

High School Course Catalog

2011-2012 Academic Year



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ACADEMY WISCONSIN

Where Education Clicks

Art/Music

Art Appreciation (.5)

In this course, students will be analyzing art with the eyes of an art historian, comparing and contrasting the sculpture of ancient peoples, recognizing and describing the major characteristics of the various "isms" of Europe and America, and identifying examples of the outstanding art of Asia, India, Africa and Pre-Columbian American.

AP Art History

This course will provide students with college level instruction in the history of art. Students will examine major forms of artistic expression from the past and present and from a variety of cultures. Students will learn to look at these works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. The AP Exam fee is approximately \$80.
Prerequisites: Junior or Senior Standing

Music Appreciation (.5)

This one semester course is designed for the high school student who would like to explore even more into the musical world. Units such as Musical Elements, Melody and Harmony, Descriptive Listening Skills, the Musical Time Periods, and Instruments of the Band and Orchestra are some examples of musical ideas we will discuss. Each student is responsible for completing all of the work and attending a weekly lecture.

Business Education

Accounting I (.5)

Learn the basic accounting procedures including preparing financial reports for starting, running, and managing a business. If you have plans to attend college to pursue a degree in any area of business (Marketing, Administration, Management, Finance, Law, etc.), this course is for you!

Accounting II (.5)

This course builds on the skills and knowledge covered in Accounting I. Success in the business world begins with an understanding of Accounting. Learn the basic accounting procedures including preparing financial reports for starting, running, and managing a business. If you have plans to attend college to pursue a degree in any area of business (Marketing, Administration, Management, Finance, Law, etc.), this course is for you!

Marketing (.5)

The service sector of our society is rapidly growing increasing job opportunities for people with real marketable skills. Realize first-hand, what it takes to be successful by learning marketing techniques such as selling, shoplifting prevention, dynamic retailing, human relations, and management. Energetic and creative people are heavily in demand by many of today's largest corporations and smallest businesses. Course work also includes the study of advertising, public relations, display, pricing, packaging and market research.

Business Law (.5)

What do you do if you're served a summons and you realize you are being sued? What can you do if a salesperson talked you into a poor contract? What are your rights if an employer asks you to work more hours than allowed under the Child Labor Law? Learn answers to these and other legal questions of personal interest in Business Law. Valuable for personal use, this course will benefit the student pursuing a career in any phase of business. Criminal law, civil lawsuits, contracts, and employment law are just some of the topics covered. Case studies along with current legal events are used to assist student learning.

Personal Finance (.5)

Understanding financial management concepts is an important life skill. From credit to insurance to taxes, it is imperative that students understand the consequences of their choices. Wisely managing their money, students become citizens that are more responsible. A thorough understanding of financial concepts, with practical application through activities and projects, will enable students to leave this course with applicable, useful skills for life. This course surveys the basic personal financial needs of most individuals and emphasizes the basics of budgeting, saving, checking, investments, credit, the wise use of insurance, and paying and preparing income tax returns. After high school, students face a world filled with possibilities, and the more knowledge they can acquire, the higher the probability that their financial future will be secure. Students taking this course will learn to better prepare for their financial futures.

Entrepreneurship (.5)

Entrepreneurial literacy is a real American necessity, whether you work for someone else or start your own business. These are the skills that empower everyone to succeed in any type of job in any industry and fuel the American economy. Do you have what it takes to operate and manage your own business? This course helps students build a business from the ground up, experiencing all aspects of planning a new venture--from determining your personal vision to conducting a market analysis, to looking at start-up costs. Entrepreneurship combines the flexibility of Internet-based learning with the benefits of face-to-face instruction. Successful completion earns you three WCTC credits, which are transferable to some four-year universities.

English

English 9

English 9 is a full year course. First semester the focus is on learning the various purposes of writing, with a focus on introducing research skills and learning how to analyze a piece of fiction. The two literary genres read first semester are short stories and poetry. All literature read comes from the textbook *The Elements of Literature - Third Course*. Second semester introduces students to three more genres: the nonfiction essay, drama, and the novel. Students read Shakespeare's *Romeo & Juliet* as well as George Orwell's *Animal Farm*. Students further hone their research and analytical skills during second semester.

Honors English 9

Honors English 9 is a full year course. First semester students review the various purposes of writing, with a focus on introducing research skills and learning how to analyze a piece of fiction. The two literary genres read first semester are short stories and poetry, and the literature read comes from the textbook *The Elements of Literature - Third Course*. In the honors track, students must complete an additional project each semester. First semester honors students independently read a novel and write a formal book review. Second semester introduces students to three more genres: the nonfiction essay, drama, and the novel. Students read Shakespeare's *Romeo & Juliet* as well as George Orwell's *Animal Farm*. Students further hone their research and analytical skills during second semester. Second semester honors students independently read a nonfiction book and give a Thematic Analysis Speech relating to the book.

English 10

This year long elective course covers world literature through the use of several reading pieces. Students will learn how to read and respond to literature utilizing a variety of writing styles. In addition, students will learn about literary elements and how those elements are present within the writing pieces.

Each semester, students enrolled in any Honors English courses will be required to read an additional book from a list of titles provided. There is a writing based project that must be completed.

Semester 1 will cover the following: Thinking Skills and Literary Terms, Myth Study and Writing, Flood Myths/Destruction of the World, *Antigone* - Marcus Aurelius, *House on Mango Street* - Sandra Cisneros

Semester 2 will cover the following: Short Story Unit, non-fiction Poetry Unit, *Cyrano de Bergerac* by Edmond Rostand.

