

Course Descriptions

FULL CREDIT Please note that Full Credit courses can be taken as a Half Credit course.

Advanced Placement

AP Biology A/B AP Biology is taught at the same level as a first-year college biology class. In this course, the student will develop a framework for biology and gain a deeper understanding of science as a process. Some of the major themes throughout this course include diversity of organisms, the structure and function of plants and animals, population dynamics, and global issues with ecology.

This course adheres closely to the College Board standards for AP Biology and will prepare the student to take the AP Biology Exam.

AP Calculus AB A/B In the first half of the course, the student is introduced to limits, differentiation, and applications of differentiation. The student will find and evaluate finite and infinite limits graphically, numerically, and analytically. The student will find derivatives using a variety of methods including the chain rule and implicit differentiation. Then the student will use the first derivative test and the second derivative test to analyze and sketch functions. Finally, the student will find derivatives using a variety of methods including substitution.

In the second half of the course, the student is introduced to integration of functions, differential equations, and applications of integration. The student will calculate antiderivatives using a variety of methods including substitution. The student will evaluate integrals using a variety of methods including numerical integration. Then the student will understand and apply Riemann sums, definite integrals, and the Fundamental Theorem of Calculus. In particular, the student will differentiate and integrate logarithmic, exponential, and inverse trigonometric functions. The student will solve simple differential equations, which can be solved by separation of variables, and use the calculations to solve applied problems. The student will use integration to determine the area between two curves, volume, and surface area. Finally, the student will apply integration to determine work, center of mass, and fluid force.

The use of a graphing calculator is considered an integral part of the course and the student will use a graphing calculator throughout this course.

AP Calculus BC A/B AP Calculus BC is an extension of Calculus AB. The course emphasizes broad concepts and applicable methods. Students will describe and analyze functions, limits, and graphs, calculate and apply derivatives, interpret and apply integrals, and study polynomial approximations and series. Students must take the Advanced Placement Exam in order to receive Advanced Placement credit. Students who do not take the AP® Exam will be awarded Honors level credit.

AP Computer Science A/B The AP® Computer Science course is equivalent to the first semester of a college level computer science course. The course involves developing the skills to write programs or part of programs to correctly solve specific problems. AP Computer Science also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course.

AP English Language and Composition A/B The AP English Language and Composition course will provide the high school student with college level instruction in studying and writing various kinds of analytic or persuasive essays on literary and nonliterary topics in language, rhetoric, and expository writing. The student will become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. Both the student's reading and writing should make others aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way writing conventions and language contribute to effectiveness in writing. This course will effectively prepare the student for the AP exam by enabling him or her to read, comprehend, and write about complex texts, while developing further communication skills on a college level.

AP English Literature and Composition A/B For a year, the student will participate in an AP upscale dining experience in the AP Literature and Composition course. The student will act as a food critic of exquisite literary cuisine. Menu items include reading, analyzing, writing, rewriting, and discussing creations by the master chefs, renowned authors. With intensive concentration on composition skills and on authors' narrative techniques, this dining experience equips the student with recipes for success in college, in a career, and on the AP exam.

AP Human Geography A/B This course is designed to provide college-level instruction on the patterns and processes that impact the way humans understand, use, and change Earth's surface. The student will use geographic models, methods, and tools to examine human social organization and its effect on the world. The student will also use maps and geographical data to examine spatial patterns and analyze the changing interconnections among people and places. In this course, the student will also study the systematic patterns and processes that have shaped the way humans understand, use, and alter Earth's surface. In addition, the student will employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. The student will also learn about the methods and tools geographers use in their science and practice.

AP Spanish Language A/B The main objective of the AP Spanish Language course is to develop the student's interpersonal communication skills in Spanish and to prepare the student for the AP Language examination. In this course, the student will develop a strong command of the Spanish language with proficiency in integrating language skills and synthesizing written and aural materials, the formal writing process, extensive interpersonal and presentational speaking and writing practice, and aural comprehension skills through quality, authentic, and level-appropriate audio and video recordings. This objective is achieved through highly engaging course content and interactive simulations, which gives the student ample opportunities throughout the course to integrate reading, writing, and speaking.

The student will be exposed to literature, historical, and current events of Spanish-speaking countries through authentic newspapers and magazines, music, movie, radio and television productions, literary texts, and virtual visits online.

AP Statistics A/B In this course, the student will become familiar with the vocabulary, method, and meaning in the statistics that exist in the world. This is an applied course in which the student will actively construct his own understanding of the methods, interpretation, communication, and application of statistics. Each unit is framed by enduring understandings and essential questions designed to allow the student a deep understanding of the concepts at hand rather than memorization and emulation.

