

Oak Park High School



Course Catalog

June 2019

Building Bridges to Success

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Mission

The mission of the Oak Park School District is to provide quality education in which we respect students' individual and cultural differences, educate all students to meet or exceed the District's academic standards, and ensure they possess college and career readiness skills necessary to become lifelong learners and productive citizens.

Oak Park School District Board of Education Members

Mr. Menachem Hojda, President
Mrs. Maxine Gutfreund, Treasurer
Mr. Albert Smith, III, Trustee
Mrs. Dawn Corporan, Trustee

Mrs. Mildred Warren, Vice President
Mrs. Claudette Lunkins, Secretary
Mrs. Crystal Bailey, Trustee

Message to Students and Parents/Guardians

This catalog is designed to give students and parents detailed information about the selection of classes and curricular aspects of the Oak Park High School program. At Oak Park High School, we offer a wide selection of classes for developing well-rounded students who are prepared for college and/or career. Selecting an appropriate course trajectory will help students to focus their education and will give them the opportunity to explore specific career areas that match their unique skills and talents.

A full high school experience allows many opportunities that prepare students for adulthood. Exploring, understanding and choosing wisely will provide each student with purpose and focus into their post-secondary years. We trust the high school experience will be meaningful, challenging and memorable.

OAK PARK FRESHMAN INSTITUTE 22180 Parklawn Oak Park, Michigan 48237

OAK PARK HIGH SCHOOL 13701 Oak Park Blvd. Oak Park, Michigan 48237

Administration

Dr. Daveda Colbert Superintendent
Karla BrowningDirector of Secondary Curriculum, Instruction and Assessment
Pam Vermiglio.....Principal, Oak Park Freshman Institute
Carissa Peterson Principal, Oak Park High School
Anthony Degrazia..... Assistant Principal, Oak Park High School
Janocus Sanders Assistant Principal, Oak Park High School

Telephone Numbers

High School Administrative Office 248.336.7740
Freshman Institute Administrative Office 248.336.7780
High School Fax 248.336.7758
Freshman Institute Fax..... 248.336.7758
High School Attendance Office..... 248.336.2789
Athletic Office 248.336.2715
High School Counseling Office..... 248.336.2834
Freshman Institute Counseling Office..... 248.336.7787

Policies and Resources

Attendance

We know that our students deserve every opportunity to succeed throughout their educational journey. That includes having safe transportation to school daily, nutritional breakfast and lunch options, at grade-level standards driven instruction by a certified instructional leader each day in every subject, meaningful interactions with all adults, and appropriate engagement with their peers. Regardless of how or where they enter the district, our students must exit the district with the tools necessary to succeed. (Superintendent Dr. Daveda J. Colbert)

To fulfill this promise, we ask for parents and guardians to support learning by ensuring students are in attendance at school on time every day. We recognize student attendance requires a partnership between home and school. Our goal is to provide multi-tiered systems of support in all aspects for our students and families to build bridges to success. Please contact the counseling office to inquire about supports for student attendance.

Grading

Oak Park Schools’ policy requires grades and marks to be a direct reflection of a student’s understanding and achievement on aligned learning target(s) or standard(s). The district is committed to ensuring grades reflect four critical criteria. Grades must be:

Accurate	Based on achievement of prescribed learning targets and standards.
Supportive of Learning	Grades send the message to students and parents that success lies in the learning, not accumulating points. With limited exceptions, summative assessments determine grades and students have multiple opportunities to demonstrate learning.
Timely and Meaningful	Communicate useful information to students and stakeholders in time for improvements to be made.
Equitable	Based on fairness, inclusion, and opportunity despite personal or social circumstances, such as gender, ethnic origin, or family background.

The district publishes a Grading Policy Guidance Document designed to add clarity and promote consistency in grading practices across the district. Interested stakeholders may access the Guidance document [here](#).

Academic Honor Roll

Students who achieve a 3.0 unweighted grade point average (GPA), or better, for the academic quarter are listed on the Honor Roll. Students who maintain a 3.0 unweighted GPA are encouraged to pursue membership in the National Honor Society. Inquire through your school counseling office.

Policy of Nondiscrimination

The Oak Park Board of Education complies with all federal laws and regulations prohibiting discrimination and with all requirements and regulations of the U.S. Department of Education. No person on the basis of sex (Title XI); race, color, religion national origin or ancestry, age, marital status (Title VI), or handicap (Section 504) shall be discriminated against, excluded from participation denied the benefits or otherwise be subjected to discrimination in any program or activity for which it is responsible or for which it receives financial assistance from the U.S. Department of Education. Complaints should be addressed to:

Dr. Daveda J. Colbert, Superintendent
 Administration Building 13900 Granzon
 Oak Park High School Course Catalog

Academic Eligibility for Athletics and Extra-Curricular Activities

Previous Semester High School Eligibility: During the previous semester, the student-athlete or club member must have maintained a 2.0 GPA. If a student-athlete or club member fails to do so, he/she will be ineligible to compete or participate for the entire next semester.

Current Marking Period High School Eligibility: During the current marking period, the student-athlete or club member must be passing all classes at the nine week eligibility check in order to be eligible to compete or participate for the remainder of that semester. Student-athletes and club members who are determined to be ineligible at one of the nine week reports will be ineligible a minimum of one week. After one week, an academic progress report must be circulated to the student-athlete's or club member's teachers and submitted to the Athletic Director (for student-athletes) or the sponsor of the extra-curricular activity (for club members) for eligibility verification. This process will continue until the student-athlete's or club member's progress report indicates that he/she is currently passing all classes.

NCAA Eligibility

Any student planning to participate in a Division I or Division II college sport must be academically eligible and registered with the NCAA Eligibility Center.

Students interested should have registered prior to their senior year and have planned their schedule based on NCAA requirements. If you did not register prior to senior year, you need to do so early in your senior year.



It is the student/parent responsibility to be familiar with these standards and guidelines. The NCAA guide and registration information is available at www.eligibilitycenter.org. Please contact your NCAA Counselor if you have any questions.

Dual Enrollment

This program is designed to provide an opportunity for qualified high school students to earn college credit concurrently with their high school study, college credit, which may count toward a college degree program. Dual enrollment may also allow for a student to earn credit toward an Oak Park High School diploma, according to state mandated guidelines.