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English 11

This year long course explores American literature and the pursuit of the American Dream. Students will examine the roots of American literature and develop a deeper sense of self. Through an exploration of classic American themes and ideals, students will deepen their awareness of political and social influences that have shaped American culture as it is known today through different genres. Students will think about literature and its connection to their lives and look at how it reflects the country's sometimes harmonious, sometimes volatile history. They will make connections between life and literature and exploring identity.

First Semester required novel: OF MICE AND MEN by John Steinbeck. Additional reading will range from Native American Literature, the Puritan and Transcendentalist movement, to contemporary historical events and poetry. Students will respond to the readings using a variety of writing styles.

The Second Semester required novel is THE ADVENTURES OF HUCKLEBERRY FINN by Mark Twain. Additional reading will involve short stories and poetry along with essays. Students will respond to the readings using a variety of writing styles.

Honors English 11

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The Second Semester required novel is THE ADVENTURES OF HUCKLEBERRY FINN by Mark Twain. Additional reading will involve short stories and poetry along with essays. Students will respond to the readings using a variety of writing styles.

British Literature

This English course is recommended for the college-bound student. The required reading begins with the epic, moves to Canterbury Tales, on to Shakespeare, through the Romantic period, the Victorian era and ends at World War I. The emphasis of this course is not only the exploration of this classic literature, but also the development of analytical writing. This class requires students to exercise critical reading skills and a host of academic writing skills.

Composition

Composition is a year long junior and senior elective. The class contains instruction, review and practice in basic language, grammar, writing, and literature. When students have completed this class, they should feel confident that they can handle reading and writing assignments in all high school subjects. The course will introduce students to 6 Traits Writing, with each unit reviewing one of the traits.

Students will cover the following topics during semester 1: Ideas, Organization, Sentence Fluency, Conventions

Students will cover the following topics during semester 2: Voice, Word Choice, Presentation, Introduction to Research, Biography/Autobiography.

Creative Writing

This class introduces students to fiction, non-fiction, poetry, script writing and multimedia story telling. The material is taught through the reading of a variety of short stories, poems and essays. Emphasis is placed on incorporating advanced techniques into student writing as well as understanding and recognizing these techniques in literature.

Basic Grammar

This basic English course is designed for the senior who struggles with English. Semester 1 of the course deals primarily with the eight parts of speech. Second semester reviews the writing process and the structure of the five paragraph essay.

Reading Comprehension (.5)

Students will learn skills and strategies to become better readers.

Speech (.5)

This course concentrates on the structure, composition, style, and delivery techniques of a variety of oral performances. Students learn about the communication process, including verbal and nonverbal strategies as well as effective listening techniques. They will participate in small groups to acquire discussion and problem solving skills. They will also learn how to research, write, and deliver short speeches. Students will also gain experiences with performing in front of an audience in face-to-face, technology mediated, and business style presentations. Significant interaction with other classmates, as well as attendance at specific Elluminate sessions is required.

AP English 12 Literature and Composition

Advanced Placement English 12 is recommended for the college bound student. Passing of the course as well as a score of 3 or higher on the AP English Literature & Composition Exam will result in the student earning college retro-credits. The class will engage students in a rigorous study of literature ranging from early texts such as Sophocles' Oedipus Rex and Homer's The Odyssey to twentieth century poetry and fiction. Students will learn to synthesize textual details and historical context and express their thoughts effectively in writing. The overall purpose of the class is to not only prepare students for the AP Exam but also foster an enjoyment of and respect for literature.

Family and Consumer Science

Career Planning (.5)

In Career planning students will use online inventories to explore career and life options that fit their individual interests, needs, and skills. Students begin with a thorough examination of their own interests, aptitudes, achievements, and personality styles. Then, they explore potential career matches, examining job market information and plotting training and educational paths. Along the way, students learn to craft effective resumes and cover letters, how to handle job interview situations and skills needed to keep the job.

Child Development (.5)

Explore the earliest child developmental stages and the factors that influence development. Learn how to meet the physical, intellectual, emotional and social needs of the child at each stage of development and the role of positive, effective parenting/care-giving. This course is essential for students with goals in childcare, K-12 education, child psychology, pediatrics and family and human services as well as parenting. Note: This course fulfills Wisconsin state mandated shaken baby syndrome requirements.

Life Skills (.5)

Life Skills is designed to increase student knowledge and ability in skills necessary for everyday living. The course emphasizes defining personal values, goal-setting and planning, making decisions and solving problems, evaluating information and dealing with media and peer pressure, communication and relationships, decision making, nutrition and personal safety, and contributing to your community.

Information Technology

Keyboarding/Word Processing (.5)

Prepare yourself for the computerized workplace. This course is intended for students who need to learn or improve their keyboarding technique and skills. Students will master touch keyboarding and improve their proofreading, editing, and writing skills while formatting letters, reports, tables, and other documents. Master the skill you can't do without in today's world where the keyboard is the primary means of communication and technology input.

Computer Applications I (.5)

Master the features of common computer applications and enjoy the benefits in both your academic and business careers. No matter what your career choice, you will be expected to have professional software application skills. In any business, time is money. People who know how to successfully use spreadsheet, word processing, and presentation software give themselves a competitive advantage in the job market.

Computer Applications II (.5)

Excel in our digital world by acquiring the hardware, software, Internet, and business productivity skills expected by employers and post-secondary institutions. Students will master advanced software concepts and integrate those with emerging technologies to design and create a variety of documents and presentations.