The student will also complete several performance tasks throughout the year consisting of relevant, open-ended tasks requiring the student to connect multiple statistical topics together. The TI-83+/84 OR 89 calculator and computers will be used to explore the world of data and the patterns which can be found by analyzing this information as well as

statistical relationships. General topics of study include exploring data, planning and design of a study, anticipating patterns, and statistical inference.

AP U.S. History A/B This course covers all of the material outlined by the College Board in order to prepare the student to pass the AP U.S. History exam. By the end of the course, the student will have the following skills including demonstrating comprehension of a broad body of historical knowledge, expressing ideas clearly in writing, interpreting and applying data from original documents, identifying underrepresented historical viewpoints, writing to persuade with evidence, and comparing and contrasting alternate interpretations of a historical figure, event, or trend. In the first half of the course, the student will explore the following concepts: exploration and colonial America, colonial society, the concurrent rise of nationalism and sectionalism, the era of Andrew Jackson, emergence of America's literary, philosophic, and religious movements, and the Civil War. In the second half of the course, the student will explore the following concepts: the industrialization during the Progressive Era, World War I, life during the roaring twenties, the Great Depression, World War II, the Cold War era including the Vietnam War and the civil rights movement, and finally the student will explore America from the 1990's to present day.

Language Arts

CCSS English II A/B In the first half of the course, the student will take an in-depth look at selections from world literature, including well-known works from American and British literature as well as works from other cultures. In reading these diverse selections, the student will gain a thorough understanding of fiction and nonfiction genres, including short stories, essays, and speeches. The student will also read John Steinbeck's *Of Mice and Men* and Chinua Achebe's *Things Fall Apart*. These selections teach the student to understand longer works of literature in their historical and literary context. Writing instruction focuses on analytical and expository writing but also provides opportunities for the student to write creatively. Throughout the course, the student expands his or her vocabulary through reading. Mastery of critical vocabulary and grammar skills helps the student become a more thoughtful and effective reader and writer.

In the second half of the course, the student will encounter archetypal characters and conflicts that are universal in world literature. The course provides insights and understanding in the behavior of communities, illustrated in works such as *Lord of the Flies* and Elie Wiesel's *Night*. The student will explore the concepts of irony and existentialism, and continue to develop strong writing skills. He will explore our need to develop insights

and understanding of how we can all live together in peace, sharing our common stories and respecting our differences.

CCSS English III A/B In the first half of the course, the student will focus on the literary movements that comprise American literature, and trace the chronology of national literature from the early American and colonial period through the periods of Realism and Regionalism. In reading these diverse selections, the student will gain a thorough understanding of fiction, including short stories, poetry and drama; as well as nonfiction genres, including the oral tradition, seminal historical documents, and speeches. The student will also read Jerome Lawrence and Robert E. Lee's play *The Night Thoreau Spent in Jail*. Arthur Miller's play *The Crucible* may be read instead of *The Night Thoreau Spent in Jail*. In reading these American plays and composing a dramatic scene, the student will understand drama in its historical and literary context. In the second half of the course, the student will focus on the literary movements that comprise American literature, and trace the chronology of national literature from the Modernist through the Contemporary period. In reading and responding to these diverse literature selections, the student will gain a thorough understanding of a myriad of fiction and nonfiction genres, including short stories, essays, poetry, drama, memoirs, and autobiographies. The student will also read F. Scott Fitzgerald's novel *The Great Gatsby*. Ernest Hemingway's novella *The Old Man and the Sea* may be read instead of *The Great Gatsby*. In reading these American literature selections, the student will understand longer works of literature in their historical and literary context.

Writing instruction guides the student through the process of composing a descriptive essay and modeling the style of an American author. Throughout the course, the student expands his or her vocabulary in context. The mastery of both critical vocabulary and grammar skills helps the student become a more thoughtful and effective reader and writer.

CCSS English IV A/B In the first half of the course, the student will take an in-depth look at early British literature from 449 to 1798 and will examine literary forms including the epic, poetry, drama, and the essay. The student will also read longer selections of literature that are representative of the historical setting, including Shakespeare's *Macbeth*. The student will read to gain an understanding and appreciation of the historical context from which the literature arose. Vocabulary development and mastery of critical grammar and communication skills prepare the student for writing creative narratives, and expository and persuasive essays.

In the second half of the course, the student continues to explore a variety of literature selections from British literature, including well-known works. The student will learn strategies for reading lyric poetry and study the characteristics of reflective essays. The student will analyze poetry, short stories, and essays from the Romantic Period, Victorian Age, and Modern Era and will determine how the historical context affected the thematic material and writing style from each era. Writing instruction focuses on literary analysis, including in-depth instruction in the process of writing a research paper. This project teaches the student to critically analyze primary and secondary sources and to effectively support his or her ideas with information gathered from outside sources.