For eligibility in the Academic Dual Enrollment program:

1. A student must be working toward graduation requirements at Oak Park High School.
2. A student must be at least in the 11th grade (12 credits) or in the 12th grade (18 credits).
3. A student has taken all standardized tests and tested proficient in each area.
4. The student must be enrolled in the post-secondary institution during the district's regular academic year.
5. The post-secondary course must be an academic course that is not offered by the district. An exception to this could occur if the Board of Education determines that a scheduling conflict exists which is beyond the student's control.
6. The college course is not a hobby, craft, recreation or physical education course and is not a course in the subject areas of theology, divinity, or religious education.
7. The student must have written recommendation from his/her high school academic advisor and the cooperative teacher.
8. Three (3) or four (4) semester hours of credit at an accredited institution (e.g. OCC, OU) will equal 0.50 semester's credits at OPHS.
9. The academic counselor and cooperating teacher determines whether or not the student qualifies for dual enrollment status based on state mandated and accredited institution guidelines.
10. The academic counselor and/or cooperating teacher provide the Dual Enrollment Application Packet to those students who qualify. The student must follow the directions on the packet specific to Oakland University or Oakland

Community college. Completed packets must be signed by the parent and returned to the academic advisor or cooperative teacher.

If a student meets all of the above conditions, approval to register at the post-secondary institution will be granted.

Oakland Schools Technical Campus (OTEC)

OTEC offers cutting-edge, hands-on learning for students who want to graduate high school with industry certifications, on-the-job experiences, business connections and college credits. With 18 program offerings from Construction Technology and Culinary Arts to Health Sciences and Welding, CASA provides an opportunity for students to jump start their careers while still in high school. Eligibility requirements apply.

Center for Advanced Study and the Arts (CASA)

CASA is a consortium school serving Berkley, Clawson, Ferndale, Lamphere, Madison, Oak Park and Pontiac school districts. CASA offer sixteen Advanced Placement courses, a vibrant visual arts curriculum and a robust advanced dance program. Eligibility requirements apply. See your counselor for additional information about CASA opportunities.

Course Changes (Drop/Add)

Students are encouraged to select their courses carefully, as course changes at a later date are not guaranteed. Once school is actually in session, students may not enter a new class after the third full week of school unless approved by an administrator. Schedule changes will be rare and based only on extenuating circumstances.

Community Service

All Oak Park students complete 40 community service hours as a requirement for graduation. Students seek out a non-profit community organization for volunteer work experience. Students have the opportunity to grow personally, gain satisfaction from helping others, and explore a future career through their volunteer work. Students do not receive any transportation or monetary compensation nor do they receive any early release time connected to community service hours. Hour sheets must be submitted upon completion. Credit will be granted after all signed documentation of hours are verified. The Community Service form must be completed within two weeks after the 40 hour requirement is met. A maximum of .5 elective credits may be earned by any student who completes the Community Service requirement. Twelfth grade students must have all hours submitted by May 1st of their senior year.

Edgenuity (E2020)

Education2020 (E2020) is an online credit recovery program offered for eligible students. It is a multimedia-rich Virtual Classroom and Virtual Tutor that engages students in the learning process through animations, simulations, video-based presentations, online content, vocabulary and exploration activities that support each lesson presented by a Highly Qualified Virtual Classroom Teacher. E2020 is aligned to the national and state standards and provides a comprehensive curriculum in the core areas including Mathematics, Science, English, Social Studies and elective courses. Approximately 25 core and elective classes are available for .5 credit (electives) or 1 credit (core classes).

To receive credit, students must have a grade of 60% or better after completing 100% of the coursework.

Counselor recommendation is required in order for a student to enroll in E2020 Courses.

Testing Out Policy

Consistent with the Michigan School Code, Oak Park High School provides the opportunity for eligible high school students to “test out” of certain courses. The “test out” option does not apply to those courses in which students are currently enrolled.

In order to test out, students will need to exhibit mastery of the subject matter of the course by attaining 90% on the district approved Testing Out instrument(s). Testing dates for the exams will be held the first two (2) weeks or the last two (2) weeks of a semester.

A student successfully testing out of a course will be awarded credit in that class and a “pass” with no letter grade recorded on the transcript and no effect on the grade point average. A successful test out will be counted toward fulfillment of a requirement within a subject area and will be counted toward fulfillment of a requirement as to course sequence. For example,

testing out of a science course will enable a student to take the next course in the science sequence as well as to satisfy one of the three credits in science required to graduate. Credit earned does count toward fulfillment of the subject area and course sequence requirements and will apply toward graduation provided the student has earned at least 18 credits in the traditional way. Once a student earns credit through this option, students cannot receive credit in a lower course(s).

It is important for parents and students to understand that “testing out” does not replace all of the experiences and learning that occur during the course of attending a class. Research shows that much of the learning in semester courses is not tested. Thus, to take a final exam in place of a class does not assure that student full mastery of the course content, concepts, information and skills.

The district does not provide Testing Out instruments in all areas of study. For an updated list of courses with test out options, please contact the Office of Curriculum, Instruction and Assessment.

Graduation Requirements

Seniors must have successfully completed all the requirements for graduation to take part in commencement. Grade Level Classification: (Credit Minimum)

Ninth Grade	0-5.5 credits
Tenth Grade	6-11.5 credits
Eleventh Grade	12-17.5 credits
Twelfth Grade	18-22+ credits

8 semesters of attendance. A semester of attendance is defined as a semester in which a student is enrolled in 6 or more classes.

Earn a minimum of 22 cumulative credits earned in grades 9-12 as listed below.