Web Development A (HTML and CSS) (.5)

In Web Development A (HTML & CSS), students will learn how to create their own web sites by writing their own HTML code, the backbone behind all web sites. Additionally, students will learn how to include & use CSS to streamline the development of their sites. Students will publish their work on a web server. For the culminating final project, students will gain real-world experience as they create a "real" web site.

Web Development B (Java Script) (.5)

Students will learn how to enhance their websites with dynamic content by adding JavaScript code to their pages. Students will be introduced to JavaScript basics from a web development perspective. By the end of the course, they will be able to write their own simple JavaScript applications. A good working knowledge of HTML and an introduction to CSS is required for enrollment. Prerequisite: Web Development A.

Web Design (Flash) (.5)

Students will learn FLASH MX, an excellent multimedia program for bringing animation into web sites. Students will also explore Flash as a programming language, graphic application and a movie editor.

Web Design (Editors) (.5)

This one-semester course introduces students to the mechanics and elements of web design. Students will learn the concepts of planning and organizing websites, and documentation and copyright issues associated with website design. Students will progress through the course, engaging in a variety of project-based assessments to evaluate their understanding. After completing the course, students will be able to have a better understanding of planning and organizing a website, understand elements of design, explain copyright and fair use doctrines and how they apply to website creation, and use a WYSIWIG editor and other online tools to create a website.

Programming I (JAVA) (.5)

An introduction to the programming language JAVA. The basics of this programming language will be covered along with basic programming logic. A history of the development of programming languages and the Java language will be covered, along with the program basics of Java and the Applet basics of Java. Near the end of the semester GUI, graphical user interface will be introduced, if time allows.

Programming II (Java) (.5)

This course will continue the programming logic learned in semester I and introduce GUI, Graphical User Interface, allowing students to use the GUI to create small practical GUI based programs which users can use for practical use. i.e. menus, mathematically conversion apps. Applets for web use will be covered as well.

Digital Imaging (.5)

In Digital Imaging, students begin by learning the basic functions of digital cameras and general photographic concepts such as composition, subject, exposure, lighting and flash. Students then learn how to use the GIMP, an image-processing program to create and manipulate digital images. Specific skills taught in this course include using layers, cropping images, color and lighting concepts such as hue and saturation, and special effects such as selective decolorization and basic animation. As a culminating activity, students build a portfolio of work to demonstrate the skills they have learned. Students do not need to have access to a digital camera or photography experience to take this course.

Mathematics

Pre Algebra

This course is for the student who needs reinforcement of math skills before taking high school Algebra. It introduces algebraic concepts and builds on prior mathematical knowledge. Students will review the basics of fractions, decimals, percents, and the order of operations. Students will be introduced to the set of Integers and how to calculate with positive and negative numbers, number sets and properties, variables, and solving equations and inequalities. Students will learn some basic statistic concepts including data collection, analysis and graphing. Students will begin Coordinate Plane graphing, linear graphing and learn about functions. Students will move from Rational numbers into Irrational numbers while studying square roots and the Pythagorean Theorem for right triangles. The basic geometric concepts of triangles, polygons, perimeter, area, surface area and volume will also be introduced.

Algebra I

Algebra I is the introductory course in the typical high school level mathematics sequence. Coursework includes evaluating expressions, solving linear equations and inequalities, graphing lines, operations, and developing algebraic problem solving techniques. All students must take Algebra I before enrolling in any other mathematics course.

Geometry

Geometry is intended to follow Algebra I in the typical high school level mathematics sequence. It is designed to help students learn and apply geometric concepts to the real world. 1st semester coursework includes geometric reasoning, properties of plane and solid figures and the relationships among these figures, and logical proofs. Successful completion of Geometry (or Honors Geometry) is required for admission to most colleges.

Honors Geometry

Honors Geometry covers the same topics as Geometry, with more emphasis placed on formal proof and applications. Many concepts are also covered in greater depth. Successful completion of Geometry (or Honors Geometry) is required for admission to most colleges. Students enrolled in this course are expected to have demonstrated a high level of achievement in Algebra I.

Algebra II

Algebra II is a continued study of math concepts including linear and quadratic equations, inequalities, relations, functions, radicals, imaginary and complex numbers. A graphics calculator is strongly recommended for this course. The teacher will suggest a specific type. The cost will be about \$90. Pre-requisites: Algebra I and Geometry.

Pre Calculus and Trigonometry

Students, as mathematic analysts, will investigate how advanced mathematics concepts can solve problems encountered in operating national parks. The purpose of this course is to study functions and develop skills necessary for the study of calculus. The pre-calculus course includes analytical geometry and trigonometry. A graphics calculator is strongly recommended for this course. The teacher will suggest a specific type. The cost will be about \$90. Pre-requisites: Algebra I, Geometry, and Algebra II.

Math for Consumers

This course provides a practical and comprehensive foundation for everyday math skills. It covers relevant topics for daily survival including: getting a job, wages, tips, paycheck taxes, FICA, deductions; cost of buying and maintaining a vehicle; saving and checking accounts with simple and compound interest calculations; credit cards and how interest is calculated; cost of raising a family; renting an apartment or buying a home and getting a mortgage; planning a monthly budget; all types of insurances and filling out income tax forms. It also reviews essential number and algebraic concepts including: fractions, decimals, and percents, order of operations, solving equations, graphing, linear graphing, and exponential graphing.

Integrated Math

Integrated Math is a course intended for the student who passed Algebra I, but who is not yet ready to take Geometry. As an integrated course, the class both reviews number sense, mathematical operations, algebraic skills, and probability. Problem solving, communication skills, reasoning and relating mathematics to the real world are stressed.

