students will ultimately be able to apply these insights about the U.S. political system to contemporary events. |
| CRIMINOLOGY | Grade: 10-12 <br> Length: Semester | This criminology course introduces students to the science of criminology, including theories regarding causation (social and cultural), data collection methods and measurement, types of crime, consequences, prevention, control and treatment. Multidisciplinary resources will be utilized.Course not offered every year. |
| ECONOMICS | Grade: 11 <br> Length: Semester | Graduation Requirement. The purpose of this course is to help students use knowledge of the production, distribution, and consumption of goods and services to make personaland societal decisionsabout the use of scarce resources. Major units of study will include: Individual, Household, \& Business Choices, Economic Systems \& the Role of Government, and The International Economy. |
| GENDER STUDIES | Grade: 10-12 <br> Length: Semester | This course is an introduction to basic concepts of the study of gender in America. We will examine psychological research and theory related to gender, with a particular focus on the ways in which gender impacts people's day-to-day lives. Units of study will include: The Biology of Gender, Gender Roles in History and Contemporary Society. Gender Socialization, Gender Communication, the Representation of Men and Women in Popular Culture, and Gender in Education. The course is primarily discussion-based and will include media analysis as well as internet research projects. Course not offered every year. |
| GOVERNMENT | Grade: 11 <br> Length: Semester | Graduation Requirement. This course will begin with a review of the originsand foundations of American Government. Other course content includes responsibilities of citizens in a representative democracy, values and principles of American democracy, roles and functions of the three branches of government,and the relationship of the United States to other nations and world affairs. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| HISTORY OF US LAW | Grade: 9-12 <br> Length: Semester | This course examines the history of the U.S. legal system from the framing of the U.S. Constitution to the present. Areas of law studied include the history of Constitutional law (including Supreme Court cases and historical precedents), commercial law, criminal law, family law, and property law. Students will also examine the ways in which the U.S. law changes in response to major historical events and movements in the United States, including the Civil War, Reconstruction, Progressivism, the Great Depression, 20th Century American Wars, the Civil Rights movement, and $9 / 11$. Course not offered every year. |
|  | Grade: 10-12 <br> Length: Year | Regardless of your plans after high school, the hacks you acquire in this class will help make "adulting" easier and will help you be a more successful grown-up! Students use hands-on and practical projects to learn valuable financial, time management, conflict resolution, and communication skills, as well as valuable strategies for stress relief and mental wellness. Course not offered every year. |
| MODERN WAR | Grade: 10-12 <br> Length: Semester | This course provides students with an overview of American military history relative to the causes, nature, outcomes, and significance of major wars and related issues; essentially, is a study of the concepts, events, leaders, and outcomes of American military history from the American Revolution to recent times. Course not offered every year. |
| PRACTICAL LAW | Grade: 10-12 <br> Length: Semester | This course provides practical information and problem-solving opportunities to develop students' knowledge and skills relative to the law. The curriculum includes case studies, mock trials, small-group activities, and visual analysis activities. Guest speakers will be provided through partnerships with local law enforcement and social agencies. Topics covered include the legal system, criminal law, juvenile justice, consumer law, family law, housing law, and individual rights and liberties. Grades will be based on written homework, participation in activities and discussions, and exams. Course not offered every year. |
| SOCIOLOGY | Grade: 10-12 <br> Length: Semester | The focus of the course will be on examining the ways in which social structuresand institutions, as well as social problems, influence society. Topics such as cultural diversity, social change and control, social structure, personality development and gender socialization will be studied. Course not offered every year. |
| SPORTS HISTORY | Grade: 9-12 <br> Length: Semester | Students will explore how unorganized athletic activities were transformed into spectator sports at the collegiate and professional levels. Students will study important and controversial events in sports history, the most talented and influential athletes, and the most memorable victories and defeats. Students will also understand the ways in which sports reflected and informed American culture throughout history. Course not offered every year. |
| U.S. HISTORY | Grade: 9 <br> Length: Year | Graduation Requirement. This course is a continuation on American History from 8th grade. Students will deal with the history of our country from 1865 to present. There will also be some review of earlier history. Critical thinking will be emphasized. Sample topics to be presented include: World Wars I \& II, the Great Depression, the Vietnam War and the Civil Rights Movement. |