- 4 credits in English including English Language Arts 9, ELA - 10, ELA - 11, ELA - 12
- 4 credits in Mathematics including Algebra I, Geometry, Algebra II, Pre-Calculus / Math-related electives
- 3 credits in Science including Biology, Chemistry or Physics and science electives
- 3 credits in Social Studies including U.S. History, World History, U.S. Government, & Economics
- 2 credits World Language
- .5 credit Health
- .5 Physical Education elective
- On-line learning experience (completion of EDP)
- 1 credit Visual, Fine or Performing Arts
- .5 Community Service (40+ hours)
- 2.0 + elective credits

Distribution of Credits

ENGLISH

Required Courses (4 Credits Required)

9th Grade: English Language Arts (ELA-9) A and B

10th Grade: ELA-10 A and B

11th Grade: ELA-11 A and B

12th Grade: ELA-12 A and B

SOCIAL STUDIES

Required Courses (3 Credits Required)

9th Grade: US History A and B

10th Grade: Government A and Economics A

11th Grade: World History & Geography A and B

MATHEMATICS

Required Courses (4 Credits Required)

8th or 9th Grade: Algebra I A and B

9th or 10th Grade: Geometry A and B

10th or 11th Grade: Algebra II/Trig. A and B

12th Grade: Advanced Math, Pre-Calculus, Calculus, Probability & Statistics or Math elective

Recommended: Pre-Calculus /Probability and Statistics or any other Math-Related course

SCIENCE

Required Courses (3 Credits Required)

9th Grade: Biology A and B

10th Grade: Chemistry A and B or Physics A and B

11th Grade: Chemistry A and B or Physics A and B

12th Grade: Electives (AP Chemistry, AP Biology, Pre-Engineering, Astronomy, or Anatomy and Physiology, Environmental Science, Forensic Science, other)

PHYSICAL EDUCATION & HEALTH

Required Courses (.5 PE elective and .5 Health Credit Required)

Physical Education/Health

WORLD LANGUAGE

Required Courses (2 Credits Required)

Spanish I, II A and B

French I, II A and B

Japanese I, II A and B

VISUAL, PERFORMING, AND APPLIED ARTS

Possible Courses (1 Credit Required)

Drama

Exploratory Art/Fundamentals of Art

Sculpture

Choir / Concert Band A and B

Ceramics

Theater

Humanities

Digital Photography

Additional courses are available to elect

ON-LINE LEARNING EXPERIENCE

As part of the Michigan Merit Curriculum, all students must accumulate twenty (20) hours of online experience before graduating. Each student, through his/her enrollment in Oak Park courses in grades 9 – 12, will satisfy this requirement.

ELECTIVES

Possible Courses (2.0+ Credits Required)

ELA Electives
Forensic Science
Computer Science Courses
Robotics
Visual and Performing Arts Courses
Music Courses
Well Being Courses

Course Offerings

English Language Arts

Course Name: English Language Arts Grade 9

Course Description: This course builds the solid foundation of knowledge, skills and strategies needed to critically examine written works and other methods of communication. Students will synthesize information, ideas and themes to understand the past and present, and to think innovatively about the future. This one-year course provides instruction in the English Language Arts strands identified by the Common Core State Standards as reading, writing, speaking and listening, and language.

Course Prerequisites: None

Course Length: Full year

Course Name: English Language Arts Grade 9 Honors

Course Description: This course solidifies and extends knowledge, skills and strategies needed to critically examine written works and other methods of communication. Students will synthesize information, ideas and themes to understand the past and present, and to think innovatively about the future. This one-year course provides instruction in the English Language Arts strands identified by the Common Core State Standards as reading, writing, speaking and listening, and language.

Course Prerequisites: Enrollment criteria include attendance, NWEA MAP and M-Step or PSAT scores

Course Length: Full year

Course Name: College Readiness ELA 9

Course Description: Students will identify, refine, and improve their reading strengths to augment their skills in all high school studies. Students will study in-depth academic vocabulary and vocabulary in context. Students will read a variety of text including fiction, nonfiction and informational text. A variety of blended learning will be included utilizing IXL and other online programs.

Course Prerequisites: Enrollment criteria include attendance, NWEA MAP and M-Step or PSAT scores

Course Length: Semester

Course Name: English Language Arts Grade 10

Course Description: Developing students' knowledge of textual elements and structures enabling them to engage in close reading of increasingly complex texts is the focus of ELA 10. Analytical skills and strategies are developed while moving from a variety of literature genres to a variety of nonfiction genres including foundational documents from American history,

multi-media, and visual texts. Students work with literary non-fiction, and informational text types in both their reading and writing. Skills of argumentation are deepened with close study and development of claims, counterclaims, line of reasoning, and building evidence-based arguments. Course activities align to Common Core State Standards for English Language Arts.

Course Prerequisites: English Language Arts Grade 9

Course Length: Full year

Course Name: Pre-AP English Language Arts Grade 10

Course Description: Preparing students for AP English Language & Composition through rigorous coursework is the focus of this honors track course. Developing knowledge of textual elements and structures enables students to engage with complex texts. Analytical skills and strategies are developed as students explore a variety of fiction and non-fiction genres including foundational documents from American history, multimedia and visual texts. Argumentation skills are deepened as they study and develop claims, counterclaims, lines of reasoning and building evidence based arguments. Course activities align to Common Core State Standards for English Language Arts.

Course Prerequisites: English Language Arts Grade 9; Enrollment criteria include attendance, NWEA MAP and M-Step or PSAT scores

Course Length: Full year

Course Name: English Language Arts Grade 11

Course Description: This course reinforces the prerequisites of ninth and tenth grade ELA competencies through additional writing, literature, listening and speaking skills to prepare students for English 12. Students will explore a wide variety of authors and genres, including short story, fiction, non-fiction (information and argument), and memoir. Students will write in a variety of genres to improve proficiency as writers. State approved Common Core standards are followed throughout the full school year.

Course Prerequisites: English Language Arts Grade 10

Course Length: Full year

Course Name: Advanced Placement English Language and Composition

Course Description: Comprised of an intensive study of language and composition as it relates to being a reader as well as a writer, this course is designed to challenge college-bound students by offering a rigorous curriculum that helps them reach their highest potential. Students will read primarily non-fiction in this course and use a plethora of authors to mentor their own writing. A wide range of genres will be used for critical analysis. Students will use rhetorical skills to analyze texts in close reading and annotating activities. Writing as a process will be taught, modeled and practiced in this course.