AP Calculus A/B

In AP Calculus AB, students learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Instead of simply getting the right answer, students learn to evaluate the soundness of proposed solutions and to apply mathematical reasoning to real-world models. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. AP Calculus AB prepares students for the AP Exam. The content aligns to the scope and sequence specified by the College Board and to widely used textbooks. The AP Exam fee is approximately \$80. A graphics calculator is strongly recommended for this course. The teacher will suggest a specific type. The cost will be about \$90. Pre-requisites: Algebra I, Algebra II, Geometry and Pre-Calculus

AP Calculus B/C

This is a college level course covering derivatives, integrals, limits, approximation, applications and modeling, and sequences and series. Prerequisites: Knowledge of algebra, geometry, trigonometry, analytic geometry, and elementary functions.

Physical Education/Health

Health (.5)

This course will help students develop the knowledge and skills they need to make healthy decisions that allow them to stay active, safe and informed. The lessons and activities are designed to introduce the student to important aspects of the main types of health: emotional and mental, social and consumer, and physical. Among other topics, students will explore nutrition, understanding and avoiding disease, first aid and CPR, and human sexuality. Students will find out about the components of a healthy lifestyle and ways to approach making healthy choices and decisions.

Intro to Fitness (.5)

Through this online Physical Education course, students will explore many diverse activities, and will learn a wide variety of fitness concepts that they will be able to use in their everyday life. Students will learn about physical fitness and how their body works by studying static and dynamic balance, linear and rotary motion, anatomy and biomechanics. Lifelong skills - such as golf, tennis, Frisbee, and orienteering, along with stress management concepts incorporated into Yoga and Pilates - will also be taught. Students will develop a sense of self-esteem and accomplishment through completion of cardio-respiratory activities and routines, attaining their personal fitness goals, and learning to care for their body. Integrated assignments will show students that content areas of Science, Social Studies, Math and English are relevant throughout Physical Education, and apply in our everyday activities. Pre-assessments and section quizzes will be given weekly, with exams given after each unit to assess content understanding. After completion of this course students, will have the knowledge to stay fit and stay active for a lifetime.

Nutrition and Wellness (.5)

This .5 credit course will introduce the student to an overview of good nutrition principles that are needed for human physical & mental wellness. Discussion of digestion, basic nutrients, weight management, sports & fitness, and life-span nutrition is included. Application to today's food and eating trends, plus learning to assess for reliable nutrition information is emphasized.

Personal Fitness (.5)

This online Personal Fitness course requires students to participate in weekly cardiovascular, flexibility and strength and endurance activities. Students who are unable to participate in such physical exercises will be unable to complete the requirements of this course. In this course students will establish personal health and fitness programs, stay physically active, and make healthy lifestyle choices far beyond their high school years. Other topics include the value of participating in physical activities, the importance of disease prevention, and choosing safe, challenging and enjoyable activities that will allow the student to assess and evaluate their lifestyle.

Fitness Lifestyle Design (.5)

While this is an online Personal Fitness course, the course standards do require students to participate in weekly cardiovascular, flexibility and strength and endurance activities.

Science

Anatomy and Physiology

This course is a fascinating in-depth exploration of the human body. The level of rigorousness is designed for students who are considering allied health or medicine as a career path; however, it can also be used by the student to enrich or enhance their biological background. The course will use a systems approach and will emphasize how organs and body systems work together to carry on complex processes. Concepts and principles will be related to familiar health issues, problems and experiences we face as humans. Online interactives will be required with each unit with an emphasis on vocabulary building as anatomy is based on a strong vocabulary derived from both Latin and Greek. Upon completion of this course, students will have a thorough understanding of the human body and how its parts work together to maintain the delicate equilibrium of life. Prerequisites: Biology and Chemistry

Earth Science

In the first semester the student will explore the composition and dynamics of the solid earth and its oceans. Specific attention will be given to composition of matter, minerals, rock formation and the rock cycle, weathering and erosion, physical features of the earth's surface, mapping and coordinate systems, interior structure, plate tectonics, earthquakes, volcanoes, fresh water, ground water, ocean movement and oceanography. The student will encounter information through print, audio, and video online sources, doing research, performing lab exercises, and exchanging ideas in discussion boards. The student will be assessed on both the level of their knowledge of the concepts encountered and their ability to apply those concepts to real world situations.

In the second semester the student will explore a survey of topics related to the earth. Specific attention will be given to the geologic and fossil records supporting geologic time scales, structure and characteristics of the atmosphere, energy flow in the atmosphere, determination and change in world climates, effect of pressure, temperature, and moisture on the atmosphere, weather and forecasting, effects of the moon and sun, the solar system, structures in the universe. The student will encounter information through print, audio, and video online sources, doing research, performing lab exercises, and exchanging ideas in discussion boards. The student will be assessed on both the level of their knowledge of the concepts encountered and their ability to apply those concepts to real world situations.

Environmental Science

This course serves as an introduction to and covers broad aspects of environmental science and environmental studies. Environmental Science is a multidisciplinary field that draws from all the sciences in addition to other fields. This course will help students better understand the relationship between humans and the world in which we live, including environmental impact of population growth on natural resources; mineral and resource extraction; water resource uses; and renewable and non-renewable sources for power generation. The course will evaluate natural environmental processes, as well as human impacts to these processes.

Intro to Biological Science

This course allows students to analyze and understand the structure and function of living things. Additional emphasis is placed upon simple cells, complex organisms, and scientific proof that all species must inter-relate to coexist.

