



Indiana Agriculture & Technology School

2019-20 COURSE CATALOG

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HIGH SCHOOL GRADUATION REQUIREMENTS

CORE 40 DIPLOMA

The Core 40 Diploma is Indiana's standard High school diploma that provides students with the necessary background for success in college and the workforce. To earn the Indiana Core 40 diploma, earn the following 40 credits and complete the following requirements

Course	Requirements
English	8 Credits
	English 9 2 Credits
	English 10 2 Credits
	English 11 2 Credits
	English 12 2 Credits
Math	6 Credits
	Algebra I 2 Credits
	Geometry 2 Credits
	Algebra II 2 Credits
Science	6 Credits
	Biology I 2 Credits
	Chemistry I, Physics I, or Integrated Chemistry Physics 2 Credits
	Core40 Science Course 2 Credits
Social Studies	6 Credits
	World History, or Geography and History of the World 2 Credits
	US History 2 Credits
	US Government 1 Credits
	Economics 1 Credits
P.E. & Health	3 Credits
	P.E. 2 Credits
	Health and Wellness 2 Credits
Directed Electives	5 Credits
	World Languages
	Fine Arts
	Career/Technical
Electives	6 Credits

CORE 40 HONORS DIPLOMA

The Core 40 with Academic Honors Diploma is a special diploma that a student may earn by meeting specific criteria established by the Indiana State Board of Education. The student must complete all the requirements for a Core 40 Diploma, earn a minimum of 47 credits, and must also:

- Earn at least 6 math credits while in high school including 2 credits beyond Algebra II (total of 8 math credits),
- Earn 6 or 8 credits in world languages,
Students may meet this requirement by earning 6 credits in a single world language or 4 credits in each of two different world languages.
- Earn 2 Core 40 fine arts credits
- Earn a grade of “C-” or above in courses that will count toward the diploma,
- Have a grade point average of “B” (3.0) or above,

- Complete one of the following additional requirements, (also apply to “A” in Technical Honors Diploma below)
 - A. Earn 4 credits in two or more Advanced Placement courses and complete the corresponding AP exams, or
 - B. Earn 6 verifiable transcript college credits in dual credit courses from the Indiana priority course list, or
 - C. Earn 4 credits in International Baccalaureate courses and complete the corresponding IB exams
 - D. Earn a combined score of 1250 or higher on the SAT (Math, Critical Reading and Writing) and a minimum
 - E. score of 560 on the math and a 590 on the evidenced based reading and writing section.
 - F. Earn a composite score of 26 or higher on the ACT and complete the written section.
 - G. Earn two of the following:
 - A minimum of 3 verifiable transcript college credits from the priority course list
 - Earn 2 credits in Advanced Placement courses and complete the corresponding AP exam(s)
 - Earn 2 credits in International Baccalaureate standard level courses and complete the corresponding IB exams

CORE 40 TECHNICAL HONORS

The Core 40 with Technical Honors Diploma is a special diploma that a student may earn by meeting specific criteria established by the Indiana State Board of Education. The student must complete all of the requirements for a Core 40 Diploma, earn a minimum of 47 credits, and must also:

- Earn a grade of “C-” or above in courses that will count toward the diploma
- Have a grade point average of “B” (3.0) or above
- Earn a minimum of 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and earn one (1) of the following:
 - Pathway designated industry-based certification or credential; or
 - Pathway dual credits from the lists of priority courses resulting in 6 transcript college credits

- Complete one (1) of the following:
 - A. Any of the options listed under additional requirements for the Core 40 with Academic Honors Diploma (see above).
 - B. Earn the following minimum scores on WorkKeys:
 - (i) Reading for information, Level 6;
 - (ii) Applied Mathematics, Level 6; and
 - (iii) Locating information, Level 5.
 - C. Earn the following minimum score on Accuplacer:
 - (i) Writing, 80;
 - (ii) Reading, 90; and
 - (iii) Math, 75.
 - D. Earn the following minimum score on Compass:
 - (i) Algebra, 66;
 - (ii) Writing, 70; and
 - (iii) Reading, 80

GENERAL DIPLOMA

To graduate with less than a Core 40 diploma in 2016 or later, the following formal opt-out process must be completed:

- A. The student, the student's parent/guardian, and the student's counselor meet to discuss the student's progress.
- B. The student's Graduation Plan (including four year course plan) is reviewed.
- C. The student's parent/guardian determines whether the student will achieve greater educational benefits by completing the general curriculum or the Core 40 curriculum.
- D. If the decision is made to opt-out of Core 40, the student is required to complete the course and credit requirements for a general diploma and the career/academic sequence the student will pursue is determined.

Course	Requirements
English	8 Credits
	English 9 2 Credits
	English 10 2 Credits
	English 11 2 Credits
	English 12 2 Credits
Math	4 Credits
	Algebra I 2 Credits
	Geometry 2 Credits
Science	4 Credits
	Biology I 2 Credits
	Any Science Course 2 Credits
Social Studies	4 Credits
	US History 2 Credits
	US Government 1 Credits
	Any Social Studies Course 1 Credits
P.E. & Health	3 Credits
	P.E. 2 Credits Health and Wellness 2 Credits
College & Career Pathways	6 Credits Selecting electives in a deliberate manner to take full advantage of college and career exploration and Preparation opportunities
Flex Credits	5 Credits Flex Credits must come from one of the following: • Additional elective courses in a College and Career Pathway • Courses involving workplace learning such as Cooperative Education or Internship courses • High school/college dual credit courses • Additional courses in English, Social Studies, Math, Science, World Languages or Fine Arts
Electives	6 Credits

GRADUATION QUALIFYING EXAMS

To receive a diploma in the state of Indiana, students must demonstrate mastery of the academic standards assessed by the Graduation Qualifying Exam (GQE). For students in the class of 2019, the GQE requires students to take and pass the Grade 10 ISTEP+ in English/Language Arts and Mathematics. Indiana students are also required to participate in the ISTEP Science assessment, but the Science assessment is not part of the graduation exam requirement.

Indiana's GQE/ISTEP+ examination graduation requirement can be met in three ways:

1. Pass the GQE ISTEP+ Grade 10 in Math and English for the graduating classes of 2019 and beyond; or
2. Fulfill the requirements for the GQE "Evidence-based" Waiver, or
3. Fulfill the requirements for a GQE "Work-readiness" Waiver

GQE "Evidence-based" Waiver

A student who does not achieve a passing score on the GQE may be eligible to graduate if the student does all the following:

1. Takes the graduation examination in each subject area in which the student did not achieve a passing score at least one time every school year after the school year in which the student first took the GQE.
2. Completes required remediation opportunities provided to the student by Carmel High School.
3. Maintains a school attendance rate of at least ninety-five percent (95%). (Excused absences are not counted against a student's attendance rate.)
4. Maintains at least a "C" average in the courses specifically required for graduation by rule of the Indiana Board of Education.
5. Satisfies all state and local graduation requirements.
6. Obtains a written recommendation from a teacher in each subject area in which the student has not achieved a passing score on the GQE. The written recommendation must be supported by documentation that the academic standards have been met, either through other tests or classroom work, and must be agreed upon by the principal.

GQE "Work Readiness" Waiver

A student who does not achieve a passing score on the GQE may be eligible to graduate if the student does all the following:

1. Takes the GQE in each subject area in which the student did not achieve a passing score at least one time every school year after the school year in which the student first takes the GQE.
2. Completes required remediation opportunities provided to the student by Carmel High School.
3. Maintains a school attendance rate of at least ninety-five percent (95%). (Excused absences are not counted against a student's attendance rate.)
4. Maintains at least a "C" average in the courses specifically required for graduation by rule of the Indiana Board of Education.
5. Satisfies all state and local graduation requirements.
6. Completes all the following:
 - a. the course and credit requirements for a general diploma, including the career academic sequence;
 - b. a workforce readiness assessment; and
 - c. complete at least one industry certification from the state board's approved industry certification list, which must be updated annually with recommendations from the department of workforce development established by IC 22-4.1-2-1

AGRICULTURE CURRICULUM

AGRICULTURE PATHWAY

Students who participate in the IATS Agriculture Pathway will be exposed to careers in modern agriculture that include biology, life sciences, environmental management, food and nutrition, human health, and engineering. The program is designed to offer career pathways through partnerships with agribusiness and corporations, offering career opportunities after graduation. Beginning in the 7th grade, students will participate in activities that expose them to many of the programs career pathways. At 8th grade and onward students will take Intro to Agriculture and diving indepth to their own pathways.