Course Prerequisites: English Language Arts Grade 10

Course Length: Full year

Course Name: English Language Arts Grade 12

Course Description: Following Common Core State Standards, students develop knowledge of textual elements and structures enabling them to engage in close reading of increasingly complex texts. They also develop analytical skills and strategies while moving from a variety of literature genres to a variety of nonfiction genres. Students study novels, Shakespeare's Hamlet and informational texts. Students examine texts for bias and point of view in readers and writers texts, and extend this thinking as they research topics of personal interest.

Course Prerequisites: English Language Arts Grade 11

Course Length: Full year

Course Name: Advanced Placement English Literature and Composition

Course Description: Enroll in AP English Literature and Composition to ensure preparation for college level English Courses and for the College Board's AP exam. Students will engage in extensive reading, writing, and analytical thinking while exploring literature from many eras and genres. Close reading and annotating activities as well as writing as a process are taught, modeled and practiced. In addition to teacher feedback, students are given the opportunity for in class peer review.

Course Prerequisites: English Language Arts Grade 11

Course Length: Full year

Course Name: Humanities

Course Description: This semester long course focuses on the thematic study of human relationships and cultures with an interdisciplinary approach using Literature, History, and Music. Students will learn how the areas of Humanities connect to and affect each other by exploring their own writing, improving their reading skills and understanding the reader/writer connection. Students will write and analyze literature individually and/or in groups, while developing their speaking and delivery skills through individual and/or group speeches, presentations and/or performances. This course is aligned to the current Common Core State Standards for ELA and the HSCEs for Social Studies.

Course Prerequisites: None

Course Length: Semester

Course Name: Introduction to Journalism

Course Description: In this course students interested in journalism and the media will explore the contemporary media and the ethical responsibility issues inherent in the press today. Students will know the fundamentals of news, news history, ethics, news and feature writing. Students will explore current events and news coverage. Successful completion of this course will bring an awareness of current issues that affect their lives and also help them gain writing skills for their ELA classes and beyond. Common Core State Standards for ELA form the basis of course content.

Course Prerequisites: None

Course Length: One Semester

Course Name: African American Literature

Course Description: African-American Literature is an introductory course to the examination of the collective and individual African-American "identity" as told through Black literary expression. This course facilitates critical thinking, reading, writing, listening, and viewing as students analyze visual and written text significant to the African-American experience. Common Core State Standards for ELA form the basis of course content.

Course Prerequisites: None

Course Length: One Semester

Course Name: Creative Writing

Course Description: This semester long course will offer students an opportunity to read and write a variety of texts. Students will be able to explore the many ways to be creative with the pen. This course will examine: poetry, micro fiction,

short story, 1 act plays, literary nonfiction, and memoir. After reading samples, students will play with various techniques to gauge what works best for them as a writer. Students will be encouraged to take risks with their writing and push themselves in the field of composition. The only limiting factor is the student's imagination. Common Core State Standards for ELA form the basis of course content.

Course Prerequisites: None

Course Length: One Semester

Course Name: Ethnic Literature

Course Description: This semester-long course will explore texts written by authors from around the world. As a result, students will be exposed to cultures, traditions, rituals, religions, etc. unlike their own. Students will be to read about these things in other places and compare them within their own lives. Written analyses, various assessments, and classroom participation are crucial for successful completion. Common Core State Standards for ELA form the basis of course content.

Course Prerequisites: None

Course Length: One Semester

Mathematics

Course Name: Algebra 1

Course Description: Students will explore the relationship between quantities and how they can be used to solve real world problems. This will be accomplished through the study of functions and representations. Key areas of study include linear, exponential and quadratic functions as means to model real-world scenarios. Students extend their study of linear functions through systems of equations and inequalities. Use of a graphing calculator is embedded in the course. This course meets the Algebra I requirements from the State of Michigan as well as the National Common Core State Standards.

Course Prerequisites: None

Course Length: Full year

Course Name: Honors Algebra 1

Course Description: This course is a more rigorous and faster paced version of standard Algebra 1. Students will explore the relationship between quantities and how they can be used to solve real world problems. This will be accomplished through the study of functions and representations. Key areas of study include linear, exponential and quadratic functions as means to model real-world. Students extend their study of linear functions through systems of equations and inequalities. Use of a graphing calculator is embedded in the course. This course meets the Algebra I requirements from the State of Michigan as well as the National Common Core State Standards.

Course Prerequisites: None

Course Length: Full year

Course Name: Geometry

Course Description: Through exploring an introduction of geometric skills and concepts based on the Common Core State Standards, students will learn the relationships and properties of geometric figures, congruence, similarity, circles, measurement (perimeter, circumference, area, surface area, volume, angle measure), the Pythagorean Theorem, inductive and deductive reasoning, and proof writing. This class is crucial to fulfill graduation requirements and some of the topics in Geometry are found on the SAT Additional Math Topics section.

Course Prerequisites: Algebra 1

Course Length: Year-long

Course Name: Honors Geometry

Course Description: For students who have successfully completed Honors Algebra 1 or Algebra 1 this course offers students an opportunity to learn geometry at a more rigorous pace than the traditional geometry course offered in the high school. This course pushes students to go beyond thinking at a critical level, but requires students to justify and explain their reasoning to others. Honors geometry also requires students to apply each unit of study to a real world project that will extend student understanding beyond procedural understanding to true application. This course is designed to extend student's understandings of basic geometric principals learned in middle school. Students explore more complex geometric conditions; deepen their explanations of geometric relationships; create and explain formal mathematical arguments. Students build a formal understanding of similarity to triangles, which forms the basis of right triangle trigonometry. Additionally, students expand their understanding of two and three dimensional objects to circles which are used to create formal proofs for tangent lines, radius, angles, chords, in addition to segment lengths and angle measures.

Course Prerequisites: Algebra 1 and satisfactory scores on NWEA and PSAT Math

Course Length: Year-long

Course Name: Algebra 2

Course Description: Students will expand on the mathematical knowledge of Algebra 1 and Geometry. Many new concepts and skills are introduced based on the Common Core State Standards that will be familiar to more advanced. The emphasis is on abstract thinking skills, the function concept, and the algebraic solution of problems in various content areas. Major topics include absolute value and inequalities, simultaneous linear systems, complex numbers, quadratic functions, logarithms, arithmetic and geometric series, and trigonometry. Algebra 2 is a graduation requirement that includes multiple core topics found on the SAT Heart of Algebra and Passport to Mathematics sections.

