
University High School Academy

Course Description Catalog

This catalog compiles course offerings and descriptions by subject area, including courses eligible for college dual-credit (OCC, UMD, OU).

Southfield Public Schools

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Michigan Merit Curriculum (MMC) and Southfield Public Schools Graduation Requirements

Southfield Public Schools' graduation requirements are aligned with the Michigan Merit Curriculum (MMC), which establishes the minimum academic requirements for students to earn a high school diploma in the State of Michigan.

While the Michigan Merit Curriculum establishes the state minimum requirements, Southfield Public Schools requires students to earn a minimum of 22 credits to graduate. Students must satisfy all applicable Michigan Merit Curriculum requirements as part of the district's 22-credit graduation requirement.

The Michigan Merit Curriculum includes requirements in the following areas:

Content Area	MMC Requirement
English Language Arts	4.0 credits
Mathematics	4.0 credits
Science	3.0 credits
Social Studies	3.0 credits
Physical Education and Health	1.0 credit
Visual, Performing, and Applied Arts	1.0 credit
World Language	2.0 credits
Online Learning Experience	Required

In addition to satisfying all applicable Michigan Merit Curriculum requirements, students must complete the additional district-required credits necessary to meet Southfield Public Schools' 22-credit graduation requirement.

Students and families are encouraged to work closely with their school counselor to ensure that course selections satisfy both Michigan Merit Curriculum requirements and Southfield Public Schools graduation requirements.

Students may be eligible for modifications to certain Michigan Merit Curriculum requirements through a Personal Curriculum, as permitted by Michigan law and Southfield Public Schools procedures.

DUAL ENROLLMENT & ONLINE LEARNING

DUAL ENROLLMENT

Dual enrollment provides an opportunity for high school students with demonstrated academic potential to enroll in selected college or university courses while completing their high school graduation requirements. Currently, Southfield Public Schools has Dual Enrollment programs with Oakland Community College, Lawrence Tech University, Wayne State University and The University of Michigan-Dearborn. To be admitted to the program, students must satisfy the Dual Enrollment admission criteria. This includes the admission requirements for the selected college/university.

The purpose of the Dual Enrollment program is to supplement and enrich students educational experience by allowing them to pursue course work which otherwise would not be available to them. Admission as a dual enrolled student is a special non-degree status. Students are expected to complete all graduation requirements mandated by their high school. Although students are admitted with a special status, they are granted full privileges of the college/university, including use of the library and recreational facilities and the opportunity to purchase student tickets to cultural and athletic events. After graduation, admission to a degree program at the college/university will be granted provided the student meets the minimum admission criteria.

ON-LINE LEARNING

Southfield Public Schools provides students with multiple options for receiving academic instruction. Internet-based, or "online" courses, are available for students throughout their high school career. The school district utilizes two types of internet-based courses.

Online courses have been found to be particularly valuable for students who are college-bound and in

need of advanced or specialized coursework. However, students who seek to improve their academic performance as gifted / talented students, or students who are seeking to engage in the district's credit recovery program, can take part in online learning.

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English Language Arts

AP Research 1-1

Course Code: 14062

Students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate. AP Seminar may also be taken as a stand-alone option. Because AP Research is an interdisciplinary course (with the potential to cover any topic of interest) and requires a multimedia presentation, it meets the MMC Visual/Applied Arts requirement.

AP Research 1-2

Course Code: 14063

Students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate. AP Seminar may also be taken as a stand-alone option. Because AP Research is an interdisciplinary course (with the potential to cover any topic of interest) and requires a multimedia presentation, it meets the MMC Visual/Applied Arts requirement.

Creative Writing

Course Code: 13035-OLT

Creative Writing is a one-semester course that is designed to get students to pursue creative writing as a vocation or as a hobby. To that purpose, it exposes them to different genres and techniques of creative writing and the key elements (such as plot and characterization in fiction) in each genre. Great creative writing doesn't come merely by reading about the craft—one also needs ideas; a process for planning, drafting and revising; and the opportunity to experiment with different forms and genres. The lessons in this course familiarize students with the basic structure and elements of different types or genres of writing.

Pre-AP English 2-1

Course Code: 10043

Pre-AP English 2 is an advanced high school course that builds on foundational skills, focusing on analyzing complex literary and informational texts to develop sophisticated reading, critical thinking, and evidence-based writing for future AP courses (like AP Lang/Lit) and college. Key areas include close reading, understanding rhetorical strategies, writing nuanced analytical and argumentative essays, incorporating textual evidence, and exploring diverse cultural perspectives, preparing students for higher-level academic discourse and standardized tests.

Pre-AP English 2-2

Course Code: 10044

Pre-AP English 2 is an advanced high school course that builds on foundational skills, focusing on analyzing complex literary and informational texts to develop sophisticated reading, critical thinking, and evidence-based writing for future AP courses (like AP Lang/Lit) and college. Key areas include close reading, understanding rhetorical strategies, writing nuanced analytical and argumentative essays, incorporating textual evidence, and exploring diverse cultural perspectives, preparing students for higher-level academic discourse and standardized tests.

Writing & Res**Course Code: 13039**

The Writing and Research course is designed to develop advanced composition and critical thinking skills, with a strong emphasis on the process of academic inquiry and formal research. Students learn to effectively gather, evaluate, synthesize, and present information using established citation standards (like MLA or APA).

Yearbook 1**Course Code: 16011**

course teaches students journalism, graphic design, and project management through the hands-on production of the school yearbook, covering photography, writing, editing, layout, advertising, and deadlines to create a historical record of school events using industry-standard software like Adobe Photoshop, eDesign. It's a project-based class focused on teamwork, technical skills, and real-world application, often requiring after-school event attendance.

Yearbook 2**Course Code: 16012**

course teaches students journalism, graphic design, and project management through the hands-on production of the school yearbook, covering photography, writing, editing, layout, advertising, and deadlines to create a historical record of school events using industry-standard software like Adobe Photoshop, eDesign. It's a project-based class focused on teamwork, technical skills, and real-world application, often requiring after-school event attendance.

Mathematics

AP Calculus 1

Course Code: 45041-OLT

AP Calculus AB is a college-level course equivalent to a first-semester calculus class, focusing on limits, derivatives, and integrals, and their real-world applications, teaching students to analyze change through graphical, numerical, analytical, and verbal representations. It builds problem-solving skills in functions, rates of change, and accumulation, preparing students for the AP exam and further STEM studies.

AP Calculus 2

Course Code: 45042-OLT

AP Calculus AB is a college-level course equivalent to a first-semester calculus class, focusing on limits, derivatives, and integrals, and their real-world applications, teaching students to analyze change through graphical, numerical, analytical, and verbal representations. It builds problem-solving skills in functions, rates of change, and accumulation, preparing students for the AP exam and further STEM studies.

AP Pre-Calculus A

Course Code: 45038

AP Precalculus is a rigorous high school math course focusing on functions (polynomial, rational, exponential, logarithmic, trigonometric) to build a deep conceptual understanding, preparing students for college STEM fields by developing skills in modeling dynamic behavior, using multiple representations (graphs, tables, equations), and applying math to real-world problems, often serving as a strong foundation for future calculus or statistics courses, notes AP Central and FLVS.

AP Pre-Calculus B

Course Code: 45039

AP Precalculus is a rigorous high school math course focusing on functions (polynomial, rational, exponential, logarithmic, trigonometric) to build a deep conceptual understanding, preparing students for college STEM fields by developing skills in modeling dynamic behavior, using multiple representations (graphs, tables, equations), and applying math to real-world problems, often serving as a strong foundation for future calculus or statistics courses, notes AP Central and FLVS.

AP Statistics 1

Course Code: 46061-OLT

AP[®] Statistics is a two-semester course that gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results of a poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real-world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP[®] Statistics prepares students for the AP[®] exam and for further study in science, sociology, medicine, engineering, political science, geography, or business. This course has been authorized by the College Board[®] to use the AP[®] designation.