Physical Science

During the first semester the student will be able to describe and apply the basic concepts of chemistry - structure of matter, atomic theory, organization and trends of the periodic table, chemical reactions, chemical equations, solutions, acids/bases, and organic chemistry. Students will use a variety of methods of instruction including, reading, research, online discussion, experiments, and problem solving. Students will be assessed on both their knowledge of factual information and their application of those concepts to real world situations.

During the second semester the student will be able to describe and apply the basic concepts of physics - nature of energy, Electrical Energy, electromagnetism, thermal energy, sound, geometric optics, nuclear energy, fluids, motion, forces, and Newton's Laws. Students will use a variety of methods of instruction including, reading, research, online discussion, experiments, and problem solving. Students will be assessed on both their knowledge of factual information and their application of those concepts to real world situations.

Biology

This course is a comprehensive study of the five kingdoms of living organisms and their relationship to the environment. Topics include: cell reproduction, heredity, multi-cellular plants, invertebrates, vertebrates, ecology, conservation and the environment.

Chemistry

This course emphasizes the mathematical, theoretical, and experimental basis of modern chemistry. Emphasis is placed on the use of theoretical and mathematical concepts to explain and predict chemical behavior.

An overview of the significant learning objectives that are presented in this course include Measurement, Atomic Structure, Chemical Bonding, Conservation of Matter, Stoichiometry, Gases, Acids and Bases, Solutions, Reaction Rates, Chemical Equilibrium, Organic Nomenclature, and Nuclear Chemistry.

Physics

This course is an algebra based survey which explores the fundamental physical and energy processes in our world. Students encounter the material through print, audio, and visual online sources, practice problem sets, lab experiments, discussion board exchanges, and real time instruction. Their achievement is assessed through objective and short answer quizzes, written lab reports, discussion board posts, and exams composed of both objective and free response questions.

The first semester includes the topics of kinematics, two-dimensional motion, Forces, Newton's Laws of Motion, work, energy, momentum, circular motion, and heat. The second semester includes the topics of vibration and waves, sound, light, optics, electrostatics, current electricity, magnetism, and atomic physics.

Forensic Science (.5)

The world of forensic science encompasses many science disciplines as they are used to support the legal system. Often thought of in connection with criminal cases, the forensic techniques have a wide range of application. This survey course of the fundamentals of forensic science helps the student understand how the concepts of crime scene documentation, pH analysis, DNA analysis, microscopy, soil analysis, fingerprinting and document analysis are used in criminalistics. Underlying the first part of the semester is an unsolved kidnapping case for the students to apply the concepts they have learned. The last part of the semester leads the students through a famous unsolved serial murder where they look at the information and create a solution based on the facts as they see them. They finish out the semester with an analysis of an unsolved case of their choosing.

Students encounter the material through print, audio, and video online sources, discussion board exchanges, lab exercises, and real time instruction. Their achievement is assessed through objective and short answer quizzes, discussion board posts, lab reports, and research papers.

AP Biology

In AP Biology, students build the conceptual framework necessary to understand science as a process. The content is divided into three sections, with correlating laboratory exercises: molecules and cells; heredity and evolution; and organisms and populations. Students will also explore evolution, energy transfer, continuity and change, the relationship of structure to function, regulation, interdependence in nature, and the balance of science, technology, and nature. AP Biology prepares students for the AP Exam. The content aligns to the scope and sequence specified by the College Board and to widely used textbooks. The AP Exam fee is approximately \$80. Prerequisites: Biology and Junior or Senior Standing

AP Chemistry

AP Chemistry builds students' understanding of the nature and reactivity of matter. After studying the structure of atoms, molecules, and ions, students move on to solve quantitative chemical problems and explore how molecular structure relates to chemical and physical properties. Students will examine the molecular composition of common substances and learn to predictably transform them through chemical reactions. AP Chemistry prepares students for the AP Exam. The content aligns to the scope and sequence specified by the College Board and to widely used textbooks. The AP Exam fee is approximately \$80. Prerequisites: Chemistry and Junior or Senior Standing

AP Physics

Physics is the science of matter and energy - how the universe is put together. The course has two major goals: 1) to prepare students to be successful on the AP Physics B Exam and 2) to provide students with an understanding of how our world works as it does.

This course is a non-calculus survey course covering five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. The first semester includes the topics of kinematics, Newton's Laws of Motion, work, power, and energy, circular motion and rotation, fluids, and thermal physics. The second semester includes the topics of electrostatics, current electricity, magnetism, waves, sound, optics, nuclear physics, and the standard model.

Students will encounter the material through print, audio, and visual online sources, readings and problem sets in a textbook, lab experiments and real time instruction. Their achievement is assessed through objective quizzes, graded problem sets and exams composed of both objective and free response questions.

Service Learning

In this course students are given the opportunity to search out what needs are present in their local communities and discover how they can meet some of those needs. Students must spend at least 90 hours serving those around them. These experiences can be at, but are not limited to, the following locations: food pantries, homeless shelters, libraries, schools, churches, nursing homes, hospitals, protective shelters, and individual's homes. All hours are documented and submitted to the teacher.

After completing this service, students are required to reflect on their experiences in writing.

Social Studies

American Government

The study of American Government is extremely important. At the end of the course you should clearly know and understand the responsibilities and duties of being a citizen of the United States. The yearlong course is divided into six units, with three being studied each semester. Units include: The Path to Democracy, Law Making, Law Interpreting, Rights and Freedoms, Politics in the United States and Beyond Washington (State and Local Governments, other forms of Government and Politics in a Global Society).