Course Prerequisites: Algebra 1 and Geometry

Course Length: Year-long

Course Name: Honors Algebra 2

Course Description: This course is designed for students who have successfully completed Honors Geometry or Geometry in 9th or 10th grade. Honors algebra 2 offers students an opportunity to learn algebra 2 at a more rigorous pace than the traditional algebra 2 course offered in the high school. The purpose of this class is to set students up to successfully complete pre-calculus in high school and all entry level math courses in college. Honors algebra 2 students are introduced to the same topics taught in the regular algebra 2 class: polynomial, rational and radical functions, the unit circle, polynomial arithmetic, zeros of polynomials, complex number system, probability distributions. However, this class pushes students to think more conceptually, for example students are introduced to matrices as a way to solve systems of equations. Students are taught how to apply rules of transformations to make predictions about various types of graphs.

Course Prerequisites: Algebra 1, Geometry, and satisfactory scores on NWEA and PSAT Math

Course Length: Year-long

Course Name: Discrete Math

Course Description: Students will learn to understand the basics of discrete structures that are backbones of computer science. In particular, this class is meant to introduce graph theory, matrix operations, set theory, voting systems, fair division and counting principles. This class serves as an additional option for students to complete 4 years of high school math credits for graduation requirements. Course content drawn from the Common Core State Standards for Mathematics.

Course Prerequisites: 3 Years of high school mathematics

Course Length: Year-long

Course Name: Probability & Statistics

Course Description: Probability & Statistics is an introduction to probability, analyzing data, statistical problem solving found in the Common Core State Standards. The course is designed to provide students with a foundation in probability and the ability to process statistical information. Core topics include counting principles, standard distributions (e.g., normal, binomial), variance, standard deviation, and organizing and describing distribution of data. This class is important as an additional option for students to complete 4 years of high school math credits for graduation requirements.

Course Prerequisites: 3 Years of high school mathematics

Course Length: Year-long

Course Name: Pre-Calculus

Course Description: Students will continue to further advance in topics within Algebra Common Core State Standards ranging from polynomial, rational, and exponential functions to conic sections. Trigonometry concepts such as Law of Sines and Cosines will be introduced. Students will then begin analytic geometry and calculus concepts such as limits, derivatives, and integrals. This class is important for any student planning to take a college algebra or college pre-calculus class.

Course Prerequisites: 3 Years of high school mathematics and satisfactory score on NWEA and SAT Math

Course Length: Year-long

Science

Course Name: Biology

Course Description: This course is designed to teach students the study of scientific methodology, molecular biology, cells and their structures, energy and metabolism, the study of cell division, DNA, protein synthesis, environmental science and ecology. Real world phenomena, current issues and engineering challenges will be used as the focus for concept development. The course is aligned to the Michigan Science Standards, which are based on the nationally developed Next Generation Science Standards.

Course Prerequisites: None.

Course Length: Full year

Course Name: Honors Biology

Course Description: Honors Biology covers topics typically covered in a high school biology course and prepares students for college Biology. Students study the structures, functions, and processes of living organisms and their interactions with the environment. Major themes include cell structure, and energy. Students learn complex biological concepts through interactive web-based applications, and knowledge is assessed through quizzes, tests, and projects. The course is aligned to the Michigan Science Standards, which are based on the nationally developed Next Generation Science Standards.

Course Prerequisites: None.

Course Length: Full year

Course: Chemistry

Course Description: Chemistry is an inquiry-based course designed to motivate, instruct, and excite students about the science of chemistry. The Chemistry curriculum incorporates properties of matter, properties of elements, atomic structure, nuclear chemistry, and chemical bonding, molar mass, balancing equations, thermochemistry, gas laws, pH, acids, bases, salts, and solutions. The course is aligned to the Michigan Science Standards, which are based on the nationally developed Next Generation Science Standards.

Course Prerequisite: Biology

Course Length: Full year

Course Name: Honors Chemistry

Course Description: This course is designed for students who have shown a proficiency in studying science and who have exhibited interest and enthusiasm for science. Honors Chemistry will motivate, instruct, and excite students about the science of chemistry while providing students with a comprehensive scope of the Next Generation Science Standards. The Honors Chemistry curriculum incorporates properties of matter, properties of elements, atomic structure, nuclear chemistry, and chemical bonding, molar mass, balancing equations, thermochemistry, gas laws, pH, acids, bases, salts, and solutions.

Course Prerequisite: Biology

Course Length: Full year

Course Name: Physics

Course Description: The physics curriculum has been designed to provide students with a broad yet focused approach to the mastery of physics topics and concepts: Understanding Qualitative and Quantitative Scientific Theory, Vector Mathematics, Forces and Motion, Conservation of Energy and Momentum, Properties of Waves, Electrical Fields and Current and Modern Physics. The course is aligned to the Michigan Science Standards, which are based on the nationally developed Next Generation Science Standards.

Course Prerequisites: Algebra I/Algebra II and Geometry

Course Length: Full year

Course Name: Honors Physics

Course Description: The physics curriculum has been designed to provide students with a focused approach to the mastery of physics topics and concepts using advanced mathematics: Understanding Qualitative and Quantitative Scientific Theory, Vector Mathematics, Forces and Motion, Conservation of Energy and Momentum, Properties of Waves, Electrical Fields and Current and Modern Physics. This course aligns to the Michigan Science Standards and Next Generation Science Standards.

Course Prerequisites: Algebra I/Algebra II and Geometry

Course Length: Full year

Course Name: Science of Engineering

Course Description: This class emphasizes project based learning. The need for engineers is great and this is a course designed to give students a taste of the several different types of engineering fields, such as Civil, Alternative Energy, Marine and Mechanical. The course starts with the basics for all types of engineers and then goes into four different types of engineering. The culmination will be the underwater ROV competition between the groups and the winners earn the privilege

of going to a state-wide competition in March. Course is designed to incorporate the science and engineering practices from the Next Generation Science Standards.