AP Statistics 2

Course Code: 46062-OLT

AP[®] Statistics is a two-semester course that gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results of a poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real-world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP[®] Statistics prepares students for the AP[®] exam and for further study in science, sociology, medicine, engineering, political science, geography, or business. This course has been authorized by the College Board[®] to use the AP[®] designation.

Algebra 1 - A

Course Code: 42001-OLT

Algebra 1 v7.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. The specific standard alignment for each lesson is visible to both educators and students. In addition to the emphasis on alignment, the lessons in the new course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for students. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist students in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help students record key takeaways as they move through the tutorial. The course is also built around student engagement, with more interactive lessons and videos that work through examples and model problem-solving skills. This fresh new look and feel for the course was inspired by educator feedback. Educators were also involved in the course at the design-level, as many unit activities, worksheets, and video scripts were written by current algebra classroom teachers. Algebra 1 v7.0 reflects our commitment to standards alignment and putting the needs of educators and students first in all aspects of course design.

Algebra 1 - B

Course Code: 42002-OLT

Algebra 1 v7.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. The specific standard alignment for each lesson is visible to both educators and students. In addition to the emphasis on alignment, the lessons in the new course are designed to be shorter in length than lessons of previous versions, offering focused exploration of topics to make concepts more digestible for students. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist students in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help students record key takeaways as they move through the tutorial. The course is also built around student engagement, with more interactive lessons and videos that work through examples and model problem-solving skills. This fresh new look and feel for the course was inspired by educator feedback. Educators were also involved in the course at the design-level, as many unit activities, worksheets, and video scripts were written by current algebra classroom teachers. Algebra 1 v7.0 reflects our commitment to standards alignment and putting the needs of educators and students first in all aspects of course design.

Geometry - A

Course Code: 43021-OLT

Geometry v6.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering a focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforced connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Geometry v6.0 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

Geometry - B

Course Code: 43022-OLT

Geometry v6.0 is a completely re-designed course that offers 100% alignment to the National Standards for Mathematics. In addition to the emphasis on alignment, the new lessons in the course are designed to be shorter in length than lessons of previous versions, offering a focused exploration of topics to make concepts more digestible for learners and intentionally grouped to reinforced connections. Practice questions are included with each lesson, including technology-enhanced items and explanations to assist learners in their understanding of the concepts. New features to support student mastery include worksheets for practice and guided notes to help learners record key takeaways as they move through the tutorial. The course is built around learner engagement, with more interactive lessons, videos that work through examples and model problem-solving skills, and experiences to support multi-modal learning and sense-making. Scaffolding pieces are included throughout the course to provide learners with opportunities to build on foundational skills as well as prepare for greater success by drawing learners' attention to common misunderstandings and articulating the big ideas that underpin learning. This fresh new look and feel for the course was inspired by educator feedback. Geometry v6.0 reflects our commitment to standards alignment and putting the needs of educators and learners first in all aspects of course design.

Math Literacy (OCC)

Course Code: OCCMAT1125

This course will provide skills necessary to be successful in college level math courses such as Statistics or Quantitative Reasoning. Topics include numeracy, mathematical thinking and investigations, proportional reasoning, basic algebra concepts, linear and exponential functions and basic statistical concepts. Real-life applications, graphing calculators, spreadsheets, and internet resources are integrated throughout the course. This course is designed for non-STEM (Science, Technology, Engineering and Mathematics) students.

Pre Calc 1

Course Code: 45011-OLT

Precalculus builds on algebraic concepts to prepare students for calculus. The course begins with a review of basic algebraic concepts and moves into operations with functions, where students manipulate functions and their graphs. Precalculus also provides a detailed look at trigonometric functions, their graphs, the trigonometric identities, and the unit circle. Finally, students are introduced to polar coordinates, parametric equations, and limits.

Pre Calc 2**Course Code: 45012-OLT**

Precalculus builds on algebraic concepts to prepare students for calculus. The course begins with a review of basic algebraic concepts and moves into operations with functions, where students manipulate functions and their graphs. Precalculus also provides a detailed look at trigonometric functions, their graphs, the trigonometric identities, and the unit circle. Finally, students are introduced to polar coordinates, parametric equations, and limits.

Pre-AP Algebra 2 A**Course Code: 42008**

Pre-AP Algebra 2 builds on prior math, deeply exploring various functions (polynomial, rational, exponential, logarithmic, trig, radical) with a focus on deeper understanding, critical thinking, and mathematical modeling, preparing students for AP Calculus by emphasizing problem-solving, data analysis, and core algebraic structures through guided inquiry and real-world applications.

Pre-AP Algebra 2 B**Course Code: 42009**

Pre-AP Algebra 2 builds on prior math, deeply exploring various functions (polynomial, rational, exponential, logarithmic, trig, radical) with a focus on deeper understanding, critical thinking, and mathematical modeling, preparing students for AP Calculus by emphasizing problem-solving, data analysis, and core algebraic structures through guided inquiry and real-world applications.

Pre-AP Algebra I - 1**Course Code: 42006**

Pre-AP Algebra 1 focuses deeply on the concepts and skills that have maximum value for college and career. Therefore, a major focus of this course is on mastery of linear relationships. Linear equations and functions represent the most useful and versatile tools in the mathematician's toolbox, and they are the basic building blocks of many advanced topics in math. The course content has been streamlined to allow time and space to truly master these concepts and skills. This course creates a platform for all students to build their mathematical muscle and confidence by emphasizing these essential practices for deep mathematical learning: Building conceptual understanding, Building procedural fluency, Using and making mathematical models Crafting mathematical arguments. Pre-AP Algebra 1 asks students to actively construct mathematical knowledge alongside their peers so that students linger productively on problems, persevering through challenges and making important connections among concepts. Students will engage in authentic and useful applications of math as they engage in solving real-world problems. Finally, students will gain the tools for making, testing, refuting, and su

Pre-AP Algebra I - 2

Course Code: 42007

Pre-AP Algebra 1 focuses deeply on the concepts and skills that have maximum value for college and career. Therefore, a major focus of this course is on mastery of linear relationships. Linear equations and functions represent the most useful and versatile tools in the mathematician's toolbox, and they are the basic building blocks of many advanced topics in math. The course content has been streamlined to allow time and space to truly master these concepts and skills. This course creates a platform for all students to build their mathematical muscle and confidence by emphasizing these essential practices for deep mathematical learning: Building conceptual understanding, Building procedural fluency, Using and making mathematical models Crafting mathematical arguments. Pre-AP Algebra 1 asks students to actively construct mathematical knowledge alongside their peers so that students linger productively on problems, persevering through challenges and making important connections among concepts. Students will engage in authentic and useful applications of math as they engage in solving real-world problems. Finally, students will gain the tools for making, testing, refuting, and su

Pre-AP Geometry W/Stats 1-1

Course Code: 43040

Pre-AP Geometry with Statistics is an advanced course bridging algebra and geometry, focusing on geometric properties, transformations, and proofs while integrating essential statistics and probability for quantitative literacy, helping students build reasoning skills for future AP math courses through modeling real-world problems and making mathematical arguments.

Pre-AP Geometry W/Stats 1-2

Course Code: 43041

Pre-AP Geometry with Statistics is an advanced course bridging algebra and geometry, focusing on geometric properties, transformations, and proofs while integrating essential statistics and probability for quantitative literacy, helping students build reasoning skills for future AP math courses through modeling real-world problems and making mathematical arguments.

Statistics (OCC)

Course Code: OCCMAT1580

Organization and presentation of data; analysis of data, including mean, median, mode, range, and standard deviation; elementary probability theory using combinations and permutations; Binomial Distribution; Normal Distribution; Student Distribution; Chi-square Distribution; F-Distribution; hypothesis testing; estimation, regression and correlation, analysis of variance (ANOVA), non-parametric statistics. Introduction to statistical analysis using current technology.

Science

AP Bio 1

Course Code: 61036-OLT

To generate skills for lifelong learning, 25 percent of the lessons in Advanced Biology use student-driven, constructivist approaches for concept development. The remaining lessons employ direct-instruction approaches. In both cases, the lessons incorporate multimedia-rich, interactive resources to make learning an engaging experience. The AP® approach to advanced biology topics helps students achieve mastery of abstract concepts and their application in everyday life and in STEM-related professions. This course has been authorized by the College Board® to use the AP® designation.