Math

Calculus A/B In the first half of the course, the student is introduced to limits, differentiation, and applications of differentiation. The student will find and evaluate finite and infinite limits graphically, numerically, and analytically. The student will find derivatives using a variety of methods including the chain rule and implicit differentiation. Then the student will use the first derivative test and the second derivative test to analyze and sketch functions. Finally, the student will find derivatives using a variety of methods including substitution.

In the second half of the course, the student is introduced to integration of functions, differential equations, and applications of integration. The student will calculate antiderivatives using a variety of methods including substitution. The student will evaluate integrals using a variety of methods including numerical integration. Then the student will understand and apply Riemann sums, definite integrals, and the Fundamental Theorem of Calculus. In particular, the student will differentiate and integrate logarithmic, exponential, and inverse trigonometric functions. The student will solve simple differential equations, which can be solved by separation of variables, and use the calculations to solve applied problems. The student will use integration to determine the area between two curves, volume, and surface area. Finally, the student will apply integration to determine work, center of mass, and fluid force.

The use of a graphing calculator is considered an integral part of the course and the student will use a graphing calculator throughout this course.

CCSS Algebra I A/B Algebra I is the foundation! The skills the student will acquire in this course contain the basic knowledge he or she will need for all high school math courses. This material is important, but everyone can do it, and everyone can have a good time solving the hundreds of real-world problems that are answered with algebra. Each unit in

this course is presented in a step-by-step way right on the student's computer; the student won't have to stare at the board from the back of a classroom. There are even hands-on labs to make the numbers, graphs, and equations more real. It's all tied to real-world applications such as sports, travel, business, and health. This course is designed to give the student the skills and strategies for solving all kinds of mathematical problems. It will also give the student the confidence to handle every possible aspect of high school math.

CCSS Algebra II A/B The student will explore the exciting world of Algebra II! This course will allow the student to learn while having fun. Interactive examples help guide the student's journey through customized feedback and praise. Concepts are applied to everyday occurrences such as earthquakes, stadium seating, and purchasing movie tickets. Opportunities are provided for the student to work with peers on specific lessons. Through the use of technology, the student will investigate the effects of an equation on its graph. Starting with a review of basic algebra, the student will travel through systems of equations, factoring, and radical and quadratic equations in the first segment. In the second segment, the student will venture into the realms of polynomial functions, rational equations, and exponential and logarithmic relations, before landing at sequences and series. Very impressive! The student will be guided along this journey by the teacher, who will provide the student with timely advice.

Algebra III A/B In the first half of the course, the student will continue to study higher-level mathematics. The student will begin by reviewing the fundamental concepts in algebra that serve as building blocks for an in-depth study of functions and graphs. Next, the student will explore and analyze polynomial, rational, radical, exponential, logarithmic, and piecewise functions. The student will further delve into quadratics with a unit on the conic sections. Finally, the student will explore sequences and series.

A content thread throughout the course focuses on ways mathematics is applied in the real world and is essential to everyday life. These real-world connections, combined with an emphasis on mathematical reasoning and critical thinking skills, prepare the student for future college and career opportunities.

In the second half of the course, the student will continue to study higher-level mathematics. The student will expand knowledge of trigonometric concepts, including trigonometric functions and identities, before being introduced to polar coordinates and equations. Next, the student will explore vectors and parametric equations. Finally, the student will examine calculus concepts including limits and derivatives in preparation for studying calculus.

A content thread throughout the course focuses on ways mathematics is applied in the real world and is essential to everyday life. These real-world connections, combined with an emphasis on mathematical reasoning and critical thinking skills, prepare the student for future college and career opportunities.

CCSS Geometry A/B In the first half of the course, the student will use virtual manipulatives and tools to explore the principles of logic, proofs, and constructions. The student will use the midpoint and distance formulas to solve a variety of problems involving the coordinate plane. The student will also study parallel and perpendicular lines, including special angle pairs. The student will explore transformations in the coordinate plane and apply them to other geometrical concepts. This course will conclude with the use of triangle concepts to find angle measures, prove triangles congruent, and discover relationships within one and two triangles. Throughout the course, the student will learn concepts through a variety of instructional strategies, solve real-world applications, and complete an assortment of activities.