AGRICULTURE COURSES

Agribusiness Management

Sem#_5002

Agribusiness Management provides foundation concepts in agricultural business. It is a two-semester course that introduces students to the principles of business organization and management from a local and global perspective, with the utilization of technology. Concepts covered in the course include; accounting and record keeping, business planning and management, food and fiber, forms of business, finance, management, sales and marketing, careers, leadership development. Students will demonstrate principles and techniques for planning, development, application and management of agribusiness systems through a supervised agriculture experience (work-based learning) programs.

Animal Science

Sem#_5008

Animal Science is a two-semester program that provides students with an overview of the field of animal science. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. All areas that the student's study can be applied to both large and small animals. Topics to be addressed include anatomy and physiology, genetics, reproduction; nutrition, careers in animal science, common diseases and parasites, social and political issues related to the industry, and management practices for the care and maintenance of animals.

Food Science

Sem#_5102

Food Science is a two-semester course that provides students with an overview of food science and the role it plays in the securing of a safe, nutritious, and adequate food supply. A project-based approach is utilized in this course, along with laboratory, team building, and problem-solving activities to enhance student learning. Students are introduced to the following areas of horticulture science: food processing, food chemistry and physics, nutrition, food microbiology, preservation, packaging and labeling, food commodities, food regulations, issues and careers in the food science industry.

Introduction to Agriculture, Foods and Natural Resources

Sem#_5056

Introduction to Agriculture, Food and Natural Resources is a two-semester course that is highly recommended as a prerequisite to and a foundation for all other agricultural classes. The nature of this course is to provide students with an

introduction to the fundamentals of agricultural science and business. Topics to be covered include animal science, plant and soil science, food science, horticultural science, agricultural business management, landscape management, natural resources, agriculture power, structure, and technology, careers in agriculture, leadership, and supervised agricultural experience. An activity and project-based approach is used along with team building to enhance the effectiveness of the student learning activities.

Natural Resources

Sem#_5180

Natural Resources is a two-semester course that provides students with a background in environmental science and conservation. Course work includes hands-on learning activities that encourage students to investigate areas of environmental concern. Students are introduced to the following areas of natural resources: soils, the water cycle, air quality, outdoor recreation, forestry, minerals, interrelationships between humans and natural systems, wetlands, wildlife, safety, careers, leadership, and supervised agricultural experience programs.

Plant and Soil Science

Sem#_5170

Plant and Soil Science a two semester course that provides students with opportunities to participate in a variety of activities including laboratory and field work. Coursework includes hands-on learning activities that encourage students to investigate areas of plant and soil science. Students are introduced to the following areas of plant and soil science: plant growth, reproduction and propagation, photosynthesis and respiration, diseases and pests of plants and their management, biotechnology, the basic components and types of soil, soil tillage, and conservation.

Supervised Agricultural Experience (SAE)

Sem#_5228

Supervised Agricultural Experience (SAE) is designed to provide students with opportunities to gain experience in the agriculture field(s) in which they are interested. Students should experience and apply what is learned in the classroom, laboratory, and training site to real-life situations. Students work closely with their agricultural science and business teacher(s), parents, and/or employers to get the most out of their SAE program. This course should be offered each semester as well as during the summer session. SAE may be offered as a Cooperative Education Program. Curriculum content and competencies should be varied so that school year and summer session experiences are not duplicated. The course may be offered on an independent study basis.

Exploring Agricultural Science and Business (MS)

Sem#_0496

The Agricultural Science and Business curriculum for middle level students follows the state standards of the Fundamentals of Agricultural Science and Business course. There is flexibility in content due to the length of the course offered locally. The primary objective is to introduce students to the dynamic industry of agriculture while gaining an awareness of the importance, impact, and diversity of careers in agricultural science and business. The content provides a hands-on exploratory, science-based approach to Agri science as well as providing a broad-based coverage of horticulture, animal science, environmental science, biotechnology, agricultural economics, plant and soil science, and agricultural science and agribusiness tools and equipment.

TECHNOLOGY CURRICULUM

TECHNOLOGY PATHWAY



TECHNOLOGY

Computer Applications: Office® 2016

This full-year course introduces students to the features and functionality of the most widely used productivity software in the world: Microsoft® Office®. Through video instruction, interactive skill demonstrations, and numerous hands-on practice assignments, students learn to develop, edit and share Office 2016 documents for both personal and professional use. By the end of this course, students will have developed basic proficiency in the most common tools and features of the Microsoft Office suite of applications: Word®, Excel®, PowerPoint®, and Outlook®.

Digital Applications and Responsibility

Sem#_4528

This one-semester course provides students with a comprehensive introduction to online learning, including how to work independently, stay safe, and develop effective study habits in virtual learning environments. Featuring direct-instruction videos, interactive tasks, authentic projects, and rigorous assessments, the course prepares students for high school by providing in-depth instruction and practice in important study skills such as time management, effective notetaking, test preparation, and collaborating effectively online. By the end of the course, students will understand what it takes to be successful online learners and responsible digital citizens.

Introduction to Computer Science

Sem#_4803

This course introduces students to the essential technical and professional skills required in the field of Information Technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT.

Microsoft® Office® Specialist

This two-semester course introduces students to the features and functionality of Microsoft® Office® 2010 while preparing them for the beginning, intermediate, and advanced levels of the Microsoft User Specialist (MOS) certification program. Through video instruction, interactive skills demonstrations, practice assignments, and unit-level assessments, students become proficient in Microsoft Word®, Excel®, PowerPoint®, Outlook®, and Access®. By the end of the course, students are prepared to demonstrate their skills by obtaining one or more MOS certifications.

Projects in Audio Engineering**

This introductory, mini course teaches the four main steps of professional audio engineering: recording, editing, mixing, and mastering. Through a series of Audacity® software projects, students learn tones and waveforms, recording studios and formats, Musical Instrument Digital Interface (MIDI) and Digital Audio Workstations (DAWs), syncing audio, and many other

topics relating to the field of audio engineering. Activities include echo and reverb effects; encoding and exporting audio; mastering audio files and mixing samples to create a new track; equalizing, compressing, and normalizing audio files; and adding fading and crossfading.

Projects in Game Design**

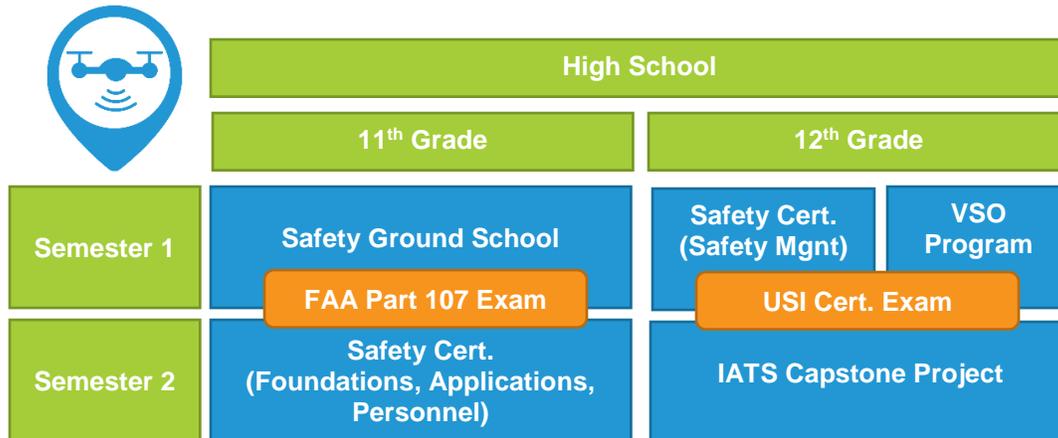
Utilizing the Multimedia Fusion software program, this mini course allows students to build a solid foundation in the fundamentals of game design and development. Students create an impressive portfolio of interactive, engaging games such as a classic two-player Ping-Pong game, a block-breaking action game, and a maze game with moving obstacles. Students learn the language of events, conditions, and actions; game objects that track scores, lives, time, and more; and automated, random, and user-controlled movement. Topics include libraries, game sounds, and game-design concepts including objects, layers and frames, cursors and crosshairs, pixels and coordinates, calculations, title and end screens, and looping animations.