AP Bio 2

Course Code: 61037-OLT

To generate skills for lifelong learning, 25 percent of the lessons in Advanced Biology use student-driven, constructivist approaches for concept development. The remaining lessons employ direct-instruction approaches. In both cases, the lessons incorporate multimedia-rich, interactive resources to make learning an engaging experience. The AP® approach to advanced biology topics helps students achieve mastery of abstract concepts and their application in everyday life and in STEM-related professions. This course has been authorized by the College Board® to use the AP® designation.

AP Environ Sci 1

Course Code: 61051-OLT

AP® Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course draws upon various disciplines, including geology, biology, environmental studies, environmental science, chemistry, and geography in order to explore a variety of environmental topics. The equivalent of an introductory college-level science course, AP® Environmental Science prepares students for the AP® exam and for further study in science, health sciences, or engineering. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, deconstruct claims, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity. Students also perform hands-on labs and projects that give them insight into the nature of science and help them understand environmental concepts, as well as how evidence can be obtained to support those concepts. This course has been authorized by the College Board® to use the AP® designation.

AP Environ Sci 2

Course Code: 61052-OLT

AP® Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course draws upon various disciplines, including geology, biology, environmental studies, environmental science, chemistry, and geography in order to explore a variety of environmental topics. The equivalent of an introductory college-level science course, AP® Environmental Science prepares students for the AP® exam and for further study in science, health sciences, or engineering. Scientific inquiry skills are embedded in the

direct instruction, wherein students learn to ask scientific questions, deconstruct claims, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity. Students also perform hands-on labs and projects that give them insight into the nature of science and help them understand environmental concepts, as well as how evidence can be obtained to support those concepts. This course has been authorized by the College Board® to use the AP® designation.

AP Physics 1

Course Code: 64026-OLT

AP Physics is a college-level science course that explores the fundamental principles governing matter, energy, motion, waves, electricity, and magnetism. Students develop problem-solving and analytical skills through hands-on labs, mathematical modeling, and real-world applications, preparing them for advanced study in science and engineering.

AP Physics 2

Course Code: 64027-OLT

AP Physics is a college-level science course that explores the fundamental principles governing matter, energy, motion, waves, electricity, and magnetism. Students develop problem-solving and analytical skills through hands-on labs, mathematical modeling, and real-world applications, preparing them for advanced study in science and engineering.

Astronomy

Course Code: 65044-OLT

Introduction to Astronomy is a one-semester course that is designed to enable students to learn the basics of astronomy. The course begins with coverage of the history of astronomy from ancient times to modern times. Students then learn to identify the movements of the Sun, Moon, planets, and stars across the sky and to describe the formation of the solar system and the role of the Sun and Moon in the solar system. The course goes on to cover the causes of seasons on Earth and why Earth can sustain life. The course culminates in a study of the stars, galaxies, and the Milky Way, various theories of cosmology, and advantages and disadvantages of space exploration. The target audience for this course is high school students. There are no required materials for this course.

Biology - A

Course Code: 61010-OLT

This inquiry and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards for high school biology. Content topics include cells, organ systems, heredity, organization of organisms, evolution, energy use in organisms, and the interdependence of ecosystems. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities. Approximately 40% of student time in this course is devoted to true lab experiences, as defined by the National Research Council (2006, p. 3). Lab materials note: Most hands-on labs employ relatively-common household materials. A few labs require specialized scientific equipment or materials, such as a microscope, slides, or biological samples. These few specialized labs are optional but provide valuable laboratory experience. School laboratories may be used for these specialized labs or

single-student Edmentum Lab Kits may be purchased from Ward's Science. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

Biology - B

Course Code: 61011-OLT

This inquiry and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards for high school biology. Content topics include cells, organ systems, heredity, organization of organisms, evolution, energy use in organisms, and the interdependence of ecosystems. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities. Approximately 40% of student time in this course is devoted to true lab experiences, as defined by the National Research Council (2006, p. 3). Lab materials note: Most hands-on labs employ relatively-common household materials. A few labs require specialized scientific equipment or materials, such as a microscope, slides, or biological samples. These few specialized labs are optional but provide valuable laboratory experience. School laboratories may be used for these specialized labs or single-student Edmentum Lab Kits may be purchased from Ward's Science. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

Concepts in Physics (OCC)

Course Code: OCCPHY1031

This is a non-mathematical introduction to basic concepts in physics and their interrelationships. These ideas will be applied to everyday phenomena, current technology, and the entire universe. A laboratory is integral to the course.

Earth Science

Course Code: 62011

AT- not offered at A & T

Environmental Science

Course Code: 65040-OLT

Environmental Science is designed to introduce students to the main concepts of environmental science. It will help students gain knowledge of the natural processes that occur in nature and understand their importance and relevance. Students will also gain awareness of some of the environmental issues and challenges we face in the world today, such as land use and management, wildlife conservation, resource and waste management, and the different kinds of pollution. Finally, students will learn about energy sources and production, sustainable development, and environmental policies.

Forensic Science 1

Course Code: 65052-OLT

Introduction to Forensic Science is designed to introduce students to the importance and limitations of forensic science and explore different career options in this field. They also learn to process a crime scene, collect and preserve evidence, and analyze biological evidence such as fingerprints, blood spatter, and DNA samples. Moreover, they learn to determine the time and cause of death in homicides and

analyze ballistic evidence and human remains in a crime scene. Finally, they learn about forensic investigative methods related to arson, computer crimes, financial crimes, frauds, and forgeries.

Human Anat. & Physiology (OCC)

Course Code: OCCBIO2630

This course will analyze the structural and functional relationships of the human body at the biochemical, cellular, tissue, organ and system level. Emphasis will be placed on the identification of the major anatomical parts and physiological activities of the integumentary, skeletal (including articulations), muscular, and nervous (including special senses) system. The laboratory component of this course involves application of the concepts presented in lecture. This natural science course is also required for many health-related fields.

Human Anat. & Physiology II(OCC)

Course Code: OCCBIO2640

Utilizing and building upon information covered in Human Anatomy and Physiology I (BIO 2630), this course will identify the major anatomical parts of the endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems of the human body and relate their structures to the physiological activities of these systems. This course will also analyze the homeostatic effects of fluids, electrolytes, acids and bases throughout the integrated human body. The laboratory component of this course involves application of the concepts presented in lecture. This natural science course is also required for most health profession and technology programs such as: dental hygiene, respiratory therapy, surgical technology and nursing.

Intro to Veterinary Science

Course Code: 65054-OLT

Introduction to Veterinary Science is designed to introduce students at the high school level to the fundamentals of veterinary science. The students will explore the history of veterinary science and the skills and requirements for a successful career in the veterinary industry. They will also explore the anatomy and physiology of animals, learn how to evaluate animal health, and determine effective treatments for infectious and noninfectious diseases in animals. Additionally, they will learn about zoonotic diseases, and the impact of toxins and poisons on animal health.

Physical Science

Course Code: 60014

AT- not offered at A & T

Physical Science - A

Course Code: 60011-OLT

This inquiry and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards associated with middle school physical science. Content topics include structure and properties of matter, chemical reactions, forces and motion, force fields, energy, and waves. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities. Approximately 40% of student time in this course is devoted to true lab

experiences, as defined by the National Research Council (2006, p. 3). (Credit Recovery versions available) *NCAA Approved*Lab materials note: All hands-on labs employ relatively common household materials. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

Physical Science - B

Course Code: 60012-OLT

This inquiry and lab-based course is designed to support modern science curriculum and teaching practices. It robustly meets NGSS learning standards associated with middle school physical science. Content topics include structure and properties of matter, chemical reactions, forces and motion, force fields, energy, and waves. Each lesson includes one or more inquiry-based activities that can be performed online within the context of the lesson. In addition, the course includes a significant number of hands-on lab activities. Approximately 40% of student time in this course is devoted to true lab experiences, as defined by the National Research Council (2006, p. 3). (Credit Recovery versions available) *NCAA Approved*Lab materials note: All hands-on labs employ relatively common household materials. Please refer to the Student Syllabus or Teacher's Guide for details on lab materials.