In the second half of the course, the student will use virtual manipulatives and tools to explore area, surface area, and volume, and study the concept of similarity as it relates to various figures. The student will begin with an exploration of polygons, with a focus on different types of quadrilaterals. The student will use Trigonometry and right triangle concepts, such as 30-60-90, 45-45-90, and the Pythagorean Theorem to solve problems. The student will learn to use formulas to find the areas of a variety of two-dimensional shapes. This course concludes with an exploration of concepts related to circles, such as arcs, angles, and intersecting lines such as chords, secants, and tangents. Throughout the course, the student will learn concepts through a variety of instructional strategies, solve real-world applications, and complete an assortment of activities.

Statistics A/B In this course, the student will become familiar with the vocabulary, method, and meaning in the statistics, which exist in the world around them. This is an applied course in which students actively construct their own understanding of the methods, interpretation, communication, and application of statistics. Each unit is framed by enduring understandings and essential questions designed to allow students a deep understanding of the concepts at hand rather than memorization and emulation. The TI-83+/84 OR 89 calculator and computers will be used to explore the world of data and the patterns which can be found by analyzing this information as well as statistical relationships. General topics of study include exploring data, planning and design of a study, and anticipating patterns.

Science

Biology I A/B In this course, the student will study the science of life. The student will explore the idea that living things are extremely diverse in form, yet are unified by certain core characteristics that they all share. In learning about these core characteristics, the student will be able to critically evaluate data and information related to biological problems, connect many ideas to the student's own life, and see the world in a new way.

Chemistry A/B In the first half of the course, the student will explore the fundamental concepts of chemistry as he or she engages in reading and responding exercises, hands-on and virtual lab experiments, and interdisciplinary problem-solving activities. The student will build on prior knowledge to learn how to model the structure of an atom, analyze the periodic table of elements, represent and interpret reactions between atoms and molecules, and perform calculations to solve problems in chemistry. The course provides many opportunities for the student to apply these concepts to real-world situations.

In the second half of the course, the student will explore the fundamental concepts of chemistry as he or she engages in reading and responding exercises, hands-on and virtual lab experiments, and interdisciplinary problem-solving activities. Throughout the course the student will analyze the nature of solids, liquids, and gases, investigate the properties of solutions, describe and calculate the energies of different types of reactions, begin to explore electrochemistry, and continue to examine the fundamental concepts of nuclear and organic chemistry. The course provides many opportunities for the student to apply these concepts to real-world situations.

Earth and Space Science A/B Why did early explorers risk their lives to reach the North Pole? Why does Earth look so beautiful when seen from space? What is really down at the bottom of the ocean? Discovering new things about Earth has been the dream of scientists and explorers for centuries. Today, it is your turn to continue that journey of discovery.

Earth and Space Science is a laboratory course focusing on the study of space and the geologic and atmospheric forces that shape the world. Through experimentation and investigation, the student will explore Earth cycles including the geosphere, hydrosphere, cryosphere, atmosphere, and the carbon cycle. The student will learn about scientific inquiry, geologic time, space exploration, the solar system, and the universe. The student will use web 2.0 tools, interactive experiences, higher-order thinking, collaborative projects, and real-world application through labs and a variety of assessments. Upon completion of the course, the student will have a clear understanding of the dynamic forces at work in the surrounding world, becoming better caretakers of planet Earth.

Physical Science A/B The first half of the course is designed to provide students with an understanding of essential chemistry concepts. The course extends the student's prior knowledge of the properties, states, and structure of matter, explores the dynamics of chemical bonding and reactions, and introduces the student to nuclear chemistry. Physical Science A includes hands-on explorations and virtual simulations to enhance the student's comprehension of key concepts. The second half of the course is designed to provide the student with an understanding of essential physics and earth science concepts. The physics-focused lessons cover motion, force, work, power, energy, wave mechanics, electricity, magnetism, and the electromagnetic spectrum. Earth science topics include an exploration of the Earth, sun, and planets. Physical Science B includes hands-on explorations and virtual simulations to enhance the student's comprehension of key concepts.

Physics A/B The goal of physics is to describe the physical world using a small number of basic assumptions, concepts, and equations. In this course, emphasis is placed on relating physics to the everyday world. The student will explore the concepts involved with motion in one- and two-dimensions, forces, work and energy, momentum and collisions, circular motion and gravitation. The students will recognize the importance of the laws of thermodynamics. Approximately 40 percent of the course involves virtual laboratory investigations. Some activities will require ordinary household items such as rulers, meter sticks, balls or marbles, string, paper, and pencils. The first half of the course focuses on understanding motion. The student will learn kinematic equations and apply them to various situations. The student will explore forces, work, and energy and apply these concepts in the special case of circular motion. Heat and the laws of thermodynamics are covered.