World Cultures

This World Cultures course will examine a broad range of geographical perspectives covering all of the major regions of the world. Each region will be reviewed in a similar structure in order for students to more clearly see the similarities and differences between each region. Specifically, the course will explore where each region is located along with its physical characteristics, including absolute and relative location, climate, and significant geographical features. The exploration will then continue on to look at each region from a cultural, economic, and political perspective, closely examining the human impact on each region from these perspectives as well as how human activities impact the environments of the region. The first semester will cover North America, South America, and Western Europe. The second semester of the course will cover Eastern Europe, Asia, Australia, and Africa.

Psychology

Psychology is the study of behavior and mental processes. This course is a survey of psychological topics with emphasis on contemporary psychological investigation. Topics discussed in first semester of the course are psychological research, biology of behavior, sensation and perception, consciousness, learning, memory, thinking and language, and intelligence. Topics discussed in second semester of the course are development, motivation and emotion, theories of personality, psychological tests, gender roles, stress and health, psychological disorders, psychotherapy, and social psychology.

Social Issues

This is a year long course that determines the relationship between human behavior and culture, and society. The objective is to determine how humans perceive the positive and negative aspects of society relating to human behavior.

Crime and Law (.5)

This one semester elective course allows students to examine the background and current status of our legal system. Topics such as constitutional law, law enforcement, the trial system and corrections are part of the curriculum. Student skills developed in the course will include discussion/debate, group work, research and writing, and analysis of current events.

U.S. in a Global Perspective (.5)

This one semester course is designed to help students develop a cultural understanding of various countries in the world today and their relationship with the United States. Students will study current events around the world, focusing on how these events came to be, what the role of the United States is in these events, and their political, social, and economic impact on the world.

World History

This course provides students with a thorough survey of the significant political, socio-economic, and cultural features of human history from the beginnings of civilization to the contemporary period. Using both primary and secondary sources and document-based investigation, students trace the emergence of the interdependence between world regions -- an interaction stimulated by European invasions and colonization and sustained by the contributions of the non-western regions.

First semester begins with the beginnings of civilization through the Middle Ages (about 15000 CE).

Second semester students start by studying the Renaissance, Reformation and the Age of Exploration and they finish by learning about and discussing current situations in Latin America, Asia, Africa and the Middle East.

US History

US History will allow students will build on their concepts of geography, civics, and political societies beginning with the world as it was in the 1500's followed by the natural unfolding of events from the explorations, the establishment the colonies, the colonial era leading up to the causes of and including the French and Indian War and The Revolutionary War. The development of American government from a confederation to a constitutional one, the launching of the Republic, through the War of 1812, the growth and development of the nation through the Louisiana Purchase and the Lewis and Clark exploration on through Manifest Destiny and the Mexican War will follow. Students will explore the changes in the nation from immigration and abolition issues to the Civil War and Reconstruction, westward expansion, to the development of the U.S. as a world power and into World War One. They will explore the 1920's, the Great Depression and World War II.

In the second semester, is a survey of American history from the pre-Columbian Era through the Civil War. During this course, students will examine the political, economic, and social development of the United States from the formation of the land bridge through the causes that led the nation to engage in a volatile civil war. Included in this course will be activities that will allow students to further explore such subject matter through written exercises, discussions, and individual research.

Economics

Economics is the study of how societies use limited resources to satisfy their unlimited wants and needs. It is the foundation of this course as students learn how fundamental decisions about the four factors of production; land, labor, capital, and entrepreneurship are made. Key topics covered include: law of supply and demand; saving, borrowing, and spending; the Federal Reserve System and the money supply; and the role of government in an open market economy.

AP Econ – Micro (.5)

Microeconomics emphasizes how individuals make choices with limited resources. Students will examine concepts such as supply and demand, factors of production, roles of labor and management, the relationship between the environment and the economy, and the impact of the government on individual decision making processes. Students study the stock market as an investment option and trace various stocks through the semester using the Wall Street Journal and the Internet as resources. This course prepares students for the AP Exam in Microeconomics.

AP Econ – Macro (.5)

Macroeconomics is an emphasis on how the economic system works as a whole. Students study how the economy is measured by using concepts such as gross domestic product (GDP) and other indicators. They examine concepts such as inflation, unemployment, world trade patterns, and the role of the Federal Reserve Bank. Students engage in decision-making processes to create an environment where high employment and a higher standard of living are achievable by using the economic tools of fiscal and monetary policy. This course prepares students for the AP Exam in Macroeconomics.

AP European History

This course is a study of the social, economic, cultural, intellectual, political and diplomatic history of Modern Europe and its place in the history of the world from the fall of Constantinople to the fall of the Berlin wall and the Soviet Union. The course will be taught at a level and rigor equivalent to that required of students in a college freshman or sophomore Modern European History course. The course objective is to develop an understanding of the major periods, ideas, movements, trends, and themes that characterize European history from approximately 1450 (the high Renaissance) to the present. Students develop the ability to analyze historical evidence and express understanding and analysis in writing. We try to prepare our students to be successful at undertaking university-level work.

The course will correspond to recent trends in history curricula at the undergraduate level and will prepare students for the College Board examination in European History given in the spring. First semester content begins with the Late Middle Ages and Renaissance period in Europe and concludes with the study of Napoleon.

Second semester content begins with the Conservative Order and reform movements of the early 1800s and ends with modern times - the study of the West at the dawn of the 21st century.

AP Government

AP US Government and Politics presents an analytic perspective on American politics. The course introduces students to the ideals, institutions, and processes that direct the daily operations of our government and shapes our public policies. Students will use a variety of theoretical perspectives and explanations to interpret and analyze the political landscape to develop a better understanding of the strengths and weaknesses of our system of government.