Physiology A

Course Code: 46090

explores the human body's structures (anatomy) and functions (physiology), focusing on how organ systems (skeletal, muscular, nervous, circulatory, etc.) work together to maintain life and homeostasis (balance), using labs, dissections, and inquiry to prepare students for health/medical careers by linking structure to function and common diseases.

Physiology B

Course Code: 46091

explores the human body's structures (anatomy) and functions (physiology), focusing on how organ systems (skeletal, muscular, nervous, circulatory, etc.) work together to maintain life and homeostasis (balance), using labs, dissections, and inquiry to prepare students for health/medical careers by linking structure to function and common diseases.

Pre-AP Biology 1

Course Code: 61021

This course helps students and teachers prioritize and focus deeply in the core areas of ecological systems, evolution, cellular systems, and genetics while actively applying science practices to construct and revise their biological knowledge. Students will make meaningful connections between the structures, processes, and interactions that exist across biological systems—from cells to ecological communities. Pre-AP Biology asks students to be active participants in analyzing real-world phenomena and to regularly collaborate with their peers in dialogue, investigations, and problem solving. Within this course, the theories of evolution and inheritance help students see the story of how life has unfolded across Earth's vast history. They provide foundational lenses from which we begin to understand and appreciate the extraordinary diversity of life as well as the unity we see across that life. This course also focuses on the complex and dynamic processes that are required to sustain Earth's biodiversity to build student understanding of the intricate relationships of interdependence between living and nonliving systems.

Pre-AP Biology 2

Course Code: 61022

This course helps students and teachers prioritize and focus deeply in the core areas of ecological systems, evolution, cellular systems, and genetics while actively applying science practices to construct and revise their biological knowledge. Students will make meaningful connections between the structures, processes, and interactions that exist across biological systems—from cells to ecological communities. Pre-AP Biology asks students to be active participants in analyzing real-world phenomena and to regularly collaborate with their peers in dialogue, investigations, and problem solving. Within this course, the theories of evolution and inheritance help students see the story of how life has unfolded across Earth's vast history. They provide foundational lenses from which we begin to understand and appreciate the extraordinary diversity of life as well as the unity we see across that life. This course also focuses on the complex and dynamic processes that are required to sustain Earth's biodiversity to build student understanding of the intricate relationships of interdependence between living and nonliving systems.

Pre-AP Chemistry 1-1

Course Code: 63070

Pre-AP Chemistry is a rigorous, college-preparatory course that builds foundational understanding of matter and energy at the molecular level, developing skills for success in AP Chemistry and beyond by focusing on scientific reasoning, mathematical application (especially algebra), analytical reading/writing, and modeling chemical phenomena. It covers core topics like atomic structure, bonding, states of matter, stoichiometry, and reactions, using hands-on labs and problem-solving to bridge macroscopic observations with particulate-level explanations.

Pre-AP Chemistry 1-2

Course Code: 63071

Pre-AP Chemistry is a rigorous, college-preparatory course that builds foundational understanding of matter and energy at the molecular level, developing skills for success in AP Chemistry and beyond by focusing on scientific reasoning, mathematical application (especially algebra), analytical reading/writing, and modeling chemical phenomena. It covers core topics like atomic structure, bonding, states of matter, stoichiometry, and reactions, using hands-on labs and problem-solving to bridge macroscopic observations with particulate-level explanations.

Social Studies

AP African American Studies A

Course Code: 77022

AP African American Studies is an interdisciplinary college-level course exploring the history, politics, literature, and culture of people of African descent, from ancient African kingdoms through the African diaspora to contemporary America, using primary sources to analyze resilience, contributions, and ongoing issues in a chronological and thematic framework. It focuses on critical thinking, source analysis, and understanding Black experiences within global contexts.

AP African American Studies B

Course Code: 77021

AP African American Studies is an interdisciplinary college-level course exploring the history, politics, literature, and culture of people of African descent, from ancient African kingdoms through the African diaspora to contemporary America, using primary sources to analyze resilience, contributions, and ongoing issues in a chronological and thematic framework. It focuses on critical thinking, source analysis, and understanding Black experiences within global contexts.

AP Amer Gov't 1

Course Code: 74015-OLT

AP American Government and Politics is a college-level high school course that examines the foundations, institutions, and processes of the U.S. political system. Students study the Constitution, branches of government, political beliefs and behaviors, public policy, and civil rights and liberties while developing analytical and argumentative skills through the study of political data and primary sources.

AP Amer Gov't 2

Course Code: 74016-OLT

AP American Government and Politics is a college-level high school course that examines the foundations, institutions, and processes of the U.S. political system. Students study the Constitution, branches of government, political beliefs and behaviors, public policy, and civil rights and liberties while developing analytical and argumentative skills through the study of political data and primary sources.

AP Gov/Comparative

Course Code: 74030-OLT

AP Government is a college-level high school course that explores the foundations, institutions, and processes of the United States political system. Students study the Constitution, branches of government, political behavior, public policy, and civil rights and liberties while developing analytical, critical thinking, and writing skills.

AP Macroeconomics

Course Code: 75060-OLT

AP® Macroeconomics is a one-semester course in which students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends

to develop performance measures and predictors of economic growth or decline. They also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the AP[®] exam and for further study in business, political science, or history. This course has been authorized by the College Board[®] to use the AP[®] designation.

AP Microeconomics

Course Code: 75065-OLT

AP[®] Macroeconomics is a one-semester course in which students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the AP[®] exam and for further study in business, political science, or history. This course has been authorized by the College Board[®] to use the AP[®] designation.

AP Psychology

Course Code: 75033-OLT

AP[®] Psychology is a one-semester course that provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development, and human aggression, altruism, intimacy, and self-reflection. They will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of an introductory college-level survey course, AP[®] Psychology prepares students for the AP[®] exam and for further studies in psychology or life sciences. This course has been authorized by the College Board[®] to use the AP[®] designation.

AP Psychology 2

Course Code: 75034-OLT

AP[®] Psychology is a one-semester course that provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development, and human aggression, altruism, intimacy, and self-reflection. They will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of an introductory college-level survey course, AP[®] Psychology prepares students for the AP[®] exam and for further studies in psychology or life sciences. This course has been authorized by the College Board[®] to use the AP[®] designation.

AP World History 1

Course Code: 73024-OLT

AP World History is a college-level social studies course that examines global civilizations, cultures, and interactions from the past to the present. Students analyze historical sources, identify patterns of change and continuity, and develop critical thinking and writing skills through comparative and thematic study of world history.

AP World History 2**Course Code: 73025-OLT**

AP World History is a college-level social studies course that examines global civilizations, cultures, and interactions from the past to the present. Students analyze historical sources, identify patterns of change and continuity, and develop critical thinking and writing skills through comparative and thematic study of world history.

Abnormal Psychology (OCC)**Course Code: OCCPSY2910**

The student will demonstrate an understanding of the major disorders in the diagnostic and statistical manual (anxiety, mood, dissociative, personality, substance abuse, atypical sexuality, organic, and schizophrenia), therapeutic techniques relating to the various disorders will be explored.

Anthropology 1**Course Code: 77051-OLT**

Introduction to Anthropology is a one-semester course that introduces students to the field of anthropology. Students will explore the evolution of anthropology as a distinct discipline; learn about anthropological terms, concepts and theories; and discuss the evolution of humans and human society and culture. Students will also learn about social institutions, such as marriage, economy, religion, and polity. The target audience for this course is high school students. There are no required materials for this course.

Foundations of Humanities (OCC)**Course Code: OCCFSH1500**

Students explore ways in which humanity has sought meaning and purpose in life, particularly as reflected in the visual, performing, and literary arts. The course examines interrelations between diverse cultural traditions and artistic expressions. It also introduces elements, concepts and terminology of the various humanistic disciplines studied.