Introduction to Coding

Intro to Coding covers a basic introduction to the principles of programming, including algorithms and logic. Students engage in hands-on programming tasks in the Python programming language as they write and test their own code using the approaches real programmers use in the field. Students will program with variables, functions and arguments, and lists and loops, providing a solid foundation for more advanced study as well as practical skills they can use immediately.

IATS UAS (DRONE) CERTIFICATION PROGRAM

IATS offers students the opportunity to follow a career in UAS. Through rigorous curriculum that includes learning the history, applications, safety standards, and recorded flight time, students will have the opportunity to earn their FFA part 107 License needed for commercial drone flying.



sUAS Safety Ground School

Students will prepare to take and pass the FAA Part 107 Exam, required to fly drones for hire. This curriculum incorporates safety best practices while providing students the knowledge and tools necessary to obtain their Remote Pilot Certificate

sUAS Safety Certification Program

Designed to set a safety inspired foundation for any UAS operation. This comprehensive four course program has been evaluated and recommended for 12 College credits through American Council on Education (ACE). This program establishes a safety case for complex operations for the FAA and prepares all participants to be responsible remote pilots ready to lead in the UAS industry.

Visual Line of Sight System Operations

Also known as VSO provides practical knowledge required for safe and professional UAS operations. VSO analyzes Phases of Flight, Site Survey, Airspace Analysis, Standard Operating Procedures, Emergency Response, Post Flight Processes, and more. VSO combines flight training and practical education to create a curriculum that averages 155 hours of content and instruction.

IATS Capstone Project

Students will work with local businesses that use UAS technology to identify a need for drone use. They will work with the business to identify a problem, plan flight and data collection, analyse their findings, and present their research to the business and school officials.

HIGH SCHOOL CURRICULUM

ENGLISH/LANGUAGE ARTS

English 9

Sem#_1002

This freshman-year English course engages students in literary analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including Homer's the Odyssey, Shakespeare's Romeo and Juliet, and Richard Connell's "The Most Dangerous Game." They will also study short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

English 10

Sem#_1004

Focused on application, this sophomore English course reinforces literary analysis and twenty-first century skills with superb pieces of literature and literary nonfiction, application e-resources, and educational interactives. Each thematic unit focuses on specific literary analysis skills and allows students to apply them to a range of genres and text structures. As these unit's meld modeling and application, they also expand on training in media literacy, twenty first century career skills, and the essentials of grammar and vocabulary. Under the guidance of the eWriting software, students also compose descriptive, persuasive, expository, literary analysis, research, narrative, and compare-contrast essays.

English 11

Sem#_1006

This junior-year English course invites students to delve into American literature from early American Indian voices through contemporary works. Students engage in literary analysis and inferential evaluation of great texts as the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students master comprehension and literary analysis strategies. Interwoven in the lessons across two semesters are tasks that encourage students to strengthen their oral language skills and produce creative, coherent writing. Students read a range of short but complex texts, including works by Ralph Waldo Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

English 12

Sem#_1008

This senior-level English course offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the modern period. With interactive introductions and historical contexts, this full-year course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors, including Chaucer, William Shakespeare, Queen Elizabeth I, Elizabeth Barrett Browning, and Virginia Woolf. Adding an extra dimension to the British literary experience, this course also exposes students to world literature, including works from India, Europe, China, and Spain.

Language Arts Lab I

Sem#_1010

This course is one of two intervention courses designed to support the development of strategic reading and writing skills. These courses use a thematic and contemporary approach, including high interest topics to motivate students and expose them to effective instructional principles using diverse content area and real-world texts. Both courses offer an engaging technology-based interface that inspires and challenges students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning.

Language Arts Lab II

Sem#_1010

Offering high-interest topics to motivate students who are reading two to three levels below grade, this course works in conjunction with Literacy & Comprehension I to use a thematic and contemporary approach to expose students to effective instructional principles using diverse content area and real-world texts. Each of these reading intervention courses offers an engaging, technology-based interface that inspires and challenges high school and middle school students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting,

recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning.

Expository Writing

Sem#_1094

This elective English course is designed to develop critical reading and writing skills while preparing high school students to meet the demands of college-level work. While students will explore some critical reading skills in fiction, poetry, and drama the focus of this course will be on expository and persuasive texts and the analytical reading skills that are necessary for college success. Students will read a range of short but complex texts, including works by Walt Whitman, Abraham Lincoln, Cesar Chavez, Martin Luther King Jr., Langston Hughes, Julia Alvarez, Edna St. Vincent Millay, and Gary Soto.

Speech

Sem#_1076

Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, this course offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students enrolled in this one-semester course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication. The course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches.

Contemporary Literature

Sem#_1054

The Classic Novels mini courses give students the opportunity to fully explore a large work of fiction or to be introduced to a celebrated author. Designed to stand alone or to be inserted into an existing Edgenuity course, each mini-course guides student through the work with lectures, web activities, journals, and homework/practice. Students study the following novels: 1984, A Midsummer Night's Dream, Call of the Wild, Dr. Jekyll and Mr. Hyde, Heart of Darkness, Jane Eyre, Macbeth, Mrs. Dalloway, Portrait of the Artist, Robinson Crusoe, The House of Seven Gables, The Red Badge of Courage, and The Three Musketeers along with the following author studies: Jorge Luis Borges and Flannery O'Connor.

MATHEMATICS

Math 10

Sem#_2531

The Mathematics standards for Math 10 are made up of 7 strands: Linear Equations and Inequalities; Functions; Data Analysis, Statistics, and Probability; Number Sense, Expressions, and Computation; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions. Math 10 is a two-semester course designed to reinforce and elevate the Algebra 1 and 7th and 8th grade geometry knowledge and skills necessary for students to successfully complete high school mathematics courses beyond Algebra 1 and essentials for passing the state's graduation qualifying exam in mathematics. Enrollment will be contingent upon recommendation of the Algebra I or Integrated Math I teacher based on diagnostic results of performance in Algebra I and/or mathematics competency assessments. The standards for this course are aligned to the state standards that students need to master for success with the state's graduation qualifying exam in mathematics and the next level math courses. Emphasis is on a variety of instructional methods designed to meet each student's needs and delivered through competency-based units with frequent pre and post assessment data analyzed to drive instructional design and delivery.

Algebra I

Sem#_2520

This full-year course focuses on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. This course builds on the foundation set in middle grades by deepening students' understanding of linear and exponential functions and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically. Quantitative reasoning is a common thread throughout the course as students use algebra to represent quantities and the relationships among those quantities in a variety of ways. Standards of mathematical practice and process are embedded throughout the course, as students make sense of problem situations, solve novel problems, reason abstractly, and think critically.

Geometry**Sem#_2532**

This course formalizes what students learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs and geometric constructions. Then students extend what they have learned to other essential triangle concepts, including similarity, right-triangle trigonometry, and the laws of sines and cosines. Moving on to other shapes, students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two-dimensional objects. Students then make important connections between geometry and algebra, including special triangles, slopes of parallel and perpendicular lines, and parabolas in the coordinate plane, before delving into an in-depth investigation of the geometry of circles. The course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.

Algebra II**Sem#_2522**

This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. The course begins with a review of linear and quadratic functions to solidify a foundation for learning these new functions. Students make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies among the operations and field properties of real numbers and those of complex numbers and algebraic expressions. Mathematical practices and habits of mind are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.