AP Psychology

Advanced Placement Psychology offers qualified students who wish to complete studies equivalent to an introductory college course in psychology while still in secondary school. Psychology helps students to more clearly understand their own mental processes and behavior, and that of others. The first semester major units of study include history, research, biological, sensation and perception, consciousness, learning, memory, thinking and language, and intelligence. The second semester major units of study include motivation, emotion, stress and health, personality, psychological disorders, psychotherapy, and social psychology plus an extensive review for the College Board Advanced Placement Psychology Exam.

AP US History

This History curriculum covers all of the material outlined by the College Board as necessary to prepare you to pass the AP U.S. History exam. The iQ APUSH course has been approved by the College Board through a recent audit process that involved review of the course syllabus we utilize. As a result of audit approval, the iQ APUSH course will appear on a list of courses designated by the College Board as meeting requirements to be officially recognized as an Advanced Placement class. Our text is *The American Pageant*, which is the most frequently used text in APUSH classes across the country. The passing rate on the AP exam for iQ APUSH students is above 80%! The nationwide passing rate (3 or above) is just slightly over 50%, so iQ students do extraordinarily well. Through this course you will have the opportunity to: Demonstrate comprehension of a broad body of historical knowledge, express ideas clearly in writing, work with classmates to research an historical issue, interpret and apply data from original documents, identify underrepresented historical viewpoints, write to persuade with evidence, compare and contrast alternate interpretations of an historical figure, event, or trend, explain how an historical event connects to or causes a larger trend or theme, develop essay responses that include a clear, defensible thesis statement and supporting evidence, effectively argue a position on an historical issue, critique and respond to arguments made by others, raise and explore questions about policies, institutions, beliefs, and actions in an historical context, evaluate primary materials, such as historical documents, political cartoons, and first-person narratives, evaluate secondary materials, such as scholarly works or statistical analyses, assess the historical significance and cultural impact of key literary works (e.g. *Common Sense*, *Uncle Tom's Cabin*).

AP World History

Advanced Placement World History (WHAP) is a course that is offered by the Waukesha School using the outlines of World History provided by the College Board. The course will study world history from 8000 BCE (the Neolithic Revolution) to present day. Our study of world history will divide history into five time periods, which we will study using "major trends" that help to define each era. As we study these major trends, we will also look at changes and continuities seen in world history looking at themes including interactions, gender relationships, social structures, political power, technology, demography and intellectual/religious ideas. To help us analyze and evaluate these themes, changes, and continuities we will use the "habits of minds" that all historians use to help them think through and understand how history has happened and how to draw conclusions from it.

World Language

Spanish 1

In this course, the student will begin their foreign language study through listening, speaking, reading and writing activities that are based on pedagogically proven methods of foreign language instruction. In first semester, students will study Greetings, The Calendar, Weather, Time and Colors. In second semester, the topics of study are Community, Family, Food, Pastimes and School. Through these topics students learn to express themselves using an ever-increasing vocabulary, present tense verbs, articles and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Spanish-speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards.

Spanish 2

This course is a continuation of the learning that began in the first year that will help the student improve their skills in the Spanish language. In this course, the student will increase their skills by completing listening, speaking, reading and writing activities that are based on pedagogically proven methods of foreign language instruction. In first semester, students will study Daily Routine, Animals, Entertainment, Body Parts, and Descriptions. In second semester, the topics of study are The House, Shopping, Meals, Sports, and Transportation. Through these topics students learn to express themselves using an ever-increasing vocabulary, present, and past tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Spanish-speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards.

Spanish 3

This course is a continuation of the beginning level courses that will help the student continue learning the Spanish language. In this course, the student will practice and learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. In first semester, students will study Chores, Directions, Feelings, Travel and Geography. In second semester, the topics of study are Health, Household Items, Measurements, Occupations, and Personal History. Through these topics students learn to express themselves using an ever-increasing vocabulary, present, past, future and conditional-tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Spanish-speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards.

Spanish 4

The fourth year of Spanish is a continuation of the first three years. The student will continue to sharpen listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. In first semester, students will study People, Accomplishments, Future Plans, Activities and Celebrations. In second semester, the topics of study are Possibilities, The Past, Art, Technology, and History. Through these topics students learn to express themselves using an ever-increasing vocabulary, present, past, future, conditional and subjunctive-tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Spanish-speaking world and their culture, people, geographical locations and histories.



French 1

In this course, the student will begin their foreign language study through listening, speaking, reading and writing activities that are based on pedagogically proven methods of foreign language instruction. In first semester, students will study Greetings, The Calendar, Weather, Time and Colors. In second semester, the topics of study are Community, Family, Food, Pastimes and School. Through these topics students learn to express themselves using an ever-increasing vocabulary, present tense verbs, articles and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the French-speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards.

French 2

This course is a continuation of the learning that began in the first year that will help the student improve their skills in the French language. In this course, the student will increase their skills by completing listening, speaking, reading and writing activities that are based on pedagogically proven methods of foreign language instruction. In first semester, students will study Daily Routine, Animals, Entertainment, Body Parts, and Descriptions. In second semester, the topics of study are The House, Shopping, Meals, Sports, and Transportation. Through these topics students learn to express themselves using an ever-increasing vocabulary, present, and past tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the French-speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards.

French 3

This course is a continuation of the beginning level courses that will help the student continue learning the French language. In this course, the student will practice and learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. In first semester, students will study Chores, Directions, Feelings, Travel and Geography. In second semester, the topics of study are Health, Household Items, Measurements, Occupations, and Personal History. Through these topics students learn to express themselves using an ever-increasing vocabulary, present, past, future and conditional-tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the French-speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards.