Intro to Anthropology (UMD)**Course Code: UMDANTH101**

Anthropology emphasizes the holistic study of human beings, in both the past and the present, and this course introduces students to the four primary subfields of the discipline (sociocultural anthropology, biological anthropology, linguistic anthropology, and archaeology). of the discipline. This course shows students how the sub-fields intersect to explain human biological and cultural diversity, provides students with the ability to better understand their own culture in the context of a globalized world, and discusses the applied skills of the discipline.

Law & Order: Introduction to Leg

Course Code: 76025-OLT

From traffic laws to regulations on how the government operates, laws help provide society with order and structure. Our lives are guided and regulated by our society's legal expectations. Consumer laws help protect us from faulty goods; criminal laws help to protect society from individuals who harm others; and family law handles the arrangements and issues that arise in areas like divorce and child custody. This course focuses on the creation and application of laws in various areas of society.

Marriage & Family (OCC)

Course Code: OCCSOC2570

The student will explore basic concepts relating to marriage and families in modern society. This is an introduction to the changing perspectives of courtship, marriage, family life, and the varying sexual roles, social values, and life styles reflected in contemporary mate selection patterns.

Pre-AP World Hist & Geo 1

Course Code: 73016

The course builds students' essential skills and confidence and helps to prepare them for a range of AP history/social science coursework during high school, including AP Human Geography and AP World History. The learning model is that of a disciplinary apprenticeship, with students using the tools of the historian and geographer as sources, data, and analytical reading and writing take center stage in the classroom. In this course, students learn that history is an interrelated story of the world, history and geography are inherently dynamic, and historians and geographers are investigators intent on using the tools of their disciplines to uncover new evidence about the world and its inhabitants.

Pre-AP World Hist & Geo 2

Course Code: 73017

The course builds students' essential skills and confidence and helps to prepare them for a range of AP history/social science coursework during high school, including AP Human Geography and AP World History. The learning model is that of a disciplinary apprenticeship, with students using the tools of the historian and geographer as sources, data, and analytical reading and writing take center stage in the classroom. In this course, students learn that history is an interrelated story of the world, history and geography are inherently dynamic, and historians and geographers are investigators intent on using the tools of their disciplines to uncover new evidence about the world and its inhabitants.

Principles of Macroecon (OCC)

Course Code: OCCECO2610

This course explores macroeconomic concepts and theories including national income and employment determination, the mechanics of money, banking and credit creation, and business cycles. This information is applied to the analysis of various government spending, taxation, and monetary policies of current importance.

Sociology

Course Code: 75040-OLT

Sociology is a one-semester course, students will explore the evolution of sociology as a distinct discipline while learning about sociological concepts and processes. They will learn how the individual relates to and impacts society. Students will also learn about the influence of culture, social structure, socialization, and social change on themselves and others. The course combines a variety of content types, including lessons, activities, and discussions to engage learners as they discover sociology as a subject and as a career. There are no required materials for this course.

U.S. Govt and Politics

Course Code: 74010-OLT

U.S. Government and Politics is a course that introduces students to the foundations and operation of the American political system. Students explore the Constitution, branches of government, political processes, civil rights and liberties, and the role of citizens, building skills in critical thinking, discussion, and informed civic participation.

U.S. History - A

Course Code: 72011-OLT

US History v3.0 is a two-semester course aligned to the principles of the C3 Framework. The course promotes the examination, analysis, and evaluation of important people and events in the history of the United States of America. The course also uses investigative questions to guide the examination and analysis of events. The content of the course is designed to promote understanding of the impacts historical events had on the numerous groups of diverse people who make up the United States. Clarifying Big Ideas (CBI) Lessons appear throughout the course to model critical thinking skills and strategies. These skills and strategies are woven throughout the lessons to allow students to practice using the skills in context. Activities further promote critical thinking about historical figures and encourage learners to analyze factors that impacted the decisions these figures made to shape the growth and development of the United States. The activities have learners analyze and evaluate primary and secondary sources, and have them form opinions while using evidence to support their opinions.

U.S. History - B

Course Code: 72012-OLT

US History v3.0 is a two-semester course aligned to the principles of the C3 Framework. The course promotes the examination, analysis, and evaluation of important people and events in the history of the United States of America. The course also uses investigative questions to guide the examination and analysis of events. The content of the course is designed to promote understanding of the impacts historical events had on the numerous groups of diverse people who make up the United States. Clarifying Big Ideas (CBI) Lessons appear throughout the course to model critical thinking skills and strategies. These skills and strategies are woven throughout the lessons to allow students to practice using the skills in context. Activities further promote critical thinking about historical figures and encourage learners to analyze factors that impacted the decisions these figures made to shape the growth and development of the United States. The activities have learners analyze and evaluate primary and secondary sources, and have them form opinions while using evidence to support their opinions.

World Civ from Modern Era (OCC)

Course Code: OCC-HI1520

In this course we will trace major characteristics of human civilizations throughout the world beginning with the era of global interaction (16th century) until the present by exploring their cultural, social, ideological, economic, and political institutions. We will draw comparisons in order to illustrate the diversity and similarity among civilizations and in order to develop a global view of world systems.

World Civ to Beg of M (OCC)

Course Code: OCCHIS1510

In this course we will trace human civilizations from their origins to the era of global interaction (16th century) by exploring their cultural, social, religious, economic and political institutions. We will draw comparisons in order to illustrate the diversity and similarity among civilizations and in order to develop a global view of world systems.

World Languages

AP Spanish 1-1

Course Code: 21061-OLT

AP® Spanish Language and Culture is a two-semester course where students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they learn in extensive written and spoken exercises. The course addresses the broad themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. By the end of the course, students will have an expansive vocabulary, a solid, working knowledge of all verb forms and tenses, strong command of other language structures, and an ability to use language in many different contexts and for varied purposes. The equivalent of a college-level language course, AP® Spanish Language prepares students for the AP® exam and for further study of Spanish language, culture, or literature. The materials needed for this course include a Spanish-English, English-Spanish dictionary and microphone. This course has been authorized by the College Board® to use the AP® designation.

AP Spanish 1-2

Course Code: 21062-OLT

AP® Spanish Language and Culture is a two-semester course where students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they learn in extensive written and spoken exercises. The course addresses the broad themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. By the end of the course, students will have an expansive vocabulary, a solid, working knowledge of all verb forms and tenses, strong command of other language structures, and an ability to use language in many different contexts and for varied purposes. The equivalent of a college-level language course, AP® Spanish Language prepares students for the AP® exam and for further study of Spanish language, culture, or literature. The materials needed for this course include a Spanish-English, English-Spanish dictionary and microphone. This course has been authorized by the College Board® to use the AP® designation.

American Sign Language I (OCC)

Course Code: OCCSLI1000

This course provides an introduction to American Sign Language (ASL), including basic grammar, vocabulary, fingerspelling, and number use. Students will be expected to attain a basic proficiency in expressive and receptive ASL. American Deaf culture topics will also be introduced.

Spanish 1-1

Course Code: 21011-OLT

In Spanish 1A, students will be introduced to several common situations in which people communicate, such as exchanging names and greetings, describing people by physical and personality traits, and describing family members and aspects of social life. Students will start with basic sentence structures and grammatical tools, and they will learn to communicate by listening, speaking, reading, and writing in Spanish as they learn new vocabulary and grammar. They will also learn about some regions of the Spanish-speaking world that the central characters of each unit are visiting.