Pre-Calculus**Sem#_2564**

With an emphasis on function families and their representations, Precalculus is a thoughtful introduction to advanced studies leading to calculus. The course briefly reviews linear equations, inequalities, and systems and moves purposefully into the study of functions. Students then discover the nature of graphs and deepen their understanding of polynomial, rational, exponential, and logarithmic functions. Scaffolding rigorous content with clear instruction, the course leads students through an advanced study of trigonometric functions, matrices, and vectors. The course concludes with a short study of probability and statistics.

Trigonometry**Sem#_2566**

In this one-semester course, students use their geometry and algebra skills to begin their study of trigonometry. Students will be required to express understanding using qualitative, quantitative, algebraic, and graphing skills. This course begins with a quick overview of right-triangle relationships before introducing trigonometric functions and their applications. Students explore angles and radian measures, circular trigonometry, and the unit circle. Students extend their understanding to trigonometric graphs, including the effects of translations and the inverses of trigonometric functions. This leads to the laws of sines and cosines, followed by an in-depth exploration of trigonometric identities and applications. This course ends with an introduction to the polar coordinate system, complex numbers, and DeMoivre's theorem.

Applied Algebra I**Sem#_2520A**

Broadening and extending the mathematical knowledge and skills acquired in Algebra I, the primary purpose of this course is to use mathematics as a tool to model real-world phenomena students may encounter daily, such as finance and exponential models. Engaging lessons cover financial topics, including growth, smart money, saving, and installment-loan models. Prior mathematical knowledge is expanded, and new knowledge and techniques are developed through real-world application of useful mathematical concepts.

Business Math**Sem#_4512**

Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

Probability and Statistics

Sem#_2546

This full-year high school course provides an alternative math credit for students who may not wish to pursue more advanced mathematics courses such as Algebra II and Pre-Calculus. The first half of the course begins with an in-depth study of probability and an exploration of sampling and comparing populations and closes with units on data distributions and data analysis. In the second half of the course, students create and analyze scatterplots and study two-way tables and normal distributions. Finally, students apply probability to topics such as conditional probability, combinations and permutations, and sets.

SCIENCE

Biology I

Sem#_3024

This compelling two-semester course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. This is a yearlong course that encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology. This course includes both hands-on wet labs and virtual lab options.

Chemistry I

Sem#_3064

This rigorous, full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes eighteen virtual laboratory experiments that encourage higher-order thinking applications, with wet lab options if preferred. The components of this course include chemistry and its methods, the composition and properties of matter, changes and interactions of matter, factors affecting the interactions of matter, electrochemistry, organic chemistry, biochemistry, nuclear chemistry, mathematical applications, and applications of chemistry in the real world.

Physics I

Sem#_3084

This full-year course acquaints students with topics in classical and modern physics. The course emphasizes conceptual understanding of basic physics principles, including Newtonian mechanics, energy, thermodynamics, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students solve mathematical problems, reason abstractly, and learn to think critically about the physical world. The course also includes interactive virtual labs and hands-on lab options, in which students ask questions and create hypotheses.

Integrated Chemistry-Physics

Sem#_3108

This full-year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses. Hands-on wet lab options are also available.

Earth and Space Science I

Sem#_3044

Students enrolled in this dynamic course explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing Earth. Earth Science is a two-semester course that provides a solid foundation for understanding the physical characteristics that make the planet Earth unique and examines how these characteristics differ among the planets of our solar system.

Environmental Science

Sem#_3010

Environmental science is a captivating and rapidly expanding field, and this two-semester course offers compelling lessons that cover many aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and

societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the semester.

SOCIAL STUDIES

Geography and History of the World

Sem#_1570

Designed to introduce students to the study of geography, this course helps students master important concepts in physical and human geography. Comprehensive and organized by region, this two-semester middle school course helps students understand the Earth's physical and human diversity. Students analyze population and settlement patterns and evaluate the ways that human activities modify the physical environment. While studying humans around the world, students compare development, standards of living, systems of government, and economic factors across the globe. In addition, students gain a rich understanding of global cultures and the historical factors that have shaped the world around them. All units in the course are parallel and include studies in physical and human geography, ancient cultures, regional studies, and modern issues.

World History and Civilization

Sem#_1548

This yearlong course examines the major events and turning points of world history from the Enlightenment to the present. Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the Americas, and then explore the economic, political, and social revolutions that have transformed human history. This rigorous study of modern history examines recurring themes, such as social history, democratic government, and the relationship between history and the arts, allowing students to draw connections between the past and the present, across cultures, and among multiple perspectives. Students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.

United States History

Sem#_1542

U.S. History I is a yearlong course that dynamically explores the people, places, and events that shaped early United States history. This course stretches from the Era of Exploration through the Industrial Revolution, leading students through a careful examination of the defining moments that shaped the nation of today. Students begin by exploring the colonization of the New World and examining the foundations of colonial society. As they study the early history of the United States, students will learn critical-thinking skills by examining the constitutional foundations of U.S. government. Recurring themes such as territorial expansion, the rise of industrialization, and the significance of slavery will be examined in the context of how these issues contributed to the Civil War and Reconstruction.

Global Economics

Sem#_4558

Global Economics is a business course that provides students with an understanding of their role as consumers and producers in domestic and global economies. This course enables students to understand how the economic system operates while comprehending their role in that system. Students deal with public policy, international economics, microeconomics, and macroeconomics in comparing economic systems and using selected economic measures.

Economics

Sem#_1514

Available as either a semester or a full year, this course invites students to broaden their understanding of how economic concepts apply to their everyday lives—including microeconomic and macroeconomic theory and the characteristics of mixed-market economies, the role of government in a free-enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical-thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data displays and write routinely and responsively in tasks and assignments that are based on scenarios, texts, activities, and examples. In more extensive, process-based writing lessons, students write full-length essays in informative and argumentative formats.

United States Government

Sem#_1540

This semester-long course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. After a rigorous review of

the Constitution and its amendments, students investigate the development and extension of civil rights and liberties. Lessons also introduce influential Supreme Court decisions to demonstrate the impact and importance of constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process and culminates in an examination of public policy and the roles of citizens and organizations in promoting policy changes. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions. Students also sharpen their writing skills in shorter tasks and assignments and practice outlining and drafting skills by writing full informative and argumentative essays

WORLD LANGUAGE

Spanish I

Sem# _2120

Students begin their introduction to high school Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

Spanish II

Sem# _2122

High school students continue their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major Spanish-speaking areas in Europe and the Americas, and assessments.

Spanish III

Sem# _2124

In this expanding engagement with Spanish, high school students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in Spanish and respond orally or in writing to these works. Continuing the pattern and building on what students encountered in the first two years, each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

French I

Sem# _2020

Students in high school begin their introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

French II

Sem# _2022

Students continue their introduction to French in this second year, high school language course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major French speaking areas across the globe, and assessments.

French III

Sem# _2024

In this expanding engagement with French, high school students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in French and respond orally or in writing to these works. Continuing the pattern and building on what students encountered in the first two years, each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and the Americas.

Chinese I**Sem#_2000**

High school students begin their introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

Chinese II**Sem#_2002**

Students in high school continue their introduction to Chinese in this second-year course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

German I**Sem#_2040**

High school students begin their introduction to German with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

German II**Sem#_2042**

Students continue their introduction to high school German in this second-year course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

Latin I**Sem#_2080**

High school students begin their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

Latin II**Sem#_2082**

Students continue their introduction to high school Latin by continuing to cover the fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, a notable ancient myth in Latin, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

HONORS COURSES

Algebra I Honors

This full-year honors course introduces students to linear, exponential, and quadratic functions by interpreting, analyzing, comparing, and contrasting functions that are represented numerically, tabularly, graphically, and algebraically. Technology is utilized within some lessons to further support students in identifying key features as well as displaying images of the functions. The course builds upon the basic concepts of functions to include transformations of linear and non-linear functions. Students deepen their understanding of quantitative reasoning, piecewise functions, and quadratic functions through performance tasks. The additional performance-based skills allow the honors students to apply more of the concepts taught in the course. The course concludes with students analyzing data through displays and statistical analysis.