The second half of the course focuses on waves, in particular sound and light. Then the course moves to understanding electricity and magnetism and the relationship between the two. It concludes with a basic exploration of atomic physics.

Social Studies

American Government (U.S. Government) A/B In this course, the student will examine the basic rights and responsibilities of U.S. citizens and the foundations of American government. Glencoe's *United States Government: Democracy in Action* provides the basis for instruction. In this course students explore constitutional freedoms, citizen requirements, and aspects of American law. Students learn about ways to affect the government and study the influence of the media, political parties, and interest groups.

Students will also learn about local and state government structures and compare political systems and economies from around the world.

U.S. History from Post-Reconstruction to Present A/B The first half of this course will explore the growth of American society and the emergence of the United States as a world power. The course covers the significant developments in America's past from Reconstruction to World War I with a brief review of early settlement, colonization, and the development of America as an independent nation. The student will focus on American political, economic, and social history from a chronological point of view. Activities in this course are designed to develop the student's abilities to question, read, analyze, interpret, and evaluate different forms of information, as well as to communicate his or her ideas to others. Geography skills will be interwoven in the lessons, as the student makes connections between the evolution of America's geography and its historical impact.

The second half of the course will continue the study of American history, tracing the changes in American society from World War II through the present. This course will continue to follow the chronology of American political, economic, and social history. Every unit will provide practice with critical social studies skills, including analyzing primary sources, recognizing point of view, identifying cause and effect, evaluating different forms of information, and communicating ideas to others. Geography skills are interwoven in the lessons, as the student makes connections between the evolution of America's geography and its impact on historical events.

World History A/B Glencoe's *World History: Modern Times* provides the basis for instruction. In the first half of the course, students begin by exploring prehistory, focusing on the Stone and Bronze Ages. Students move on to learn about the early civilizations of Asia, the Middle East, and the Mediterranean basin, paying special attention to the civilizations of ancient Egypt, Greece, and Rome. The Middle Ages, Renaissance, and Reformation periods round out the course, throughout which students examine how historians work with ancient documents and both primary and secondary sources of information.

In the second half of the course, students will explore the social, political, and economic changes in the 19th and 20th centuries. Topics of study include the Industrial Revolution, armed revolutions, and independence movements throughout the world. The course focuses on the impact of nationalism and imperialism and explores the world wars. Students also study the modern era and explore topics such as technological advancements and globalization.

World Languages Please note: The World Languages courses require a headset and microphone which is compatible with the computer being used for the course. This equipment is not provided by Pearson.

French I A/B The goal of this course is to give the student basic listening, speaking, reading, and writing skills through interesting and engaging activities. This course is organized into five topics including greetings, calendar, weather, time, and colors. The student will learn to talk about himself or herself and other people, describe his or her surroundings, and use numbers for dates and times. The student will be introduced to regular verbs in the present tense and will practice simple grammatical structures in innovative and interesting ways with a variety of learning styles in mind. Culture is presented throughout the course to help the student understand the context of the language and the perspectives of the French-speaking world.

French II A/B This course builds on the skills the student learned in French I. In this course, the student will be introduced to a variety of areas of language learning. The student will learn listening, speaking, reading, and writing skills through a variety of activities. This course is organized into five topics: daily routine, animals, hobbies, the body, and descriptions. Throughout this course, the student will learn to express himself or herself 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. Elements of the French-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

French III A/B French III is a continuation of the first two years of French instruction. The student will continue to improve his or her listening, speaking, reading, and writing skills through a variety of activities. The course is organized into five topics: feelings, transportation, work, countries, and the future. Throughout this course, the student will build on his or her previous French knowledge. The student will learn additional vocabulary, verb tenses, and grammatical structures that are appropriate to his or her level. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Exposure to the culture of France and other French-speaking countries can be found throughout the course in order to help the student understand French, which is a dynamic language that is used by millions of people throughout the world.

French IV A/B French IV continues to build on the skills the student has mastered in his or her previous French courses. The student will continue to sharpen his or her listening,

speaking, reading, and writing skills through a variety of activities. Throughout the five topics in the course, the student will learn to express himself or herself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, future-tense verbs, conditional-tense verbs, subjunctive mood, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. The course is rich in authentic reading material and native-speaker recordings and presentations to enrich culture, grammar, and vocabulary presentations. Elements of the French-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

German I A/B This is 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 a variety of activities. Throughout the five units, or themes, of material (greetings, the date, weather, time, and colors), the student will learn to express himself or herself 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 presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

In the second half of the course, the student will be introduced to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading, and writing skills through a variety of activities. Throughout the five units, or themes, of material (city, family, food, leisure time, and school and chores), the student will learn to express himself or herself 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 presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