Spanish 1-2

Course Code: 21012-OLT

In Spanish 1B, students will be introduced to several common situations in which people describe how to earn, save, and manage money, modes of urban transportation, various seasons and the associated weather conditions, food, clothes, and activities. They will also describe various art forms, plays, concerts, and movies. Students will discuss health and well-being and travel and tourism. They will build on what they learned in the Spanish 1B course to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. Students will also learn about some regions of the Spanish-speaking world that the central characters of each unit are visiting. They will build on this semester's work as they advance in their Spanish studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

Spanish 2-1

Course Code: 21021-OLT

In Spanish 2A, students will be reintroduced to Spanish in common situations, beginning with describing classes, school friends, teachers, and school supplies. Students will discuss different styles of dressing, housing, and neighborhoods, and learn about relationships between family members and friends, students and teachers, and employees and employer. They will also describe daily personal routines and schedules, household chores, and family responsibilities. Finally, students will discuss different types of cuisine, dining establishments, and dining etiquette. They will build on what you learned in Spanish 1B to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. Students will also learn about some regions of the Spanish-speaking world where the central characters of each unit are visiting. They will build on this semester's work as they advance in their Spanish studies: everything that students learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

Spanish 2-2

Course Code: 21022-OLT

In Spanish 2B, students are reintroduced to Spanish in common situations, beginning with various professions and career plans for the future. They will discuss traveling to different regions and the flora and fauna found in each region and describe different types of trips, including road trips, camping, and ecotourism. They will also describe different hobbies, activities, and crafts that people enjoy. Finally, students will discuss about different medical specialists, including dentists and veterinarians, and describe symptoms related to illness and injury. They will build on what they have learned in the Spanish 2A course to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. Students will also learn about some regions of the Spanish-speaking world where the central characters of each unit are visiting. They will build on this semester's work as they advance in their Spanish studies: everything that students learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

Spanish 3-1

Course Code: 21031-OLT

In Spanish 3A, students will be reintroduced to Spanish in common situations, beginning with various daily routines, describing friends and family, childhood memories and activities, and childhood hopes and aspirations. They will discuss and describe art, such as paintings and sculptures, and literature, such

as novels and novellas, and give reactions and form opinions about art and literature. Students will also understand the process of selecting and applying to a university, aspirations at the university, and dealing with leaving home and moving into a dormitory. Further, students will describe university life and expectations from the university experience. They will explore the dynamics and challenges of multiethnic and developing societies, environmental and social issues, causes and possible resolutions, and learning about unfamiliar countries using technology. Finally, they will discuss current events reported in the media, different types of classified and other types of advertisement in the media (both print and online), the sections and supplements of a newspaper or magazine, and various jobs available in the media. Students will build on what they learned in Spanish 2 to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. They will also learn about some regions of the Spanish-speaking world where the central characters of each unit are visiting. Students will build on this semester's work as they advance in their Spanish studies: everything that students learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

Spanish 3-2

Course Code: 21032-OLT

In Spanish 3B, students will be reintroduced to Spanish in a variety of situations, beginning with multiculturalism, bilingualism, cultural influences on traditions, customs, food, and social experiences, and legends and folklore from different cultures. Students will discuss and describe genres of music, poetry, drama, and short stories, and proverbs from different cultures. They will also explore how geographical features affect the weather, and how the geography and weather affect the clothing, food, and livelihoods of the local population. Students will also understand the history of Venezuela and how the Spanish conquerors and indigenous people shaped the culture of the country, and they will learn about the South American independence movement, including some significant freedom fighters and their struggles to win independence. They will also discuss religions practiced in Argentina, the cultural icons of the country and how they compare to cultural icons from other countries, sports and activities in Argentina, some national symbols, such as the gauchos, and idioms and sayings from Argentina. Finally, students will discuss types of wildlife and natural and agricultural resources found in Costa Rica, the human resources of the country that help overcome economic and natural disasters, and how to write formal and informal letters to share experiences. They will build on what they learned in Spanish 3A to communicate by listening, speaking, reading, and writing in Spanish as they internalize new vocabulary and grammar. Students will also learn about some regions of the Spanish-speaking world where the central characters of each unit are visiting. They will build on this semester's work as they advance in their Spanish studies: everything that they learn about a language and the cultures in which it is spoken will serve as a foundation for further learning.

Spanish 4-1

Course Code: 21041-OLT

This is an intensive course of the most advanced grammatical concepts in the Spanish language. Listening, reading, writing, and speaking skills will improve as the themes, topics and language become more complex. Listening skills are developed through complex listening activities, incorporating a variety of media tools, such as songs, video clips, news reports, and increased use of the target language in the classroom. Theme-based, culturally authentic reading selections are presented for increasing comprehension while practicing new vocabulary and grammar. Writing practice includes essays with specific criteria for content, structure, and organization with a focus on advanced language skills.

Speaking skills will further develop through frequent oral presentations based on current events and selected readings. Cultural knowledge and understanding continues to be a focal point as part of the language learning experience.

Spanish 4-2

Course Code: 21042-OLT

This is an intensive course of the most advanced grammatical concepts in the Spanish language. Listening, reading, writing, and speaking skills will improve as the themes, topics and language become more complex. Listening skills are developed through complex listening activities, incorporating a variety of media tools, such as songs, video clips, news reports, and increased use of the target language in the classroom. Theme-based, culturally authentic reading selections are presented for increasing comprehension while practicing new vocabulary and grammar. Writing practice includes essays with specific criteria for content, structure, and organization with a focus on advanced language skills. Speaking skills will further develop through frequent oral presentations based on current events and selected readings. Cultural knowledge and understanding continues to be a focal point as part of the language learning experience.

Spanish Exploratory A

Course Code: 48070

An Exploratory Spanish course provides a fun, short introduction to the Spanish language and Hispanic cultures, focusing on basic vocabulary, greetings, common phrases, and cultural insights through interactive games, music, and simple conversations, aiming to build foundational listening, speaking, reading, and writing skills without the pressure of a full high school course, making future language learning easier.

Spanish Exploratory B

Course Code: 48071

An Exploratory Spanish course provides a fun, short introduction to the Spanish language and Hispanic cultures, focusing on basic vocabulary, greetings, common phrases, and cultural insights through interactive games, music, and simple conversations, aiming to build foundational listening, speaking, reading, and writing skills without the pressure of a full high school course, making future language learning easier.

Business, Marketing & Entrepreneurship

Accounting

Course Code: 03010-OLT

Accounting is a two-semester course that empowers high school students with the essential skills they need to understand accounting basics. Topics covered include the fundamentals of bookkeeping, financial statements, accounting based on the type of firm, specialized accounting tasks, and skills, regulations, and ethics for careers in accounting. Engaging and relevant, this course helps students with an accounting career orientation, and students in need of an overview of essential accounting principles.

Career Explorations

Course Code: 83032-OLT

Career Explorations is a one-semester course intended as a practical, hands-on guide to enable students to explore career opportunities in different career clusters and pathways. In addition to exploring career options, students will develop an academic and career plan, learn essential skills for success in college and a variety of careers, and prepare to enter the job market. Career Explorations also helps students build confidence as they prepare to embark on their chosen careers.

Entrepreneurship A/B

Course Code: 04001-OLT

Entrepreneurship is a two-semester course that is based on Career Technical Education (CTE) standards designed to help students understand the roles and attributes of an entrepreneur, marketing and its components, selling process, and operations management. In this course, students will explore entrepreneurship and the economy, marketing fundamentals, managing customers, production and operations management, money, and business law and taxation.

Financial Literacy

Course Code: 3022

Financial literacy course teaches essential money management skills, covering budgeting, saving, debt & credit, banking, investing, insurance, taxes, and financial planning for goals like education or retirement, empowering individuals to make sound financial decisions for long-term well-being.

International Business

Course Code: 03018-OLT

International Business is a one-semester course that covers the fundamentals of international business, international business transactions, and how a business can go global. In this course, students will learn about international business and how globalization has impacted it. They will learn about global trade and investment policies, and politics and laws that impact international business. Students will also learn about the International Monetary Fund, foreign exchange and global capital markets, key world economies, and economic cooperation across countries. The course also covers strategies to enter the international market along with factors like strategic planning, marketing, global sourcing, and logistics, human resource management, and employability skills. Students also learn about the cultural elements involved in conducting international business.

Interpersonal Com (OCC)

Course Code: OCC-CO1290

This course is designed to provide the student with information and skills to improve interpersonal communication in personal and professional settings. Areas of emphasis include self-confidence training, active listening, language usage, nonverbal communication, assertiveness training, group dynamics and oral presentations.

Introduction to Business (OCC)

Course Code: OCCBUS1100

This introductory business class covers the fundamentals of business including free market economics, ethics/social responsibility, entrepreneurship, management, human resource management, marketing, supply chain, finance, information systems, accounting, and government's role in business. All topics are approached in the context of a global business environment.