Geometry Honors

The course begins by exploring the foundational concepts of Euclidean Geometry in which students learn the terminology of geometry, measuring, proving theorems, and constructing figures. Students then expand on their knowledge of transformations and complete an assignment on identifying point symmetry as well as completing a performance task on tessellations. The course continues with an in-depth look at triangles where students prove theorems, relating congruency and similarity in terms of transformations, and connecting right triangles relationships to trigonometry. Students study set theory and apply probability through theoretical and experimental probability, two-way tables, and combinations and permutations. With lessons pertaining to quadrilaterals, students can identify the various figures based on their key features. Within the circles units, students identify angles, radii, and chords, perform a performance-based task on tangents, and then compute the circumference and area of various circles. Then students study parabolas, ellipses and hyperbolas before modeling and computing two- and three-dimensional figures.

Algebra II Honors

The course begins with a review of concepts that will assist students throughout the course, such as literal equations, problem solving, and word problems. Students then progress to a unit on functions where students compute operations of functions, compose of functions, and study inverses of functions. To build on their algebraic skills, students learn about complex numbers and apply them to quadratic functions via completing the square and quadratic formula methods. Next, students solve linear systems and apply their knowledge of the concept to three-by-three systems. An in-depth study on polynomial operations and functions allow students build their knowledge of polynomials algebraically and graphically. In the second semester, students study nonlinear functions. Students solve and graph rational and radical functions whereas the exponential and logarithmic functions focus on the key features and transformations of the functions. Expected value and normal distribution concepts expand and deepen students' knowledge of probability and statistics. Students also cover trigonometric functions and periodic phenomena.

Pre-Calculus Honors

This full-year advanced math course starts with a unit on the nature of functions and complex numbers before moving into matrices, systems, and linear programming. Students then return to functions with a focus on graphing a variety of function types; this unit includes a performance task on production schemes. Students explore rational functions in depth and then conclude the first semester with right triangle and circular trigonometry. In the second half of the course, students synthesize what they have learned to graph and solve trigonometric functions. They also study vectors, conics and analytic geometry, statistics and probability, mathematical modeling, and sequences and series.

English 9 Honors

This freshman honors English course invites students to explore a variety of diverse and complex texts organized into thematic units. Students will engage in literary analysis and inferential evaluation of great texts, both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, and examine and critique how authors develop ideas in a variety of genres. Interwoven throughout the lessons are activities that encourage students to strengthen their oral language skills, research and critically analyze sources of information, and produce clear, coherent writing. In addition to activities offered to students in core courses, honors students are given additional opportunities to create and to participate

in project-based learning activities, including writing a Shakespearian sonnet and creating an original interpretation of a Shakespearian play. Honors students will read a range of classic texts, including Homer's *The Odyssey*, Shakespeare's *Romeo and Juliet*, Jack London's "To Build a Fire" and Richard Connell's "The Most Dangerous Game." Students will also read Sue Macy's full length nonfiction work *Wheels of Change: How Women Rode the Bicycle to Freedom (With a Few Flat Tires Along the Way)*, and will study a variety of short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

English 10 Honors

Focused on application, this sophomore honors English course invites students to explore a variety of diverse and complex world literature texts organized into thematic units. Students will engage in literary analysis and inferential evaluation of classic and contemporary works of fiction, poetry, drama, and literary nonfiction. English 10 honors students will master comprehension, use evidence to conduct in-depth literary analysis, and examine and critique how authors develop ideas in a variety of genres. Interwoven throughout the lessons are activities that encourage students to strengthen their oral language skills, develop 21st century learning skills, and produce clear, coherent writing. Honors students will read a range of classic texts, including Jonathan Swift's *Gulliver's Travels*, Sophocles *Antigone*, and William Shakespeare's *Julius Caesar*. In addition to longer, full length works, students will also study a variety of short but complex texts, including Ishmael Beah's memoir *A Long Way Gone: Memoirs of a Boy Soldier*, Chinua Achebe's "Marriage Is a Private Affair", and a variety of other readings by great authors, including Amy Tan, Elie Wiesel, and Virginia Woolf. Throughout the course are countless opportunities for students to strengthen their writing in shorter journal entries, and in longer writing assignments that provide the guidance of the eWriting software.

English 11 Honors

This junior-year honors English course invites students to delve into American literature from early American Indian voices through contemporary works. Students will engage in literary analysis and inferential evaluation of great texts, including the full length novel *The Awakening* by Kate Chopin. While critically reading fiction, poetry, drama, and expository nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, and examine and critique how authors develop ideas in a variety of genres. Interwoven throughout the lessons are activities that encourage students to strengthen their oral language skills, research and critically analyze sources of information, and produce clear, coherent writing. To round out the course, students will read a range of short but complex texts, including Henry David Thoreau's essay "Civil Disobedience," Floyd Dell's drama *King Arthur's Socks*, and works by Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

English 12 Honors

This senior-year honors English course invites students to delve into British literature, from ancient texts such as the epic of *Beowulf* through contemporary works. Students will engage in a variety of rigorous lessons with a focus on academic inquiry, literary analysis, and inferential evaluation. While critically reading fiction, poetry, drama, and expository nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, examine and critique how authors develop ideas in a variety of genres, and synthesize ideas across multiple texts. In addition to activities offered to students in core courses, honors students are given additional opportunities to create and participate in project-based learning activities, including creating a time travel brochure and an original interpretation of William Shakespeare's *The Tragedy of Hamlet*. Honors students will read a range of classic texts, including Robert Louis Stevenson's *The Strange Case of Dr. Jekyll and Mr. Hyde*, "Politics and the English Language" by George Orwell, and William Shakespeare's *The Tragedy of Hamlet*. In addition to full length works, students will read a variety of excerpts, including readings from *Lord of the Rings: The Fellowship of the Ring*, *The Smithsonian's History of America in 101 Objects*, and Chaucer's *The Canterbury Tales*, as well as a variety of short fiction, speeches, and poetry.

Biology Honors

This compelling full-year course engages students in a rigorous honors-level curriculum that emphasizes the study of life and its real-world applications. This course examines biological concepts in more depth than general biology and provides

a solid foundation for collegiate-level coursework. Course components include biochemistry, cellular structures and functions, genetics and heredity, bioengineering, evolution, structures and functions of the human body, and ecology. Throughout the course, students participate in a variety of interactive and hands-on laboratory activities that enhance concept knowledge and develop scientific process skills, including scientific research and technical writing.

Chemistry Honors

This rigorous full-year course provides students with an engaging honors-level curriculum that emphasizes mathematical problem solving and practical applications of chemistry. Topics are examined in greater detail than general chemistry in order to prepare students for college-level coursework. Course components include atomic theory and structure, chemical bonding, states and changes of matter, chemical and redox reactions, stoichiometry, the gas laws, solutions, acids and bases, and nuclear and organic chemistry. Throughout the course, students participate in a variety of interactive and hands-on laboratory activities that enhance concept knowledge and develop scientific process skills, including scientific research and technical writing.

Physics Honors

This rigorous full-year course provides students with an engaging honors-level curriculum that emphasizes abstract reasoning and applications of physics concepts to real-world scenarios. Topics are examined in greater detail than general physics and provide a solid foundation for collegiate-level coursework. Course components include one- and two-dimensional motion, momentum, energy and thermodynamics, harmonic motion, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students participate in a variety of interactive and hands-on laboratory activities that enhance concept knowledge and develop scientific process skills, including scientific research and technical writing.

Economics Honors

From creating graphs to reach equilibrium to learning to manage a bank account, students will take part in a more rigorous semester long study of the principles and processes of economics in the American system. Students begin with an introduction of basic economic concepts then move on to an in-depth study of microeconomic principles. Students showcase their understanding of supply, demand, and economic choices by completing a case study on starting a business. Students then turn to macroeconomic concepts, government policies, and entrepreneurship. With this foundation, students create a proposal for public policies and programs in a small developing nation. Students continue their study of Economics by examining global economic concepts such as trade barriers and agreements. This Honors course concludes with a unit on personal finance. Students will learn more about topics such as taxation, financial institutions, credit, and money management. Students extend their knowledge of personal financial planning by creating a successful budget. Throughout the course, economic theory is introduced, demonstrated, and reinforced through real-life scenarios and examples. In assignments and project-based lessons, students learn to apply critical thinking skills while making practical economic choices.