Course Pre-requisites: None

Course Length: Full year

Course Name: Robotics Technology

Course Description: Utilizing Arduino technology, GPS and sensors, Autonomous IVD vehicles must traverse a challenge course and avoid obstacles without driver assistance. Student teams compete at the Innovative Vehicle Design Challenge Day in performance, engineering and craftsmanship, design innovation, ambassadorship, and presentation categories and this year's P3 Innovation Award and scholarship program. Course is designed to incorporate the science and engineering practices from the Next Generation Science Standards.

Course Pre-requisites: None

Course Length: Full year

Course Name: Forensic Science

Course Description: This course is designed to have the students practice the principles of crime scene investigations in real world scenarios. Some units covered include entomology, forensic anthropology, handwriting analysis and types of evidence. The course is aligned to the Michigan Science Standards and the nationally developed Next Generation Science Standards.

Course Prerequisites: None.

Course Length: Full year

Course Name: Astronomy

Course Description: This course, which is based on the first level of an Astronomy program, is designed to focus intently on the most important aspects of Astronomy. We will begin by examining historical astronomy, formation of the universe and all of the atoms in it, and how galaxies stars and planets were made, planetary and stellar evolution, understand the evolution of galaxies and analyze the probability of life. The course is aligned to the Michigan Science Standards and the nationally developed Next Generation Science Standards.

Course Prerequisites: None.

Course Length: Full year

Social Studies

Course Name: U.S. History: Reconstruction to Present

Course Description: Students will study the impact of political, economic and social developments from post-civil war reconstruction to the present, as well as the interaction among people of different national origins, races and cultures and how such interaction has shaped our history. Emphasis is placed on how World and U.S. events have affected our world today. The course has eight units of instruction: Politics to 1877, Becoming a World Power, Progressivism and reform, Great Depression/ New Deal, World War II, Cold War, Civil Rights/ Vietnam War, America in a New Global Age. This course is aligned to the current HSCEs for Social Studies.

Course Prerequisites: None

Course Length: Full year

Course Name: U.S. Government

Course Description: Explore the philosophical foundations of democratic government in the United States. The structure and functions of national and state government under the American federal system. Students strengthen their understanding of the legal rights and accompanying responsibilities shared by all citizens of our constitutional democracy. They explore American political behavior. Through discussions and writing, they practice making reasoned decisions about matters of public policy. This course is also offered on an honors track, and both are aligned to the current HSCEs for Social Studies.

Course Prerequisites: None

Course length: Semester

Course Name: Economics

Course Description: Students deepen their understanding of basic economic concepts and apply them to national and international problems. In addition to the study of macroeconomics, students study personal finance and business in a free market economy. They learn about the banking system, stock market, taxation, productivity, marketing and advertising. Students compile, analyze and present statistical data pertinent to economic problems. Make informed decisions as consumers and to participate as citizens in deciding matters of economic policy. This course is aligned to the current HSCEs for Social Studies.

Course Prerequisites: None

Course length: Semester

Course Name: World History

Students will explore the history of the world beginning with an overview of ancient civilizations to present day to draw comparisons, connections and patterns that will leave them with the ability to think critically about the world we live in today. Students will be able to read, write and analyze documents to build a historical argument. Students will become globally informed citizens. This course is also offered on an honors track and both are aligned to the current HSCEs for Social Studies.

Course Prerequisites: Government

Course Length: Full year

Course Name: Advanced Placement World History

Course Description: Students will explore the history of the world beginning with 1000 CE to present day to draw comparisons, connections and patterns that will develop the ability to think critically about the world we live in today. Students will be prepared to read, write and analyze documents at a collegiate level. At the end of the course students will have the opportunity to take a test which may result in earning college credit. This course is aligned to the current HSCEs for Social Studies.

Course Prerequisites: None

Course Length: Full year

Course Name: Humanities

Course Description: This semester long course focuses on the thematic study of human relationships and cultures with an interdisciplinary approach using Literature, History, and Music. Students will learn how the areas of Humanities connect to

and affect each other by exploring their own writing, improving their reading skills and understanding the reader/writer connection. Students will write and analyze literature individually and/or in groups, while developing their speaking and delivery skills through individual and/or group speeches, presentations and/or performances. This course is aligned to the current Common Core State Standards for ELA and the HSCEs for Social Studies.

Course Prerequisites: None

Course Length: Semester

Course Name: Civil Rights

Course Description: This elective social studies course will explore a history of American civil rights, beginning with Reconstruction (1865-1877) through Jim Crow and the first (1880-1950) and second (1954-1969) Civil Rights Movements, before examining how this history relates to Black Lives Matter and related current events. Our inquiry-based journey will include honest self-assessments, in-class research and debate, student exchange field trips and a final research project, as we try to determine if we are involved in a civil rights moment or just witnessing one. This course is aligned to the current HSCEs for Social Studies.

Course Prerequisites: Government

Course Length: One Semester

Course Name: You and the Law

Course Description: With ongoing controversies and current events, many citizens are starting to explore how to get more involved in trying to be an agent of positive change, even in an atmosphere of increased discrimination, poverty and violence. This one-semester social studies elective will attempt to further explore questions raised in the Civil Rights course by focusing on essential pre-law concepts with a local, "street" perspective, along with basic legal awareness and international human rights. We will conclude with deeper investigations into what could be done about social, economic and legal injustice. This course is aligned to the current HSCEs for Social Studies.

Course Prerequisites: Government

Course Length: One Semester

Electives

World Language

Course Name: French 1

Course Description: Students will begin their acquisition of French in the areas of reading, writing, listening, and speaking. They will achieve a basic level of comprehension of French, begin to interact in French using proper social norms, and begin appropriate exploration and interaction with francophone history and culture. This course is aligned to the Michigan World Language 5C Standards and ACTFL Performance Guidelines for K-12 Learners at the Novice Level.

Course Prerequisites: None

Course Length: Full Year

Course Name: Spanish 1

Course Description: Students will begin their acquisition of Spanish in the areas of reading, writing, listening, and speaking. They will achieve a basic level of comprehension of Spanish, begin to interact in Spanish to using proper social norms and begin appropriate exploration and interaction with Spanish history and culture. This course is aligned to the Michigan World Language 5C Standards and ACTFL Performance Guidelines for K-12 Learners at the Novice Level.