Introduction to Entrepreneurship

Course Code: 04002-OLT

An Introduction to Entrepreneurship course teaches you the mindset, skills, and steps to turn an idea into a business, covering opportunity identification, market research, business planning (marketing, finance, operations), pitching, and securing resources, using hands-on methods like case studies, guest speakers, and creating a real business model to build confidence and practical know-how for startups, small businesses, or even intrapreneurship

Personal & Family Finance

Course Code: 86000-OLT

Personal Finance is a one-semester course that teaches financial literacy skills to help students plan and achieve career and personal goals. This course focuses on consumer economics, financial services, and personal financial management. Students learn how to budget, spend, invest, and make every day financial decisions. The course also provides an exploration of careers in personal finance and consumer services.

Personal Finance

Course Code: 86001-OLT

Personal Finance is a one-semester course that teaches financial literacy skills to help students plan and achieve career and personal goals. This course focuses on consumer economics, financial services, and personal financial management. Students learn how to budget, spend, invest, and make every day financial decisions. The course also provides an exploration of careers in personal finance and consumer services.

Sports & Entertainment Marketing

Course Code: 05057-OLT

Sports Entertainment and Marketing is a one-semester course is intended to help students gain an insight into the field of sports, entertainment, and recreation marketing. This course covers fundamental concepts in sports, entertainment, and recreation marketing. It also covers essential skills related to

advertising, sponsorship, and marketing campaigns. In addition, the course covers crucial workplace skills, such as teamwork and leadership skills.

Visual Arts, Media & Design

AP Studio Art 1

Course Code: 54040

In this course students will learn to use 2-D design principles to organize an image on a picture plane in order to communicate content and demonstrate mastery through any two-dimensional medium or process, such as graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Students will also develop technical skills and familiarize themselves with the functions of visual elements as they create an individual portfolio of work for evaluation at the end of the course.

AP Studio Art 2

Course Code: 54041

In this course students will learn to use 2-D design principles to organize an image on a picture plane in order to communicate content and demonstrate mastery through any two-dimensional medium or process, such as graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Students will also develop technical skills and familiarize themselves with the functions of visual elements as they create an individual portfolio of work for evaluation at the end of the course.

Art Appreciation

Course Code: 55060-OLT

Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course's primary focus, students finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas. Coverage of each artistic movement highlights historical context and introduces students to key artists who represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art. This course is built to state standards and informed by the Consortium of National Arts Education Associations standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art.

Art Foundations 2

Course Code: 54012

Art Foundations is an introductory survey of visual arts, teaching fundamental concepts like the elements (line, shape, color) and principles (balance, contrast) of design, color theory, and art vocabulary through hands-on projects in drawing, painting, printmaking, and sculpture, while also exploring art history, cultural contexts, and career paths, serving as a prerequisite for advanced art classes.

Design & Media 1

Course Code: 54006

In this course students will examine the fundamentals of two-dimensional design through the study of art history, art criticism, aesthetics and art production. The exploration of various art media and process will be implemented. All content will meet the requirements outlined in the Michigan Department of Education, Arts Education High School Content Standards and Benchmarks.

Design & Media 2**Course Code: 54007**

In this course students will examine the fundamentals of two-dimensional design through the study of art history, art criticism, aesthetics and art production. The exploration of various art media and process will be implemented. All content will meet the requirements outlined in the Michigan Department of Education, Arts Education High School Content Standards and Benchmarks.

Digital Photograph**Course Code: 54020-OLT**

Digital Photography 1 focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students use basic techniques of composition and camera functions to build a personal portfolio of images, capturing people, landscapes, close-ups, and action photographs.

Digital Photography 1**Course Code: 54021-OLT**

Digital Photography focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students use basic techniques of composition and camera functions to build a personal portfolio of images, capturing people, landscapes, close-ups, and action photographs.

Digital Photography 2**Course Code: 54022-OLT**

Digital Photography focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students use basic techniques of composition and camera functions to build a personal portfolio of images, capturing people, landscapes, close-ups, and action photographs.

Game Design**Course Code: 54004-OLT**

teaches you to create interactive entertainment, blending storytelling, art, and tech by covering game mechanics, level design, narrative, prototyping, and user experience (UX), using industry tools for programming, asset creation, and project management to build everything from mobile games to VR simulations, culminating in a portfolio of real-world projects.

Game Development

Course Code: 54005-OLT

Game Development is a one-semester course that teaches students the ins and outs of game development to prepare them for a career in the field. This course covers the history of video games, character development, mobile game design, user interface design, social gaming, and the principles of development design and management methodologies. While fun and highly engaging, the course focuses on laying a strong foundation for a career in game development.

Graphic Design and Illustration

Course Code: 55022-OLT

Graphic Design and Illustration is a two-semester course that allows students to develop an understanding of the industry with a focus on topics such as the history of graphic design, types of digital images, graphic design tools, storing and manipulating images, design elements and principles, copyright laws, and printing images. The course is based on Career Technical Education (CTE) standards designed to help students develop the technical knowledge and skills needed for success in careers in the graphic design industry.

Music

Concert Band 1

Course Code: 57066

Concert Band involves developing instrumental skills (tone, technique, intonation, rhythm) and musicianship (theory, history, expression) through performing diverse repertoire (classical, jazz, marches) in an ensemble, culminating in public concerts, focusing on both individual growth and collective achievement, often requiring prior experience and after-school commitment

Concert Band Advanced A

Course Code: 57001

Concert Band involves developing instrumental skills (tone, technique, intonation, rhythm) and musicianship (theory, history, expression) through performing diverse repertoire (classical, jazz, marches) in an ensemble, culminating in public concerts, focusing on both individual growth and collective achievement, often requiring prior experience and after-school commitment

Concert Band Advanced B

Course Code: 57002

Concert Band involves developing instrumental skills (tone, technique, intonation, rhythm) and musicianship (theory, history, expression) through performing diverse repertoire (classical, jazz, marches) in an ensemble, culminating in public concerts, focusing on both individual growth and collective achievement, often requiring prior experience and after-school commitment

Music Appreciation

Course Code: 56047-OLT

Music Appreciation is a one-semester course that provides your students with opportunities to explore the arts from both an informational and career-oriented perspective. In Music Appreciation, students will explore the history and evolution of music, learn the elements of music and musical notations, and the contributions of popular music artists and composers. A variety of lessons, activities, and discussions will help to develop an awareness and appreciation of music that will develop not only critical thinking skills, but life enriching skills as well. There are no required materials for this course.

Orchestra 1

Course Code: 57011

a performance-based class where students develop instrumental skills (violin, viola, cello, bass) and musical literacy by playing varied repertoire, focusing on technique (bowing, intonation, rhythm, tone), theory (reading music, terms, history), and ensemble coordination (blending, following a conductor), with required after-school rehearsals and concerts, from beginner to advanced levels. Students learn music interpretation, history, and performance etiquette, often participating in competitive festivals and applying skills in various settings.

Orchestra 2

Course Code: 57012

a performance-based class where students develop instrumental skills (violin, viola, cello, bass) and musical literacy by playing varied repertoire, focusing on technique (bowing, intonation, rhythm, tone), theory (reading music, terms, history), and ensemble coordination (blending, following a conductor), with required after-school rehearsals and concerts, from beginner to advanced levels. Students learn music interpretation, history, and performance etiquette, often participating in competitive festivals and applying skills in various settings.

Performing Arts

Forensics

Course Code: 51030

The course teaches students to apply the sciences to criminal investigations, covering topics like DNA analysis, fingerprinting, blood spatter, ballistics, toxicology, hair/fiber analysis, and arson, often through hands-on labs using mock crime scenes to develop critical thinking and evidence collection skills for careers in law enforcement or science.

Intro to Theater (OCC)

Course Code: OCCTHE1561

This course will introduce students to the elements and structure of the theatre through analysis of written dramas and performance reviews. Students will read representative classic and contemporary plays and study the role of theatre in society and how theatre generates value as a humanistic discipline. The course will expose students to the techniques used by actors, directors and designers in contemporary American theatre. Students may be required to attend performances outside of class.