United States Government Honors

From the origins of democracy through our nation's public policies, students will take part in a more rigorous semester long study of the principles and procedures of the United States' government. Students begin by taking an in-depth look at the creation of the Constitution and analyze the Amendments contained therein. Supreme Court cases that have challenged what our constitutional rights are and their lasting impact is the next topic covered in the course. Students then study the structure and duties of our government, including writing an informative essay about a federal agency. Students then explore the duties of an American citizen and finally examine the various public policies our government is responsible for. From writing about the purpose of government to analyzing landmark Supreme Court decisions, students are better equipped to understand how the federal, state, and local governments work as well as how citizens should engage with each other in today's society. Throughout this Honors course, students continuously analyze primary and secondary sources, including political cartoons, essays, and judicial opinions. Projects such as creating a political cartoon and taking part in a debate about voter ID laws encourage students to perform throughout the course at a higher level.

ADVANCED PLACEMENT

AP Calculus AB

Sem#_2562

This college-level, yearlong course prepares students for the Advanced Placement (AP) Calculus AB Exam. Major topics of study in this full-year course include a review of pre-calculus, limits, derivatives, definite integrals, mathematical modeling of differential equations, and the applications of these concepts. Emphasis is placed on the use of technology to solve problems and draw conclusions. The course utilizes a multi-representative approach to calculus with concepts and problems expressed numerically, graphically, verbally, and analytically.

AP English Language and Composition

Sem#_1056

This college-level course prepares students for the AP® English Language and Composition Exam while exploring and analyzing a variety of rhetorical contexts. This is a fast-paced, upper level course designed for highly motivated students. Multiple opportunities are provided to enhance test-taking skills through critical reading, writing, classroom assignments, and discussion activities. AP English Language and Composition practice assessments and essays will be given throughout the course as well. This course provides students an opportunity to increase knowledge concerning prose of many styles and genres, including essays, journalistic writing, political writing, science writing, nature writing, autobiographies/biographies, diaries, speeches, history writing, and critical writing. Throughout the course, there is an intense focus on writing and revising expository, analytical, and argumentative essays to prepare students for a broad range of writing purposes.

AP English Literature and Composition

Sem#_1058

English Literature and Composition is designed to be a college/ university-level course. This course equips students to critically analyze all forms of literature in order to comment insightfully about an author's or genre's use of style or literary device. Students will also interpret meaning based on form; examine the trademark characteristics of literary genres and periods; and critique literary works through expository, analytical, and argumentative essays. As students consider styles and devices, they will apply them to their creative writing. In addition to exposing students to college-level English course work, this course prepares them for the AP® English Literature and Composition Exam.

AP Environmental Science

Sem#_3012

Environmental Science is a laboratory- and field-based course designed to provide students with the content and skills needed to understand the various interrelationships in the natural world, to identify and analyze environmental problems, and to propose and examine solutions to these problems. Since this is an online course, the laboratory- and field-based activities will be completed virtually and via experiments that students can easily perform at home with common materials. The course is intended to be the equivalent of a one-semester, college-level ecology course, which is taught over a full year in high school. The course encompasses human population dynamics, interrelationships in nature, energy flow, resources, environmental quality, human impact on environmental systems, and environmental law.

AP French Language and Culture

Sem#_2032

French Language and Culture is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communicative skills. The course prepares students for the AP® French Language and Culture Exam. It uses as its foundation the three modes of communication (interpersonal, interpretive, and presentational) as defined in the Standards for Foreign Language Learning in the Twenty-First Century. The course is designed as an immersion experience requiring the use of French exclusively. The online learning coach only uses French to communicate with students. In addition, all the reading, listening, speaking, and writing is in French. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. The course contains a forum where students share their opinions and comments about various topics and comment on other students' posts. The course makes great use of the Internet for updated and current material.

AP Human Geography

Sem#_1572

Human Geography is a college-level course designed to prepare students for the AP® Human Geography Exam. The goal of the course is to provide students with a geographic perspective through which to view the world. Through a combination of direct instruction, documentary videos, and online readings, students will explore geographic concepts, theories, and

models; human environment interactions; and interactions among human systems. Topics covered include population, culture, political organization of space, agricultural land use, industrialization, and urban land use. Students will demonstrate their understanding and acquisition of skills through essays, document-based questions, student collaborative activities, and practice AP exams.

AP Psychology

Sem#_1558

Psychology will introduce students to the systematic study of the behavior and mental processes of human means and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major fields within psychology. Students also learn about the methods psychologists use in their science and practice. The major aim of this course is to provide each student with a learning experience equivalent to that obtained in most introductory college psychology courses. In addition, this course has been designed to help students successfully achieve a passing score on the AP® Psychology exam.

AP Spanish Language and Culture

Sem#_2132

Spanish Language and Culture is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communication skills. The course prepares students for the AP® Spanish Language and Culture Exam. It uses as its foundation the three modes of communication (interpersonal, interpretive, and presentational) as defined in the Standards for Foreign Language Learning in the Twenty-First Century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. In addition, students participate in a forum where they are able to share their opinions and comments about various topics and comment on other students' posts. The course also makes great use of the Internet for updated and current material.

AP United States History

Sem#_1562

This course surveys the history of the United States from the settlement of the New World to modern times and prepares students for the AP® United States History Exam. The course emphasizes themes such as national identity, economic transformation, immigration, politics, international relations, geography, and social and cultural change. Students learn to assess historical materials, weigh the evidence and interpretations presented in historical scholarship, and analyze and express historical understanding in writing.

AP World History

Sem#_1576

This advanced study of world history combines historical thinking skills with the in-depth exploration of major course themes such as the interaction between humans and the environment; development and interaction of cultures; state-building, expansion, and interaction of economic systems; and more. Students engage in reading, writing, and discussion as they trace history from before the Common Era to the present.

AP United States Government & Politics

Sem#_1560

This one-semester college-level course is designed to prepare students for the AP United States Government and Politics exam. Students will study the Constitutional underpinnings and structure of the United States government, issues of politics and political parties, and topics in civil rights and public policy, demonstrating their understanding and acquisition of skills through written work, project-based activities, and practice exams.

ELECTIVES

Introduction to 2D & 3D Art

Sem#_4000

Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, this one-semester course provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.

Art History**Sem#_4024**

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this one-semester course cover topics including early medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth-century art in Europe; sixteenth-century art in Italy; the master artists; High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; eighteenth-and nineteenth-century art in Europe and the Americas; and modern art in Europe and the Americas.

Health & Wellness**Sem#_3506**

Encouraging students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others, this course is a one-semester course that provides students with comprehensive information they can use to develop healthy attitudes and behavior patterns. Designed for high school students, this informative and engaging course encourages students to recognize that they have the power to choose healthy behaviors to reduce risks.

Physical Education I & II**Sem_3542**

Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this course equips high school students with the skills they need to achieve lifetime fitness. Throughout this one-semester course, students assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design a fitness program to meet their individual fitness goals.

Personal Financial Responsibility**Sem#_4540**

This introductory finance course teaches what it takes to understand the world of finance and make informed decisions about managing finances. Students learn more about economics and become more confident in setting and researching financial goals as they develop the core skills needed to be successful. In this one-semester course, students learn how to open bank accounts, invest money, apply for loans, apply for insurance, explore careers, manage business finances, make decisions about major purchases, and more. Students will be inspired by stories from finance professionals and individuals who have reached their financial goals.

Psychology**Sem#_1532**

This two-semester course introduces high school students to the study of psychology and helps them master fundamental concepts in research, theory, and human behavior. Students analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological, psychosocial, and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field. Course components include an introduction to the history, perspectives, and research of psychology; an understanding of topics such as the biological aspects of psychology, learning, and cognitive development; the stages of human development; aspects of personality and intelligence; the classification and treatment of psychological disorders; and psychological aspects of social interactions.