Course Prerequisites: None

Course Length: Full Year

Course Name: French II

Course Description: Students will review level I and expand upon the learned concepts by: continuing their acquisition of French in the areas of reading, writing, listening and speaking, achieving a higher level of comprehension of French, interacting in French to demonstrate understanding at the Novice level and exploring and interacting appropriately with francophone culture and history. This course is aligned to the Michigan World Language 5C Standards and ACTFL Performance Guidelines for K-12 Learners at the Novice Level.

Course Prerequisites: Successful completion of French IA and IB

Course Length: Full Year

Course Name: Spanish II

Course Description: Students will review level I and expand upon the learned concepts by: continuing their acquisition of Spanish in the areas of reading, writing, listening and speaking, achieving a higher level of comprehension of Spanish, interacting in Spanish to demonstrate understanding at the Novice level and exploring and interacting appropriately with Spanish culture and history. This course is aligned to the Michigan World Language 5C Standards and ACTFL Performance Guidelines for K-12 Learners at the Novice Level.

Course Prerequisites: Successful completion of Spanish IA and IB

Course Length: Full Year

Course Name: English Language Development

Course Description: The ESL Level 1 course is an introduction to the English language and American culture. It is intended for students who have not yet studied English and for those students scoring 1-3 on the WIDA ACCESS PLACEMENT TEST (W-APT). The goal of this course is to develop academic language and empower language learners to become valued contributors within their learning communities. In this yearlong course, students begin to communicate in English by reading, writing, listening, and speaking about their school routines, healthy lifestyles, American cultural activities, and personal goals. The focus of this course is to support the development and use of academic English in the content areas of English Language Arts (ELA), mathematics, science and social studies. (Curriculum has been adapted from Oakland Schools Atlas Rubicon)

Course Prerequisites: None

Course Length: Full year

Theatre Arts Courses

Course Name: Drama

Course Description: Students will learn the skills and develop the knowledge to create a performance. Tenth through twelfth grade students will create performances in mime, poetry, scenes, and improvisation that will show an improved ability to

demonstrate the performance elements of theatre. This one semester course provides instruction in the State of Michigan's Theatre Arts Standards.

Course Prerequisites: None

Course Length: Semester

Course Name: Children's Theatre and Improvisation

Course Description: Students will learn the skills and develop the knowledge to create a play for children. Tenth through twelfth grade students will create adaptations of fairy tales and their own original plays. Students will create tableaus and improvisations of fairy tales that will show an improved ability to demonstrate the performance elements of theatre. This one semester course provides instruction in the State of Michigan's Theatre Arts Standards.

Course Prerequisites: None

Course Length: Semester

Course Name: Theatre Production

Course Description: Students will learn the skills and develop the knowledge to create the technical elements of theatre. Tenth through twelfth grade students will create scenery, costume, properties, music, lighting, sound and makeup designs for a variety of genres of theatre. This one semester course provides instruction in the State of Michigan's Theatre Arts Standards.

Course Prerequisites: None

Course Length: Semester

Visual Arts Courses

Course Name: Explore Art

Course Description: Students will learn and apply various artistic methods and materials. Students will explore: pen and ink, colored pencils, weaving, pastels, watercolor, and other painting techniques. This semester course explores artists throughout history and encourages students to critique themselves and creatively problem solve. Students examine the elements of art and the principles of design. This course aligns with the Michigan Visual Arts Standards.

Course Prerequisites: None

Course Length: One Semester

Course Name: Art History

Course Description: Students will explore different eras within history in order to explore artistic connections. Tenth through twelfth grade students will create artwork that demonstrates their learning at the end of each unit. The major units of study are: Prehistoric Art, Egyptian Art, Greek Art, Roman Art, African Art and Art Ethics. This one semester course provides instruction in the State of Michigan's Visual Arts Standards.

Course Prerequisites: None

Course Length: Semester

Course Name: Fundamentals of Art

Course Description: An introduction to the formal language of visual art, this one semester course explores the application of the Elements of Art and Principles of Design to create small-scale, visual compositions (basic drawing, painting, and sculpture). Learn the language and practice fundamental design and technical application skills. This course aligns to State of Michigan High School Content Expectations for Visual Arts.

Course Prerequisites: None

Course Length: Semester

Course Name: Painting

Course Description: Explore basic painting techniques and concepts, with an emphasis on color theory in this one-semester course, while continuing to refine, apply, and extend knowledge of composition design, Elements of Art and Principles of Design. This course aligns to State of Michigan High School Content Expectations for Visual Arts.

Course Prerequisites: None

Course Length: Semester

Course Name: Sculpture

Course Description: Explore and apply a variety of techniques in this course such as working with 3-Dimensional space and different hand building techniques with a variety of materials. Focus on the Elements (specifically Line, Shape, Color, Texture, and Space/Form) and Principles of Design (specifically Repetition, Balance, Unity, Harmony), as well as how to apply these concepts while creating art work. This course aligns to State of Michigan High School Content Expectations for Visual Arts.

Course Prerequisites: None

Course Length: Semester

Course Name: Ceramics

Course Description: Explore and apply a variety of techniques in this course such as working with 3-Dimensional space, different hand building techniques, sculpting with clay, as well as the Glazing and Clay Firing Processes. Focus on the Elements (specifically Line, Shape, Color, Texture, and Space/Form) and Principles of Design (specifically Repetition, Balance, Unity, Harmony), as well as how to apply these concepts while creating art work. This course aligns to State of Michigan High School Content Expectations for Visual Arts.

Course Prerequisites: Sculpture

Course Length: Semester

Course Name: Contemporary Art: Murals & Graffiti

Course Description: An introduction to the contextual and practical aspects of large-scale, public works of art. Learn and practice basic project management, design, and technical application skills, while developing an understanding of the role art can play in the context of social and community spaces. Explore existing works, engage in community discussion about subject-matter, and collaborate to develop, design, and implement a specific vision for a public work of art. This course aligns to State of Michigan High School Content Expectations for Visual Arts.

Prerequisite: Fundamentals of Art or Painting.