Physical Education & Health

Health

Course Code: 31030-OLT

This course is based on a rigorously researched scope and sequence that covers the essential concepts of health. Students are provided with a variety of health concepts and demonstrate their understanding of those concepts through problem solving. The five units explore a wide variety of topics that include nutrition and fitness, disease and injury, development and sexuality, substance abuse, and mental and community health.

Life Skills

Course Code: 7003

This course is designed to equip high school students with the essential practical knowledge and skills needed to successfully navigate the challenges of adulthood, independent living, and career readiness. Through a mix of instruction, hands-on projects, and real-world scenarios, students will develop competencies in key areas that support personal well-being, financial independence, and healthy relationships. The goal is to foster self-sufficiency, confidence, and resilience, empowering students to make informed decisions and thrive after graduation.

Life Skills 1

Course Code: 96061

This course is designed to equip high school students with the essential practical knowledge and skills needed to successfully navigate the challenges of adulthood, independent living, and career readiness. Through a mix of instruction, hands-on projects, and real-world scenarios, students will develop competencies in key areas that support personal well-being, financial independence, and healthy relationships. The goal is to foster self-sufficiency, confidence, and resilience, empowering students to make informed decisions and thrive after graduation.

Life Skills 2

Course Code: 96062

This course is designed to equip high school students with the essential practical knowledge and skills needed to successfully navigate the challenges of adulthood, independent living, and career readiness. Through a mix of instruction, hands-on projects, and real-world scenarios, students will develop competencies in key areas that support personal well-being, financial independence, and healthy relationships. The goal is to foster self-sufficiency, confidence, and resilience, empowering students to make informed decisions and thrive after graduation.

PE

Course Code: 37017-OLT

This course's three units include Getting Active, Improving Performance, and Lifestyle. Unit activities elevate students' self-awareness of their health and well-being while examining topics such as diet and mental health and exploring websites and other resources. In addition to being effective as a stand-alone course, the components can be easily integrated into other health and wellness courses.

Technology, Engineering & Skilled Trades

Intro to Machine Tool (OCC)

Course Code: OCC-MT1100

This course exposes students to the practical application of machine hand tools through text materials and performance objectives. Beginning with simple operations, the student will perform layout, cutting, drilling, filing, and tapping objectives. The student will also perform simple operations on the lathe, band saw and the milling machine. Blueprint reading exercises will be performed to develop students' spatial aptitude and visual acuity. Safety is greatly emphasized and practiced daily.

Intro to Robotics (OCC)

Course Code: OCC-RO1500

This course is an overview of robotic and automated systems technology. The student will be introduced to basic manufacturing techniques, robot terminology, different types of automation, safety, basic robotic programming, interfacing robotic communications, automated work cells, and robotic applications. Robot operations and programming fundamentals will be applied by the students.

Methods in Engin Research

Course Code: 47050

Operations Research is mathematical instruction using Decision Science and engineering tools to solve problems. The class analyzes a series of real-world problems making mathematics more relevant. The deterministic nature of the class includes linear programming, critical path method, facility location problems, transportation problems, and multi-criterion decision making. These concepts help to develop and further the student's mathematical and problem solving level. The student will also gain knowledge in using Microsoft Excel to solve these problems. Concepts from Pre-Algebra thru Calculus are discussed. The course fulfills the 4th-year math graduation requirement.

Robotics II/Programming SEM 1

Course Code: 83074

This is a project-based course designed to introduce second year Robotics students to the study of robotics. Students will be introduced to the process of developing, building and modification and autonomous programming of robots. Students will use their creativity to solve problems. Students will test their ideas in real world situations. Students will use statistics and data analysis and algebraic expressions to model and describe real life problems. Students will research the effectiveness and practicality of their ideas. The students will learn simple C programming. The students will also reinforce Algebra and Geometry concepts by analyzing and measuring robot performance and structure. The course also reinforces key Physics concepts such as gears, forces, velocity, acceleration and friction. The course ultimately provides students with the information and skills to solve robotic based problems. Participation in OCCRA is required. The STEM series fulfills the Fine/Applied Arts and 4th year math graduation requirement.

Web Design (OCC)

Course Code: OCCIS1400

This course focuses on the fundamentals of web site content development. Students will be introduced to the fundamental HTML5 structure of a webpage and then proceed to creating pages using a professional web editing tool. Students will create a fully functional original website using the web design editing tool that has elements such as images, hyperlinks, cascading style sheets for formatting, tables and integration of certain multimedia elements such as sound files and videos. Discussions will include accessibility of the design, overall site maintenance and publishing using FTP technologies. Students taking this course should have working knowledge of Windows and basic knowledge of the Internet.

Welding Metallurgy (OCC)

Course Code: OCC-MS1200

This course is designed to teach the micro structural aspects of all welding processes. This course will explore the metallurgy of welding, the types of steel and their manufacture, certain welding methods and processes, temperature changes during welding, and the contribution of alloying elements in steel to welded metal behavior. Shop floor welded pieces will be examined metallographically to see the structures discussed in the classroom as well as tensile and hardness testing to demonstrate welding integrity.

Health Sciences

Erl Child Nutr/Hlth/Sfty (OCC)

Course Code: OCCECE1505

This course focuses on best practices in nutrition, health, and safety for young children, including equipment safety, communicable diseases, nutrition programs, health issues and community resources. Emphasis is placed on establishing and maintaining a healthy, safe early childhood education program, planning nutritious meals and snacks for young children, and educating young children on health, safety and nutrition.

Medical Terminology (OCC)

Course Code: OCCMDA1103

Medical Terminology is intended for students entering health professions. This is an introductory course with special emphasis on the fundamentals of speaking, writing, and understanding medical language as used in the health care industry. Spelling and definition of medical terminology will utilize a word-root, prefix, suffix structure system. Application of medical terms as they relate to human anatomy, body systems, disease process, and the health care setting will be provided.

Seminar & Academic Support

Integrated Seminar 1

Course Code: 76009

The integrated seminar course is taken in grades 9-12. In this course students engage in the following: Financial Literacy Series, College Readiness Series and time for additional academic support. A rotating class schedule is developed each school year; therefore, all students receive the same instruction. FINANCIAL LITERACY Units of Study: Your career and how your career choice and lifestyle affect your financial plan.: Employment testing and how you spend today may affect your tomorrow.; Financing your college education.

Integrated Seminar 2

Course Code: 76010

The integrated seminar course is taken in grades 9-12. In this course students engage in the following: Financial Literacy Series, College Readiness Series and time for additional academic support. A rotating class schedule is developed each school year; therefore, all students receive the same instruction. FINANCIAL LITERACY Units of Study: Your career and how your career choice and lifestyle affect your financial plan.: Employment testing and how you spend today may affect your tomorrow.; Financing your college education.

Junior Integrated Seminar 1

Course Code: 76007

Seminar is a class hour for the homebase teacher to check in on students, advise them on improvement and allow for greater familiarity with the student. The hour is also used for enrichment and additional instruction or assistance in other classes.

Junior Integrated Seminar 2

Course Code: 76008

Seminar is a class hour for the homebase teacher to check in on students, advise them on improvement and allow for greater familiarity with the student. The hour is also used for enrichment and additional instruction or assistance in other classes.

Sophomore Integrated Seminar 1

Course Code: 76005

Seminar is a class hour for the homebase teacher to check in on students, advise them on improvement and allow for greater familiarity with the student. The hour is also used for enrichment and additional instruction or assistance in other classes.

Sophomore Integrated Seminar 2

Course Code: 76006

Seminar is a class hour for the homebase teacher to check in on students, advise them on improvement and allow for greater familiarity with the student. The hour is also used for enrichment and additional instruction or assistance in other classes.

Study Skills

Course Code: M826804

This course helps high school students develop essential study habits, time management, and organizational skills while preparing for the college application process. Students learn effective note-taking, test preparation, goal setting, resume building, essay writing, and how to research and apply to colleges, supporting a successful transition to postsecondary education.