Sociology**Sem#_1534**

Providing insight into the human dynamics of our diverse society, this is an engaging, one-semester course that delves into the fundamental concepts of sociology. This interactive course, designed for high school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior, both historically and in modern times.

Preparing for College and Careers

Sem#_5394

Offering a comprehensive analysis of different types of motivation, study habits, and learning styles, this one-semester course encourages high school and middle school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this one-semester course covers important study skills, such as strategies for taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques.

Career Information and Exploration

Sem#_0522

Introducing high school students to the working world, this course provides the knowledge and insight necessary to compete in today's challenging job market. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities, develop the skills and job search documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve. This one-semester course includes lessons in which students create a self-assessment profile, a cover letter, and a résumé that can be used in their educational or career portfolio.

Introduction to Business

Sem#_4518

In this two-semester introductory course, students learn the principles of business using real-world examples—learning what it takes to plan and launch a product or service in today's fast paced business environment. This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

Interactive Media

Sem#_5232

Digital Arts focuses on building a solid foundation of the elements of art and design: line, shape, form, color, value, space, and texture. Topics include learning processes for evaluating artworks and identifying selected artists' works, styles, and historical periods. Students learn 3D space in a 2D environment; filters, gradients, and highlights; and methods of working with color. By the end of this course, students will have created a unique portfolio of digital artwork, including repeating images to be used as a computer's desktop background, a logo with text, two images scaled proportionally to one another, and a poster image and layout. Students advance their skills using Inkscape, a free open-source alternative to Adobe® Illustrator®, and also learn new tools such as the Spiral, Bezier, and Paint Bucket Tools.

Health Science Concepts

This yearlong course introduces high school students to the fundamental concepts of anatomy and physiology—including the organization of the body, cellular functions, and the chemistry of life. As they progress through each unit, students learn about the major body systems, common diseases and disorders, and the career specialties associated with each system. Students investigate basic medical terminology as well as human reproduction and development. Students are introduced to these fundamental health science concepts through direct instruction, interactive tasks, and practice assignments. This course is intended to provide students with a strong base of core knowledge and skills that can be used in a variety of health science career pathways.

Introduction to Entrepreneurship

Sem#_5967

This one-semester course teaches the key skills and concepts students need to know to plan and launch a business. Students learn about real-life teen entrepreneurs; characteristics of successful entrepreneurs; how to attract investors and manage expenses; sales stages, planning, and budgeting; how to generate business ideas and create a business plan; and how to promote and market a company. Topics include exploring factors of business success and failure, economic systems, competition, production, costs and pricing, accounting, bookkeeping and financial reporting, working with others, and successfully managing employees.

Health Science Education I**Sem#_5282**

This high school course introduces students to a variety of healthcare careers, as they develop the basic skills required in all health and medical sciences. In addition to learning the key elements of the U.S. healthcare system, students learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the health care field.

Personal Financial Responsibility**Sem#_4540**

This introductory finance course teaches what it takes to understand the world of finance and make informed decisions about managing finances. Students learn more about economics and become more confident in setting and researching financial goals as they develop the core skills needed to be successful. In this one-semester course, students learn how to open bank accounts, invest money, apply for loans, apply for insurance, explore careers, manage business finances, make decisions about major purchases, and more. Students will be inspired by stories from finance professionals and individuals who have reached their financial goals.

Medical Terminology

This semester-long course introduces students to the structure of medical terms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to health care settings, medical procedures, pharmacology, human anatomy and physiology, and pathology. The knowledge and skills gained in this course provide students entering the health care field with a deeper understanding of the application of the language of health and medicine. Students are introduced to these skills through direct instruction, interactive tasks, practice assignments, and unit-level assessments.

SUBSCRIPTION BASED ELECTIVES

Edgenuity offers a suite of eDynamic Learning electives on a subscription basis. These electives are priced separately by enrollment. For more information on these courses please contact us at (317)975-2746.

MIDDLE SCHOOL ELECTIVES

Middle School 2D Studio Art 1A*
Middle School 2D Studio Art 1B*
Middle School Coding 1A*
Middle School Coding 1B*
Middle School Digital Art & Design 1A*
Middle School Digital Art & Design 1B*
Middle School Exploring Music 1A*
Middle School Exploring Music 1B*
Middle School Game Design 1A*
Middle School Game Design 1B*
Middle School Journalism 1A*
Middle School Journalism 1B*
Middle School Photography 1A*
Middle School Photography 1B*

HIGH SCHOOL GENERAL ELECTIVES

African-American History*
American Sign Language 1A*
American Sign Language 1B*
American Sign Language 2A*
American Sign Language 2B*
Anthropology I:
Uncovering Human Mysteries*
Anthropology II:
More Human Mysteries
Uncovered*
Archaeology: Detectives of the Past*
Creative Writing*
Gothic Literature: Monster Stories*
History of the Holocaust*
Mythology & Folklore: Legendary Tales*
Philosophy: The Big Picture*
Social Problems I: A World in Crisis*
Social Problems II:
Crisis, Conflicts, & Challenges*
World Religions: Exploring Diversity*

ARTS, AUDIO/VIDEO TECHNOLOGY, AND COMMUNICATIONS

Animation*
Digital Photography 1A*
Digital Photography 1B*
Digital Photography II*
Introduction to Social Media: Our Connected World*
Journalism 1A*
Journalism 1B*
Music Appreciation*
Public Speaking 1A*
Public Speaking 1B*

BUSINESS, MANAGEMENT, & ADMINISTRATION

International Business:
Global Commerce in the 21st Century*

EDUCATION & TRAINING

Early Childhood Education 1A*
Early Childhood Education 1B*
Real World Parenting*

ENERGY

Renewable Technologies 1A*
Renewable Technologies 1B*

HOSPITALITY & TOURISM

Culinary Arts 1A*
Culinary Arts 1B*
Hospitality & Tourism 1:
Traveling the Globe*
Hospitality & Tourism 2A:
Hotel & Restaurant
Management*
Hospitality & Tourism 2B:
Hotel & Restaurant
Management*

HUMAN SERVICES

Cosmetology 1: Cutting Edge Styles*
Cosmetology 2: The Business of Skin & Nail Care*
Fashion & Interior Design*
Nutrition & Wellness*
Peer Counseling*

INFORMATION TECHNOLOGY

Cybersecurity 1A*
Cybersecurity 1B*
Game Design 1A*
Game Design 1B*

LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

Careers in Criminal Justice*
Criminology: Inside the Criminal Mind*
Introduction to Military Careers*
Law & Order: Introduction to Legal Studies*
National Security*
Principles of Public Service: To Serve & Protect*

MANUFACTURING

Introduction to Manufacturing:
Product Design & Innovation*

MARKETING

Advertising and Sales
Promotion*
Sports and Entertainment
Marketing*

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

Astronomy: Exploring the Universe 1A*
Astronomy: Exploring the Universe 1B*
Biotechnology 1A*
Biotechnology 1B*
Concepts of Engineering and Technology*
Forensic Science I: Secrets of the Dead*
Forensic Science II: More Secrets of the Dead*
Great Minds in Science:
Ideas for a New Generation*
Marine Science 1A*
Marine Science 1

MIDDLE SCHOOL CURRICULUM

MIDDLE SCHOOL LANGUAGE ARTS

Language Arts, Grade 7

Sem#_0420-07

Students grow as readers, writers, and thinkers in this middle school course. With engaging literary and informational texts, students learn to think critically, analyze an author's language, and cite evidence to support ideas. Students complete an in-depth study of Jack London's classic novel *White Fang* and read excerpts from other stories, poetry, and nonfiction. Explicit modeling and ample opportunities for practice help students sharpen their vocabulary, grammar, and listening skills. Students also respond routinely to texts they have read. In extensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full year course, students develop a mastery of reading, writing, and language arts skills.