French 4

The fourth year of French is a continuation of the first three years. The student will continue to sharpen listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. In first semester, students will study People, Accomplishments, Future Plans, Activities and Celebrations. In second semester, the topics of study are Possibilities, The Past, Art, Technology, and History. Through these topics students learn to express themselves using an ever-increasing vocabulary, present, past, future, conditional and subjunctive-tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the French-speaking world and their culture, people, geographical locations and histories.

German 1

In this course, the student will begin their foreign language study through listening, speaking, reading and writing activities that are based on pedagogically proven methods of foreign language instruction. In first semester, students will study Greetings, Calendar, Weather, Time, and Colors. In second semester the topics of study are Community, Family, Food, Pastimes and School. Students learn to express themselves using an ever-increasing vocabulary, present tense verbs, articles and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the German-speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards.

German 2

This course is a continuation of the learning that began in the first year that will help the student improve their skills in the German language. In this course, the student will increase their skills by completing listening, speaking, reading and writing activities that are based on pedagogically proven methods of foreign language instruction. In the first semester, students will study, Daily Routine, Animals, Entertainment, and Body Parts. In the second semester topic of study are Descriptions, House, Shopping, Meals, Sports, and Transportation. Students learn to express themselves using an ever-increasing vocabulary, present, and past tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the German-speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards.

German 3

This course is a continuation of the beginning level courses that will help the student continue learning the German language. In this course, the student will practice and learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. In the first semester, students will study Transportation, Health, Chores, Personal Relationships, and Animals. In second semester the topic of study are Media, Childhood, Future, Food, and Environment. Students learn to express themselves using an ever-increasing vocabulary, present, past, future and conditional-tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the German-speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards

German 4

The fourth year of German builds upon the first three levels. Students will continue to sharpen their reading, writing, and listening skills as well as learn skills to think critically and express themselves on topics relevant to German culture. This fourth level will include authentic texts, current culture, and literature from Germany, Austria, and Switzerland. Students will learn vocabulary, refinement of grammar skills, and cultural competency to express themselves on a variety of topics in German. First semester topics include: German history, Environment, Youth and Multiculturalism. In the second semester the topics are: Youth culture, Art, Holidays, and Travel. This course is aligned to the national foreign language standards.

Latin 1

Latin 1 is the introduction to the basics of Latin grammar as well as an introduction to Roman life, culture, mythology, and history. The grammar portion of the course is intended to help you develop the skills necessary to translate basic sentences from Latin to English and English to Latin, and for reading simple connected passages of Latin prose and poetry. The culture portion of the course is to give you an overview of ancient Roman culture and history, an overview of some of the more popular Greek and Roman myths.

In the first semester, you will study Roman geography, architecture, life and history plus learn about noun functions, number, gender and person, verbs and modifiers.

In the second semester, you will look at heroes and the Trojan War plus verb tenses and moods, noun cases, pronouns and prepositions. You will also do more in-depth translations.

Latin 2

Semester One: Latin II is the continuation of Latin grammar and a deeper study of Roman Mythology and history. The grammar in Semester One consists of a lot of review from Latin I with expanding use of declensions, adjectives, adverbs, and the 4th and 5th declension of nouns Reflexive, Demonstrative and Interrogative pronouns, numerals and conjunctions. These skills will be used to translate longer Latin texts to English that require more knowledge of grammar rather than just vocabulary recall. The culture part of the course is an in-depth study of the following: in Semester One, you will look at Jason and the Argonauts, Heroes, Roman Entertainment, The Odyssey, and Julius Caesar. In Semester Two, you will study enclitics, types of ablatives, participles, the Ablative Absolute, Indirect Statements, and impersonal verbs among other constructions. Translation becomes more intense and challenging. In culture, you will examine the Underworld, Antony and Cleopatra, Caesar Augustus, the Punic Wars and Mythology and Roman History in Hollywood. Discussion boards will be part of this course in the second semester.

Latin 3

Welcome to our world of Latin authors. Throughout the year, you will translate and learn about some of the brightest minds of the Classical World. Through the literature of these authors you will learn more about the culture and history of the fabulous Romans. In the first semester, you will meet the great Julius Caesar and learn first hand about his Gallic campaigns. Through the letters of Pliny the Younger, you will get a first hand account of the eruption of Vesuvius. The grammar in the first semester will focus on various forms of the subjunctive mood.

Your journey into famous Roman authors will continue in the second semester where you will meet the great orator, Cicero. The poets Martial, Catullus and Ovid will also share their works with you. Our special guest author will be the greatest of the Roman authors, Publius Vergilius Naso. The grammar will focus on stylistic devices and scansion of poetry.

Mandarin Chinese 1

This is a beginning level course that will introduce the student to a variety of areas of Mandarin Chinese (simplified). In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories.

Mandarin Chinese 2

This course is a continuation of a beginning level course that will introduce the student to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Daily Routine, Animals, Hobbies, The Body and Descriptions), students learn to express themselves using an ever increasing vocabulary, present-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories. Prerequisite: Chinese I.

AP Spanish

In the AP Spanish Language course, students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. As the equivalent of a college-level language course, AP Spanish Language prepares students for the AP Exam and for further study of Spanish language, culture, or literature.

AP French

AP French Language students apply their French grammar and vocabulary knowledge and their listening, reading, speaking, and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write complicated compositions, and comprehend native speakers. The equivalent of a college-level language course, AP French Language prepares students for the AP Exam and for further study of French language, culture, and literature.