|  | Grade: 10 <br> Length: Year | Graduation Requirement. Living in a global society today requiresa knowledge of humanity's recent past. In this course students will analyze the major eras of history from 1500 CE to present day. Throughout the course students will seek answers to compelling inquiry questions by analyzing primary and secondary sources both independently and in groups. Students will create presentations, models, and written expressions of their learning. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| AP COMPUTER SCIENCE A | Grade: 10-12 Length: Semester | AP Computer Science A introduces students to computer science through programming. Fundamental topics include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. To enroll, students should have successfully completed AP Computer Science Principles or received permission from the instructor. This course can be used to fulfill the 4th-year math requirement or 2ndyear world language requirement. Course not offered every year. |
| AP COMPUTER SCIENCE PRINCIPLES | Grade: 10-12 Length: Year | This course is meant to be a first time introduction to computer science, and does not require students to come in with any computer programming experience. AP Computer Science introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. With a unique focus on creative problem solving and real-world applications, the course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field. ** This course can be used as a 4th year math course as well as a world language credit. |
| BUSINESS OPERATIONS: SCHOOL STORE | Grade: 10-12 <br> Length: Semester | Students will learn what it takes to effectively start and run a business by managing the Whitmore Lake School Store - the Trojan Den. Through a variety of hands-on activities, students will get an in-depth look at business and how they get started. Students will evaluate a new business venture's potential for success, determine the resources needed, and develop a business plan for this venture. After establishing a venture concept, students will establish operations planning and control, develop procedures and policies for their venture, and utilize project management skills in management of the many facets of a store. During the semester, students will work closely with WL athletic groups and students in product development and design, retail sales to these groups, and the management of business projects. This course is articulated with Washtenaw Community College and Baker College; see a CTE instructor for more information. Course not offered every year. |
| CTE: MULTI-MEDIA COMMUNICATIONS A | Grade: 9-12 <br> Length: Semester | This class is $90 \%$ group work. In this course, students will explore emerging digital technologies with a focus on project management (how to make sure a project is completed on time and reach all of the goals that were set out for it). Attention will be paid to how social media and digital media is changing the way customers, consumers and business interact and create an online brand. Web 2.0 tools are the optimal digital media for businesses; therefore, students will have the chance to research and explore some of the latest trends in Web 2.0 Collaboration tools, including blogs, podcasting, video creation tools, web-siteauthoring sites, and more. Students will also be responsible for the student run news program, Trojan Talk. Course not offered every year. |
| CTE: MULTI-MEDIA COMMUNICATIONS B | Grade: 9-12 <br> Length: Semester | This class is $95 \%$ group work. Multimedia B is an advanced Multimedia A class where students will focus on multimedia production. Several of the topics in Multimedia A will be brought up and expanded upon in Multimedia B. Students will be creating digital videos for various school and community organizations and businesses that fit the description and needs of the customer. Students will also continue to create the student run news program, Trojan Talk. Course not offered every year. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
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| DIGITAL AND GRAPHIC DESIGN | Grade: 9-12 <br> Length: Semester | This course addresses the importance that is placed on visual communication within our society. In today's culture, everything, including newspapers, magazines, television, junk mail, and even social media seem to be driven by visual design elements. Students will apply knowledge of the elements and principles in design to improve their understanding and evaluation of existing examples of graphics and design. Project-based activities reinforce student learning with programs like Photoshop and InDesign, while the use of digital photography is also included in classroom content and activities. In addition to learning about elements in design, students are also expected to strengthen their verbal, written, and visual communication skills. Students are expected to maintain a copy of their work completed in class for inclusion in a digital portfolio. This course is articulated with Washtenaw Community College and Baker College; see a CTE instructor for more information. Course not offered every year. |
| INTRO TO BUSINESS PRINCIPLES AND TECHNOLOGY | Grade: 9-12 <br> Length: Semester | Introduction to Business Principles is a semester course that introduces students to the world of business and explains its major activities and role in the American economy. Students will learn about the dominant role that business activity plays in our economy and the kinds of preparation needed to participate in one or more business activities. Planned areas of discussion include, but are not limited to general business, economics, entrepreneurship, business communications, technology, management, marketing, and business ethics, and consumer rights and responsibilities. Instructional methods may include computer and technology applications, student projects, simulations, class discussions, instructor demonstrations, and guest speakers. This course also provides students with the higher-level technical skills required of today's workers. The features of word processing, spreadsheet creation and manipulation, and data management are the main tools students will study. This course is articulated with Washtenaw Community College and Baker College; see a CTE instructor for more information. Course not offered every year. |