Language Arts, Grade 8

Sem#_0420-8

In this course, students build on their knowledge and blossom as thoughtful readers and clear, effective writers. A balance of literary and informational texts engage students throughout the course in reading critically, analyzing texts, and citing evidence to support claims. Students sharpen their vocabulary, grammar, and listening skills through lessons designed to provide explicit modeling and ample opportunities to practice. Students also routinely write responses to texts they have read, and use more extensive, process-based lessons to produce full-length essays in narrative, informative, analytical, and argumentative formats. In this full year course, students develop a mastery of reading, writing, and language arts skills.

MIDDLE SCHOOL SCIENCE

Life Science, Grade 7

Sem#_0460-07

This seventh-grade course focuses on introducing students to the diversity of life found on our planet. The course includes an overview of scientific principles and procedures and leads students toward a clearer understanding of cells and heredity, the five kingdoms, human body systems, and ecology. As students refine and expand their understanding of life science, they will apply their knowledge in investigations that require them to ask questions and explore the world around them. Throughout the course, students will also solve problems, reason abstractly, and learn to think critically.

Earth Science, Grade 8

Sem#_0460-08

Students enrolled in this dynamic eighth-grade course will explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly more prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing Earth. Earth Science is a two-semester course that will provide a solid foundation for understanding the physical characteristics that make the planet Earth unique and will examine how these characteristics differ among the planets of our solar system.

MIDDLE SCHOOL MATH

Mathematics Grade 7

Sem#_0430-07

This course begins with an in-depth study of proportional reasoning during which students utilize concrete models such as bar diagrams and tables to increase and develop conceptual understanding of rates, ratios, proportions, and percentages. Students' number fluency and understanding of the rational number system are extended as they perform operations with signed rational numbers embedded in real-world contexts. In statistics, students develop meanings for representative samples, measures of central tendency, variation, and the ideal representation for comparisons of given data sets. Students develop an understanding of both theoretical and experimental probability. Throughout the course, students build fluency in writing expressions and equations that model real-world scenarios. They apply their understanding of inverse operations to solve multi-step equations and inequalities. Students build on their proportional reasoning to solve problems about scale drawings by relating the corresponding lengths between objects. The course concludes with a geometric analysis of angle relationships, area, and volume of both two- and three-dimensional figures.

Mathematics Grade 8**Sem#_0430-08**

The course begins with a unit on input-output relationships that builds a foundation for learning about functions. Students make connections between verbal, numeric, algebraic, and graphical representations of relations and apply this knowledge to create linear functions that can be used to model and solve mathematical and real-world problems. Technology is used to build deeper connections among representations. Students focus on formulating expressions and equations, including modeling an association in bivariate data with a linear equation, and writing and solving linear equations and systems of linear equations. Students develop a deeper understanding of how translations, rotations, reflections, and dilations of distances and angles affect congruency and similarity. Students develop rules of exponents and use them to simplify exponential expressions. Students extend rules of exponents as they perform operations with numbers in scientific notation. Estimating and comparing square roots of non-perfect squares to perfect squares exposes students to irrational numbers and lays the foundation for applications such as the Pythagorean theorem, distance, and volume.

Pre-Algebra**Sem#_2508**

This full-year course is designed for students who have completed a middle school mathematics sequence but are not yet algebra ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in numbers and operations, expressions and equations, ratios and proportions, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

MIDDLE SCHOOL SOCIAL STUDIES**Social Studies-US History, Grade 7****Sem#_0470-07**

Offering an interactive and comprehensive overview of American history, this course engages and inspires students to learn about the rich and diverse history of America's native peoples, early European colonization and settlement in America, and the creation of a new nation through the American Revolution. Middle school students enrolled in this course will closely examine major changes brought about by the nation's reconstruction, industrialization, urbanization, and progressive reforms and consider the implications each of these events had on the expansion of the United States' global influence through modern times. Over the course of two semesters, interesting course content encourages students to think carefully about the challenges and opportunities facing the United States in the twenty-first century.

Social Studies-World History, Grade 8**Sem#_0470-08**

Providing students with an opportunity to learn the diverse history that has shaped our world, this course delves into the evolution of civilization from the rise of ancient empires through the twenty first century. Middle school students enrolled in this exciting and informative course investigate the development of medieval societies, the effects of the Renaissance and the Reformation, and the progress made during various periods of revolution, industrialization, urbanization, and reform. Over the course of two semesters, students analyze effects of political conflicts and social issues on the continuing development and interdependence among nations in the modern world.

MIDDLE SCHOOL WORLD LANGUAGES**MS Spanish 1****Sem#_0406**

Middle school students begin their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

MS Spanish 2**Sem#_0406**

Students in middle school continue their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading

and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

MS French 1

Sem#_0406

Students in middle school begin their introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

MS French 2

Sem#_0406

Middle school students continue their introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

MS German 1

Sem#_0406

Middle school students begin their introduction to German with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major German-speaking areas in Europe.

MS German 2

Sem#_0406

Students continue their introduction to middle school German with this second-year course by covering fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major German-speaking areas in Europe.

MS Chinese 1

Sem#_0406

In this middle school course, students begin their introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

MS Chinese 2

Sem#_0406

Middle school students continue their introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

MS Latin 1

Sem#_0406

Students in middle school begin their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

MS Latin 2**Sem#_0406**

Middle school students continue their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

MIDDLE SCHOOL ELECTIVES***MS Exploring College and Careers****Sem#_0493**

This course prepares middle school students to make informed decisions about their future academic and occupational goals. Through direct instruction, interactive skill demonstrations, and practice assignments, students learn how to assess their own skills and interests, explore industry clusters and pathways, and develop plans for career and academic development. This course is designed to provide flexibility for students; any number of units can be selected to comprise a course that meets the specific needs of students.

Strategies for Academic Success**Sem#_5394**

Offering a comprehensive analysis of different types of motivation, study habits, and learning styles, this one-semester course encourages high school and middle school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this one-semester course covers important study skills, such as strategies for taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques.

*** IATS allows for Middle School students to take any of the offered electives for high school credit***

TEST PREPARATION**VIRTUAL TUTOR: ACT®**

This course provides students with the opportunity to prepare to successfully complete the ACT® college-entrance exam. Practice tests diagnose and target areas of opportunity, and students are prescribed individual study paths. The learning experience includes video-based instruction by highly qualified teachers, interactive assignments, and frequent assessment opportunities to track progress.

VIRTUAL TUTOR: SAT®

Updated to reflect the 2016 changes to the test, this test preparation course effectively prepares students for all sections of the SAT® exam. Course content is broken into strands, allowing students to focus on each subject extensively before moving on to the next area of study. Within each strand, a diagnostic pretest identifies students' strengths and weaknesses and tailors a personalized study plan for each test-taker.

VIRTUAL TUTOR: PSAT®

This course provides students with the opportunity to prepare for success on the PSAT®. Practice tests diagnose and target areas of opportunity, and students are prescribed individual study paths. The learning experience includes video-based instruction by highly qualified teachers, interactive assignments, and frequent assessment opportunities to track progress.

VIRTUAL TUTOR: ACCUPLACER®

This course reviews the concepts and skills essential for college readiness as measured by the Next Generation ACCUPLACER® post-secondary placement exam. In this course, students complete a diagnostic pretest for each set of skills that assesses specific areas of strength and weakness. Based on the assessment results, the student receives a personalized learning plan, providing the most efficient and effective preparation possible.

VIRTUAL TUTOR: ASVAB

This course prepares students for the Math, Verbal, and Science sections of the Armed Services Vocational Aptitude Battery. Each subject includes multiples strands, each with its own diagnostic pretest—allowing students to focus their study only on their areas of weakness. Personalized study plans based on the diagnostic results include video-based instruction, assignments and practice, and assessment to ensure that students have mastered material.

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DUAL ENROLLMENT WITH IVY TECH

Indiana Agriculture & Technology School Partners with Ivy Tech Community College with our dual enrollment program. Earning dual credits in high school will save your family money and time by earning college credits for the courses you already are taking in high school. For additional information on how to apply for dual enrollment and what courses are offered, please contact our main office at (317)975-2746.