German II A/B The first half of the course will introduce the student to a variety of areas of language learning. In this course, the student will continue to learn listening, speaking, reading, and writing skills through a variety of activities. Throughout the five units, or themes, of material (daily routine, animals, pastimes, the body, and descriptions), the student will learn to express himself or herself using an ever-increasing vocabulary, past-tense verbs, demonstrative articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is

presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

In the second half of the course, the student will continue to learn listening, speaking, reading, and writing skills through a variety of activities. Throughout the five units, or themes, of material (house, shopping, leisure, travel destinations, and flying), the student will learn to express himself or herself using an ever-increasing vocabulary, past-tense verbs, dative expressions, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

German III A/B In the first half of the course, the student will continue to learn and practice successful communication through speaking, writing, reading, and listening. Throughout the five units, or themes, of material (Die Gefühle, Der Verkehr, Bei der Arbeit, Land und Leute, and Die Zukunft), the student will learn to express himself or herself 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 presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

In the second half of the course, the student will continue to learn and practice successful communication through speaking, writing, reading, and listening. This course presents material according to a specific theme, and the student will learn to express himself or herself through a variety of activities using his or her ever-increasing vocabulary and grammar knowledge. Culture is presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

Latin I A/B The student will be building a Roman Information Highway—the Via Latina. The student will be the builder, or aedificator. The building blocks for this Roman road will include the following: 1) laying the foundation of bedrock comprised of Latin grammatical structures; 2) cementing the layers of rock together with the mortar—new Latin vocabulary; 3) fitting the top layer of cobblestones together for a smooth translation into English of Latin stories and sentences; 4) connecting your new road to other paths through words and customs derived from Latin and the Romans; and finally, 5) stopping at the rest stops along the road to learn more about Roman culture and daily life.

In the first half of the course, Unit 1 covers grammar basics, the nominative and accusative cases, first declension, first conjugation, the present active tense and the present tense of

sum. Unit 2 covers the genitive, dative, and ablative cases, and the imperfect and future tenses of sum. Unit 3 covers second declension nouns, ablative of means, vocatives, imperatives, the perfect active system, and the perfect system of sum. Unit 4 covers second conjugation, infinitives, and first and second declension adjectives. Unit 4 also contains both parts of the Semester 1 Exam. Numerous cultural lessons are scattered throughout each unit.

In the second half of the course, Unit 1 covers the present passive system, the ablative of agent, -er adjectives, questions, and adverbs. Unit 2 covers the perfect passive system and appositive. Unit 3 covers third conjugation and Latin idioms. Unit 4 covers fourth conjugation and personal pronouns. Unit 5 contains a comprehensive review of the entire course, as well as both parts of the Semester 2 Exam. Numerous cultural lessons are scattered throughout each unit.

Latin II A/B The student will continue his or her journey to the time of the ancient Romans, but this time, the student will be a film student in the Roman movie, *An Epic of Great Proportion*. The student will be the director, and his or her script will include visits with some of the men who made Rome great. The student will learn about the Roman government and how Rome grew to rule most of the known world. This epic movie will also take the student back to the Trojan War where he will accompany the Greeks on a great adventure.

In Unit 1 of the first half of the course, the student will review first year grammar, the third declension, and relative pronouns. Then the student will also learn about a classical hero, common Latin roots and derivatives, epic conventions, mottoes, and abbreviation. Unit 2 continues with more information about the third declension and also Sum and Possum. The student will learn about the stories of Cyclops, Circe, and the Sirens. Unit 3 builds on what was learned in Unit 2. The student will continue with more third declension work along with further readings from *The Odyssey* and more on derivatives. The study of *The Odyssey* comes to an end with "Ulixes ad Ithacam."

In Unit 4, the student will study pronouns and the fourth and fifth declensions and begin his or her instruction on Roman history, learning about Romulus and Remus, and the Kings of Rome. The student will also study the ablative absolute and future participles.

The student will continue his or her journey to the time of the ancient Romans, but this time, the student will be a film student in the Roman movie, *An Epic of Great Proportion*. The student will be the director, and the script will include visits with some of the men who made Rome great. The student will learn about the Roman government and how Rome

grew to rule most of the known world. This epic movie will also take him back to the Trojan War where the student will accompany the Greeks on a great adventure.

In Unit 1 of the second half of the course, the student will learn about participles and ablative absolutes. Then the student will continue his or her discussion of Roman history focusing on the beginnings of the Republic. The student will also review quotes and continue working on derivatives.

Unit 2 has a considerable amount of culture and history. Much happened during the Republic! Caesar; the Roman army; famous battles, mottoes, and abbreviations pertinent to the times; Cincinnatus; and Regulus are covered.