| NEXT GEN TECH | Grade: 9-12 <br> Length: Semester | This course will introduce students to new technologies that are shaping the world. Now, more than ever, we are living in an automated world. More and more jobs are being replaced by artificial intelligence; cars are becoming autonomous; we use tools like Siri and Alexa on a daily basis, and digital currency is the new norm. Students will explore the basic concepts of these technologies that include units of Intro to Python, artificial intelligence, machine learning, and microcontrollers/ sensors. The course is built on the five "Big Ideas" of teaching artificial intelligence to high school students that were established by the Association for the Advancement of Artificial Intelligence (AAAI) and the Computer Science Teachers Association (CSTA).Course not offered every year. |


| Course Name \& Pathway | Grade Level, Length, <br> Prerequisites | Course Description |
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| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
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| AQUATICS | Grade: 9-12 <br> Length: Semester | Learn to swim, learn to swim better, and participate in stroke clinics. This course will cover, front crawl, backstroke, breaststroke, butterfly, elementary backstroke, sidestroke, diving, flip turns, touch turns, treading water and water safety. All levels welcome and encouraged. Course not offered every year. |
| HEALTH | Grade: 9-12 <br> Length: Semester | Graduation Requirement. This course investigates how to improve physical, mental, emotional, and social wellness through making decisionsassociated with the maintenance of sound and practical health habits. Emphasis is on wellness as a lifestyle, substance abuse prevention, and general health concerns. Effective communication skills and etiquette and manners are included in the social wellness section. Human sexuality/reproductive health will explore the complex dimensions of adolescent sexual development to help adolescents understand and accept their evolving sexuality and to help them make responsible sexual choices, now and in their future adult roles. Parental notification is given prior to the human sexuality unit. |
| LIFELONG FITNESS AND SPORTS | Grade: 9-12 <br> Length: Semester | This elective physical education course will focus on exercise that promotesa healthy lifestyle and social interaction with sports and activities that can be played beyond high school and well into the later years of life. Activities may include but is not limited to Disc Golf, Volleyball, Aerobics and Yoga, etc, Badminton, Circuit Training, Swimming, Pickleball, Table Tennis and Yard Games. Sport rules, skills, teamwork and strategy with an emphasis on sportsmanship will be taught throughout the course, while promoting lifelong fitness and enjoyment in sport. The course grade will be based on daily participation, sportsmanship and effort, physical fitness testing, specific sport skills tests and written tests. Course not offered every year. |
| OLYMPIC SPORTS | Grade: 9-12 <br> Length: Semester | This elective physical education course will focus on games and sports that are contested in the Olympics Games, such as Basketball, Volleyball, Badminton, Table Tennis, Water Polo, Team Handball, Soccer, Rugby and Floor Hockey. Sport rules, skills, teamwork and strategy will be taught throughout the course, while promoting lifelong fitnessand enjoyment in sport. This course willalso haveafocus on physical fitness, daily exercise and social interaction. The course grade will be based on daily participation and effort, physical fitness testing, specific sport skills testsand written tests. Course not offered every year. |
| RECREATIONAL SPORTS I | Grade: 9-12 <br> Length: Semester | This basic physical education class will introduce students to a wide multitude of activities and sports that may include but is not limited to Ultimate Frisbee, Flag Football, Soccer, Badminton, Tchoukball and Volleyball. Sport rules, skills, teamwork and strategy will be taught throughout the course, while promoting lifelong fitnessand enjoyment in sport. This course willalso haveafocus on physical fitness, daily exercise and social interaction. The course grade will be based on daily participation and effort, physical fitness testing, specific sport skills testsand written tests. Course not offered every year. |
| RECREATIONAL SPORTS II | Grade: 9-12 <br> Length: Semester | This is a continuation of Rec. Sports I, but may be taken as a standalone class too. Activities and sports in Rec. Sports II may include but is not limited to Basketball, Sabakiball, Pickleball, Swimming, Speedball, Wiffleball and Field Hockey. Sport rules, skills, teamwork and strategy will be taught throughout the course, while promoting lifelong fitness and enjoyment in sport. This course willalso haveafocus on physical fitness, daily exercise and social interaction. The course grade will be based on daily participation and effort, physical fitness testing, specific sport skills tests and written tests. Course not offered every year. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
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| STRENGTH TRAINING AND CONDITIONING | Grade: 9-12 <br> Length: Semester | This elective physical education course will focus on the many facets of training the human body for physical fitness and athletics. Training may include but is not limited to Weight Training, Speed Training, Flexibility, Endurance Training and Plyometrics. The course grade will be based on daily participation and effort, proper mechanics, physical fitness growth and written tests. Course not offered every year. |