Course Length: Semester

Music Courses

Course Name: Concert Band (OPFI)

Course Description: Concert Band is designed to give student an enriching and diverse instrumental music education. This class provides a number of performance opportunities for the student in a variety of settings. Activities involving performance techniques, general musicianship and creative/critical thinking are emphasized during rehearsals. The daily objective of the course is to foster and promote musical growth through the playing of an instrument by the student. As a member of the band program, group effort and cooperation is necessary to a successful program. Participation in concert band is a skilled effort in which each student is expected to show technical and musical growth throughout this course. Instruction is guided by the music curriculum standards set forth by the state of Michigan.

Course Prerequisites: None

Course Length: Full year

Course Name: Concert Choir

Course Description: The main goal of this course is to further develop choral technique, music reading and the joy of making music. Concert performances are required as the choir is a team and each member plays an intricate part. As the year progresses students will improve their vocal performance skills and further their musicianship by performing more difficult music. Instruction is guided by the music curriculum standards set forth by the state of Michigan.

Course Prerequisites: None

Course Length: Full year

Course Name: Exploration of Sound: American Music History

Course Description: Students will learn the history of American popular music from 1900 to the present. Students will investigate the different music and corresponding dance styles that occurred during each era being studied. Students will listen to recordings, view videos and read informational stories that depict each era's distinct and singular contribution to the American music timeline. Instruction is guided by the music curriculum standards set forth by the state of Michigan.

Course Prerequisites: None

Course Length: Semester

Course Name: Exploration of Sound: Piano Class

Course Description: Students will learn basic performance practices of the piano. This knowledge can be transferred to all keyboard instruments. Students will learn through practical application how to read and perform beginning to intermediate piano literature. Each student will be provided a keyboard station in order to perform piano literature in class individually as well as in groups. Music theory lessons that coincide with piano literature are provided. All learning materials are provided by the instructor. Instruction is guided by the music curriculum standards set forth by the state of Michigan.

Course Prerequisites: None

Course Length: Semester

Course Name: Percussion and Brass

Course Description: Percussion Ensemble is for percussionists who have had previous band experience and are interested in further developing their ability in the percussive arts. Emphasis is placed on the fundamentals of comprehensive percussion

performance (snare drum, timpani, keyboards, marching percussion, and drum set), including tonal concepts, technical skills, rehearsal skills, aural skills, and rudimentary music theory. In addition to several formal concerts, members are required to perform for various school/community performances, and sectional rehearsals. Attendance at these functions when scheduled outside of school hours is a course requirement. Members of the Percussion Ensemble combine with musicians of the Concert Band, and Marching Band to perform at large concerts. In addition, members of the Percussion Ensemble have the opportunity to participate in a variety of co-curricular music ensembles and activities.

This course also focuses on the development of ensemble skills and brass pedagogy through rigorous rehearsal and performance of major brass ensemble compositions. The ensemble skills include individualism, group participation, intonation, style, leadership, communication and professional commitment and responsibility.

Course Prerequisites: None

Course Length: Full Year

Well Being Courses

Course Name: Physical Education

Course Description: Students will engage in a variety of health-enhancing physical activities that promote a healthy and active lifestyle. In addition, students will learn the necessary skills to become lifelong participants in physical activity in order to maintain health and fitness. Areas of focus include team/field sports and personal fitness activities. This course is aligned with the K-12 Michigan Standards for Physical Education.

Course Prerequisites: None

Course Length: Semester

Course Name: Health

Course Description: Students will learn the skills and acquire the knowledge to live and maintain a healthy lifestyle through investigation and study of the five components that determine the state of well-being (physical, social, mental, emotional and spiritual health). The presentations, discussions and activities during the semester focus on the topics aligned with the Michigan Model for Health – Secondary Level.

Course Prerequisites: None

Course Length: Semester

Course Name: Nutrition and Wellness

Course Description: Students will be able to demonstrate multiple aspects of nutrition, food and fitness, and food preparation. Students will learn to use the latest Dietary Guidelines and dietary reference intakes, learn the enjoyment of food and fitness, learn to eat for health in any situation, at home or on the go and, learn food preparation skills and food science principles.

Course Prerequisites: None

Course Length: Semester

Course Name: Student Leadership

Course Description: Students will be able to demonstrate their critical and creative thinking about the role of leadership in history and today's society. Students will learn about effective communication, how to interact with diverse individuals and groups, and have an introduction into basic network-building concepts and strategic relationships. Students will learn to find their personal values and their voice. Students will be a part of The Student Leadership Challenge.

Course Prerequisites: None

Course Length: Semester

Course Name: Personal Fitness

Course Description: This course will focus on students achieving and maintaining a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, and strategies. Students will establish personal fitness goals, using principles of aerobics and core training.

Prerequisites: None

Course Length: Semester

Computer Science Courses

Course Name: Web Design

Course Description: Students will learn the languages HTML, CSS, a bootstrap framework and jQuery. By the end of this course, students will create their own live homepages to serve as portfolios of their creations. Students will explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page websites. Students will learn the foundations of user interface design, rapid prototyping and user testing, and will work together to create professional, mobile responsive websites using Angular, React, Vue.js and Node applications.

Course Prerequisites: None

Course Length: Semester

Course Name: Introduction to Programming

Course Description: Students will learn the fundamental concepts and terminology of Computer Science in Python, Ruby on Rails, HTML5, CSS3, jQuery, C#, Java, JavaScript, Frontend and Backend Development, PHP, Angular, React, Vue.js, Node and Bootstrap framework using the Sublime text editors. Students will develop skills in designing, creating games, calendars and simple computer programs in an assigned programming language. Students will explore and create projects using basic Python and Console Interaction, conditionals, looping, functions and other data structures.

Course Prerequisites: None

Course Length: Semester

Course Name: Computer Applications

Course Description: Students will learn to identify the parts and functions of personal computers. Following that knowledge, this course will cover the topics of developing hand-eye coordination by mouse usage and basic keyboard skills such as text production and use of the function keys. Students will examine modern examples of how technology is used for research and communication. Students will effectively use Microsoft Windows and Office Suite applications with hands on experience in MS Windows, Word, Excel, PowerPoint and other programs.

Course Prerequisites: None

Course Length: Semester

Course Name: AP Computer Science

Course Description: This is an introductory college-level computing course. Students will cultivate their understanding of computer science through working with data, collaborating to solve problems and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet and the global impact of computing.

Course Prerequisites: None

Course Length: Full year