Unit 3 contains the study of the empire. The student will look at various emperors and the factors that caused the demise of the empire. This unit is an anomaly since it has no translation story in it. The reason is that it contains the hardest grammar concept in the course, which is indirect statement. A heavy dose of history in this unit gives the student a break from the heavy dose of grammar.

In Unit 4, the student will apply the mythological stories to his or her life. Unit 5 is one of review. There are no assignments. The student will find appendix links, rollovers, concentration games, practice sites, self-drill opportunities, and matching games to review the course material and to prepare for the final exams. The student may take as much time as necessary with these and use them as often as needed before taking the exams in Unit 4.

Latin III A/B The design of Latin III is the Library of Celsus at Ephesus, Turkey. Since this is a survey course of Latin literature, each unit is a Caesar reading room, a Cicero reading room, etc. The student will check in at the reading room when he finds the "ask the librarian" on the oral assessments and discussions regarding content and style of each author. There is also a *liber mensis*, or book of the month, where the student will read additional works by the author or learn other information connected with the chosen author. The *ex bibliotheca* assignments will take the student away from the computer, and the interlibrary loan assignments will require the student to study something connected to the author (e.g., the region of Provence, France, in the Caesar unit) or to exchange thoughts with classmates in the discussion area.

The first half of the course is the prose of Caesar and Cicero. In Cicero, the student will look at the figures of speech. The student will also work on his or her clarity of writing and defense of his or her arguments. The student will expect this course to demonstrate why a

classic is a classic, whether in a foreign language or in English, and to provide tools to appreciate the author's talent and to understand why he is enjoying a particular novel.

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The second half of the course is the poetry of Ovid, Catullus, and Vergil. There is an emphasis on the craft of writing using figures of speech, scansion, and SWIMTAG. The student will also work on his or her clarity of writing and defense of arguments. This course will demonstrate to the student why a classic is a classic, whether in a foreign language or in English, and to provide tools to appreciate the author's talent and to understand why he is enjoying a particular novel.

Spanish I A/B Students cover basic vocabulary, grammar, spelling, and punctuation to build a solid foundation for further study. Assignments include engaging in simple conversation, writing paragraphs, and listening to Spanish dialogue. Students also study the history and culture of Spanish-speaking peoples.

Spanish II A/B As they engage in more advanced conversations, write paragraphs and stories, and translate to and from Spanish, students improve their vocabulary and grammar. Intense listening comprehension exercises aid in understanding more complex thoughts and subjects.

Spanish III A/B Spanish III is a continuation of the first two years of Spanish instruction. The student will continue to sharpen his or her listening, speaking, reading, and writing skills through a variety of activities. This course is organized into five topics: feelings, transportation, work, countries, and the future. The student will learn to express himself or herself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, articles, and adjectives. Elements of the Spanish-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

In the second half of the course, the student will learn to express himself or herself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, future-tense verbs, conditional-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Elements of the Spanish-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

Spanish IV A/B Spanish IV A continues to build on the skills the student has mastered in his or her previous Spanish courses. The student will continue to sharpen his or her listening, speaking, reading, and writing skills through a variety of activities. Throughout the five topics covered in this course, the student will learn to express himself or herself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Elements of the Spanish-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

In the second half of the course, the student will learn to express himself or herself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, future-tense verbs, conditional-tense verbs, the subjunctive, the present perfect tense, the past perfect tense, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Elements of the Spanish-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

Technology

Technology Foundations A/B In this course, the student will gain an understanding of computing and common features of popular applications. The student will practice and apply computer skills needed in today's academic and business environments including word processing, spreadsheet, and presentation applications. Skills needed for working in an Internet or networked environment are also covered. This course prepares the student for the three Internet and Computing Core Certification (IC3) tests.

Web Page Design A/B The student is introduced to website design and development by learning the basic website design principles. Topics include networking, audience analysis, internet security, project management, and website navigation. Students will apply the principles to design and evaluate their own websites and the sites of others. Students will learn development languages such HTML and CSS. Throughout the course, students will

complete practice activities, homework assignments and projects that allow them to apply the skills they have learned.

HALF CREDIT

Advanced Placement

AP Government and Politics – United States This course will survey the complex subjects of the U.S. government and politics. The student will analyze, in some detail, the processes and institutions (both formal and informal) through which the political system functions and policy decisions are made. This analysis will include the constitutional structure of Government, participatory politics, the formal institutions of power, the extra constitutional influences on those institutions, and public policy and individual rights and liberties.