## VISUAL, APPLIED, AND PERFORMING ARTS

| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| ART EXPLORATIONS | Grade: 9-12 <br> Length: Semester | Students will explore a variety of art materials in both two dimensional and three dimensional artwork. The course is designed to introduce and improve students art skills in making different kinds of two dimensional and three dimensional art. The course will provide students the opportunity to experience making sculpture, painting, drawing, and ceramics. Students will learn about different art careers, art forms, and numerous ways that art can be created. Additionally, students will learn how to think critically, plan for projects, and participate in art critiques to grow individually and to help others grow artistically. Course not offered every year. |
| ART GALLERY | Grade: 9-12 <br> Length: Semester | This course is for those interested in art but not committed to one concentration. Media to be explored may include printmaking, sculpture, drawing and painting, collage, and two- or three-dimensional design. The elements and principles of design will be applied and emphasized in the work. Course not offered every year. |
| ARTISTS \& TECHNIQUES | Grade: 9-12 <br> Length: Semester | Students will study artists and their unique styles. They will analyze and interpret these styles to gain ideas for their own creative works. This class will include both two-dimensional and three-dimensional projects in various media. Course not offered every year. |
| BAND | Grade: 9-12 <br> Length: Semester | This is a performing ensemble. In addition to learning the literature for Wind Band, class time is used for performance preparation. Required performances include half-time show, parades, Christmas and spring concerts, band festival, commencement exercises, and some basketball games. Other performing opportunities arise from year to year. Contact the Director for a complete performance schedule for the year. |
| CERAMICS | Grade: 9-12 <br> Length: Semester | This course introduces students to basic hand-building and wheel-throwing techniques through a variety of concepts and experiences. Students will be expected to apply design elements and principles as they create functional and sculptural forms in clay. Course not offered every year. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
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| CERAMICS STUDIO | Grade: 9-12 <br> Length: Semester <br> Prerequisites: <br> Ceramics with C - or better | This course continues to build on the techniques and skills learned in Ceramics. Combining the techniques, incorporating personal expression, and relating the work to art history are all important components. When possible, students will work more often on the ceramics wheel to develop that skill. Success will reflect good use of the elements and principles of design and good craftsmanship. This course may be repeated to continue exploring the medium at a more advanced level. *A lab fee of approximately $\$ 35.00$ may be incurred for consumable materials. Fee exemptions may be made on an "as needed" basis. Course not offered every year. |
| CHOIR | Grade: 9-12 Length: Year | Choir is a basic vocal music course open to singers that builds upon the skills learned in middle school choir or its equivalent. Students prepare, study, and perform level-appropriate music for the full ensemble, chamber ensembles, and solos. In addition to regular class time, students are expected to participate in rehearsals and performance that take place outside the normal school day. Course not offered every year. |
| CONTEMPORARY ART | Grade: 9-12 <br> Length: Semester | By studying the artwork and techniques of contemporary artists, such as Kehinde Wiley and Amy Sherald, students will learn to use art as a form of communication. Student will learn to read artwork and will create original works of art that communicate with the viewer and are visually interesting. Students will use a variety of materials to create both two- and three-dimensional projects. Course not offered every year. |
| ILLUSTRATION AND DESIGN | Grade: 9-12 <br> Length: Semester | This course introduces the fundamental theories and methodologies of visual communication used in creative fields, including graphic design, advertising, illustration, gaming, and set design. Assignments develop problem-solving and visual storytelling skills with an emphasis on context, concept, audience, and process. Course not offered every year. |
| INTRODUCTION TO DRAWING | Grade: 9-12 <br> Length: Semester | This class is intended to build confidence and skill at drawing. There will be a focus on transitioning from the left hemisphere of the brain (language) to the right hemisphere (visual) in order to build students' perceptual skills. While their drawing abilities will develop, students' personal styles will stay intact. This class will use dry mediums like pencil, soft pastel, and charcoal. Course not offered every year. |
| JAZZ BAND | Grade: 9-12 <br> Length: Semester | Jazz Band is a performance-based class that will include playing music from a number of genres, including jazz, swing, blues, ballads, and pop. Emphasis will be given to acquiring improvisational skills. Vocal students must see the instructor before registering for the class. Requirements include practice, concert performances, and other venues as they arise, including but not limited to Jazz Festival and community events. Course not offered every year. |
| MIXED MEDIA | Grade: 9-12 <br> Length: Semester | Students will learn how to use art materials together in untraditional ways. The course is designed for students to experience and explore a wide variety of art media and techniques in two dimensional artwork. Students will examine media used to create art and will look at various ways that it can be used. Students will use materials such as collage, painting, drawing, printmaking, etc. Students will learn a variety of techniques and skills using different art materials together. Additionally, students will learn how to think critically, plan for projects, and participate in art critiques to grow individually and to help others grow artistically. Course not offered every year. |


| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
| :---: | :---: | :---: |
| MUSIC THEORY \& COMPOSITION | Grade: 9-12 <br> Length: Semester | This course includes the study and analysis of basic elements of music-melody, harmony, and rhythm. There is extensive work in scales, intervals, chords and harmonic progressions. Ear training, sight-singing, and fundamental keyboard harmony are emphasized as part of the course work as well as arranging and composition techniques. Techniques learned through this course will culminate in a performance of an original work. Course not offered every year. |
| PAINTING | Grade: 9-12 <br> Length: Semester | This structured course will introduce students to the skills required in painting, including composition and design principles, perspective, symmetry, proportion, and a variety of grayscale painting techniques. As time permits, color will be explored. Art history applicable to the material will also be a component. Course not offered every year. |
| PAINTING STUDIO | Grade: 9-12 <br> Length: Semester | This course is a continuation of Painting with continued emphasis on art history, composition, and design principles. This course may be repeated to continue exploring the medium at a more advanced level. *A lab fee of approximately $\$ 35.00$ may be incurred for consumable materials. Fee exemptions may be made on an "as needed" basis. Course not offered every year. |
| POP CULTURE \& ART | Grade: 9-12 <br> Length: Semester | This course explores basic principles and elements of art by looking for inspiration from American popular culture, including movies, television, music, video games, sports, news, politics, fashion, advertising, current events, and technology. Projects may include memes, movie posters, selfies, album art, and logos. Course not offered every year. |
| PRINTMAKING | Grade: 9-12 <br> Length: Semester | Printmaking is an artistic process that involves transferring images from one surface to another, most often paper or fabric. Traditional printmaking techniques include woodcut, etching, engraving, and lithography, while modern artists have expanded available techniques. Students will learn about the different printmaking techniques while exploring printmaking artistry. At the end of the semester, students will take part in a print exchange. Course not offered every year. |
| THEATER ARTS | Grade: 9-12 <br> Length: Semester | Theater Arts will focus on a variety of plays and musicals as well as the design and practical application of technical theater. Students will study every aspect of theater, including acting, set design and construction, lighting design and construction, sound design and construction, costume design and construction, and marketing techniques. The course will culminate in a performance event and will prepare students for performing arts productions. Course not offered every year. |


| Course Name \& Pathway | Grade Level, Length, <br> Prerequisites | Course Description |
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| Course Name \& Pathway | Grade Level, Length, Prerequisites | Course Description |
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| LEADERSHIP SEMINAR | Grade: 11-12 <br> Length: Semester | Leadership Seminar is designed for students interested in learning the basic concepts of leadership and developing his/her own leadership skills. The emphasis of this course will be on developing knowledge of self and others, defining leadership, developing leadership skills and practices, and service learning. Specifically, the student will learn about effective motivation, goal setting, time management, problem-solving, group dynamics, team building, communication, stress management, and leadership styles. Students will clearly understand the fundamental concepts of the differences between people and how they work together. The student will learn to recognize and have respect for the individuality of others, no matter their capability, race, gender, or religion. The class will be involved in the planning and executing of major school activities, along with numerous school-related projects. A service-learning requirement may take place outside of the designated class period of the school day. Instructor approval is required. Course not offered every year. |
| LINKS | Grade: 11-12 <br> Length: Semester | LINKS is an elective class that pairs a student with special needs with a LINK for one scheduled class hour each day. This class focuses on assisting special needs students with socialization, independence, age appropriate behavior, and life skills. The class teaches general information about disabilities, behavior, myths, and stereotypes. Our goal is to spread awareness not only to students in the LINKS course but the whole community. The student enrolled in LINKS will be a mentor, role model, friend, and a "link" to the community and school for a student with a special need. Additionally, they will assist the student in such things as appropriate classroom behavior, organization of assignments and supplies, and focusing on what the teacher is saying. Course not offered every year. |
|  | Grade: 10-12 <br> Length: Semester | PEERS (Positively Empowering \& Encouraging ouR Students) is a course designed to educate students to provide support for peers with academic and social needs. The PEERS will serve as mentors, role models, and advocates. They will be assigned a classroom setting for a specific hour in the day that meets their schedule. This course will assist the student in acquiring an understanding and acceptance for diversity in everyday life and the work world ahead of them. Course not offered every year. |