AP Macroeconomics AP Macroeconomics presents the principles of economics that apply to an economic system as a whole. Students will distinguish between absolute and comparative advantage, explore the way the tools of supply and demand are used to analyze how a free-market economy works, and study the concept of a business cycle. In addition, students will study and analyze economic fluctuations, the dynamics of unemployment, and inflation.

AP Microeconomics Microeconomics emphasizes how individuals make choices with limited resources. The student 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. The student studies the stock market as an investment option and traces various stocks through the semester using the Wall Street Journal and the Internet as resources.

AP Psychology AP Psychology provides an overview of current psychological research methods and theories. The students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. The student will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, the student will also investigate relevant concepts like study skills and information retention. The equivalent of a 100-level college survey course, AP Psychology prepares the student for the AP Exam and for further studies in psychology and life sciences.

Career Technical

Human Anatomy and Physiology In this course, the student will learn about anatomical structures and physiology of the human body. Body systems are discussed in terms of how each participates in homeostasis of the body. Students learn about selected major pathologies, including causes, symptoms, diagnostic procedures, and treatments, as well as common changes that occur through the life span. By the end of the course the student will be able to:

- Describe the organization of the human body
- Explain the contribution that each body system makes to homeostasis of the body
- Identify the major anatomical structures and the purposes of each body system
- Explain the basic physiological processes in each of the body systems
- Describe selected human diseases in terms of definition, cause, signs and symptoms, diagnostic procedures
- Describe common issues or changes that occur in each body system throughout the lifespan

Sociology In this course, you will examine the sociological processes that underlie everyday life, focusing on globalization, cultural diversity, critical thinking, new technology, and the growing influence of mass media. By the end of the course, you will be able to:

- Examine socialization and factors that affect socialization and social interactions
- Analyze the history of politics, globalization, and the effects of transformation
- Examine diversity in U.S. families and study trends in marriages, remarriages, and divorce
- Examine issues in education and factors that affect the educational system in the United States
- Examine urbanization, evolution of various cities, and growth in population in the United States and the world

- Examine the effects of growth and technology on social interactions and the environment

Health and PE

Physical Education In this course, the student will use previously acquired skills in a wide range of elective activities. The course places priority on self-motivated physical activities that the student can participate in now and later in life, and incorporates skill competencies, written assignments, and class evaluations into some of the units. The student will be expected to show proficiency in the activities that are important for his personal development at the appropriate age. The student's physical fitness level will be assessed and recorded. As an online learner, the student will utilize relevant Web sites and streaming videos provided in the lessons.

Science

Environmental Science This course offers the student an opportunity to gain an understanding of the concepts fundamental to environmental science. These concepts are keys that will help unlock our abilities to safeguard resources, manage waste, reduce pollution, protect the food chain, adapt to changing fuel needs, and champion our planet on all levels – from the conscientious management of the smallest household to the protection of the largest biospheres.

Social Studies

Economics Economics provides an introduction to the concepts of both macro- and microeconomics. Prentice Hall's *Economics: Principles in Action* provides the basis for instruction. Students explore topics such as scarcity, opportunity cost, and supply and demand. The course provides an overview of the free market and centrally planned economies, as well as how government influences economics. Students will also explore business and labor, money, banking, and finance. Economics introduces students to economic growth, development, and challenges in both the U.S. and the global economies.

Introduction to World Geography Geography develops students' comprehension of the geographical concepts and skills needed to acquire information and systematically apply decision-making processes to real-life situations. Students will acquire an understanding of multiculturalism and the relationships between people and their environment. Geography

explores the world's cultural regions by examining location, physical characteristics, demographics, historical changes, economic activity, and land use.

Psychology This course begins with a historical review of how man has sought to explain human behavior from ancient times to today. The student will learn about the research methods that are applied to the field and how the scientific method of inquiry moved psychology from quaint parlor tricks like hypnosis and mesmerism to serious inquiry that utilizes hard science to prove theories. The student will also learn about the amazing brain and will explore the workings of the normal brain. The student will then build upon this biological foundation to learn how the information that we take in through our senses is perceived and interpreted by the brain to form the mental images of our daily experiences in the world. The course also provides a survey of a human's life span from birth to death. The student will learn about all of the major physical and psychological changes that mark the development of a human's existence and a variety of theories that outline these processes. In the second part of the course, students investigate the brain personality theories in order to understand the complex mental processes of learning, memory, thought, and language. Mental health issues, ranging from stress to disorders, are discussed, and the last unit reviews various methods of therapy.

Technology

Web Page Design II Students learn basic website design principles and development languages such as HTML and CSS. Topics include networking, audience, analysis, Internet security, project management, and website navigation. Students utilize the programs GIMP for image editing and Nvu for web development.