

Lakehill Preparatory School
1971 - 2010
39 Years of Excellence

Academic Overview

At Lakehill Preparatory School, we take the word *preparatory* in our name very seriously. From kindergarten through high school, our curriculum is designed to instill in our students the importance of a well-rounded education. Throughout a student's academic career, we build on an educational program that achieves our goal of enabling graduates to attend the finest, most rigorous universities that best fit their needs and desires.

Lakehill challenges highly motivated students by providing them with a robust academic curriculum and by cultivating their unique talents. Whether these talents are in the writing lab, on the athletic field, in math, science, or the arts, every child is encouraged to strive for more and to discover new and exciting abilities along the way.

Lakehill is celebrated for the breadth of activities it provides. From kindergarten through high school, our extensive programs expose every child to new experiences. Students are encouraged to participate and challenged to excel where they may not have thought possible.

Lakehill is accredited by the Independent School Association of the Southwest (ISAS) and the Southern Association of Colleges and Schools (SACS).

ACADEMIC REQUIREMENTS

Lakehill Preparatory School maintains a stimulating, challenging, and fully accredited college preparatory curriculum. The academic program provides broad training in the liberal arts and sciences and stresses independent thinking, writing, critical reading, discipline, and creativity.

Graduation Requirements

Upper School students must carry a minimum load of six credits per year including Physical Education. Students must complete a minimum of 26 credits to satisfy the requirements for graduation. The following courses are required for graduation:

Discipline

English	4 Credits
Mathematics	4 Credits
Science	4 Credits
Social Studies	4 Credits (2012)
Foreign Language	2 Credits
Computer Science	.5 Credits
Fine Arts	1
Physical Education	4 Credits
Electives	2.5 Credits

Course Overview

English

- 9 Literary Genre and Composition (English I)
- 10 American Literature and Composition (English II)
- 11 British Literature and Composition (English III)
- 12 World Literature and Composition (English IV) *or* AP World Literature and Composition

Mathematics

Sequence A

- 8 Algebra I
- 9 Geometry
- 10 Algebra II
- 11 Pre-Calculus
- 12 Statistics *or* AP Statistics, AP Calculus AB

Sequence B

- 9 Algebra I
- 10 Geometry
- 11 Algebra II
- 12 Pre-Calculus *or* Statistics

Science

- 9 Biology
- 10 Environmental Science, Chemistry, Honors Chemistry
- 11/12 Chemistry, Honors Chemistry, Physics, Anatomy and Physiology, AP Biology, AP Environmental, AP Physics B

Social Studies

- 9 Modern American History from 1900
- 10 Modern World History
- 11/12 AP American History *or* AP European History, Psychology, Art History I, Art History II, Theater History, America in the Age of Rock and Roll
- 12 U.S. Government/Economics

Foreign Language

Two years of either French or Spanish are required. Students are strongly encouraged to take more. AP Spanish is offered in both Language and Literature and AP French is offered in Language and Composition.

Computer

One semester of Computer Programming or Computer Applications is required. It is strongly recommended that students take at least one additional computer course.

Fine Arts

Students are required to choose at least two Fine Arts electives from among the following: Music, Drama, Musical Theater, Music Theory, or Studio Art (Drawing, Painting, Sculpture, Graphic Art, or Print Making).

Physical Education

Students are required to take PE every year.

Electives

Electives vary from year to year and are announced prior to Spring Advising. Frequently taught electives include Art History, *Calumet* (literary magazine), Computer Programming II, Choir, Musical Theater, Introduction to Drama, Advanced Drama Studies, Creative Writing, and Yearbook.

Report Cards

Report Cards are issued every six weeks, with semester reports issued at the end of each semester. These reports are intended to communicate to students and parents areas of strength and weakness. If a child is experiencing difficulty in a specific subject, the teacher will be happy to offer assistance.

Grading Scale for Grades 9 – 12

A+	97-100	4.0
A	94-96	3.85
A-	90-93	3.7
B+	87-89	3.5
B	84-86	3.25
B-	80-83	3.0
C+	77-79	2.8
C	74-76	2.4
C-	70-73	2.0
D+	67-69	1.8
D	64-66	1.4
D-	60-63	1.0
F	Below 60	

Honor Roll

To qualify for the Headmaster's High Honor List, a student must receive an A in all courses. To earn Honor Roll status, a student must receive a B or above in all courses.

AP Courses

Students enrolling in an Advanced Placement course must receive written approval from the instructor during Advising Week. Only students maintaining A's and B's in their current coursework in that subject area should consider an AP Course. Advanced Placement courses are college-level courses, using college-level texts, and require a commitment of time and effort on the part of the student. National examinations are given in May to all students enrolled in AP classes. Students enrolled in Advanced Placement courses who have diagnosed learning differences with accompanying documentation from a physician and/or psychologist may apply to the College Board Counselor for permission to take the Advanced Placement examination with extended time. Payment for Advanced Placement exams occurs during August Registration.

Independent Study Courses

Students with special interests and talents may select an independent study elective by securing a faculty sponsor. The student and faculty sponsor will work together to develop the course content, sequence, and expectations. The student must write a proposal for the course, stating its purpose and the content to be covered. The proposal must then receive the written approval of the faculty sponsor, the Department Chair, and the Assistant Headmaster.

Transfer Credits

Students with special interests and talents are encouraged to pursue outside studies, keeping in mind that core educational requirements must be met within the confines of the course offerings at Lakehill. Exceptions are limited to transfer students who are unable to meet the requirements for graduation or placement, and these exceptions must meet with the approval of the school.

Cumulative Grade Point Average

The cumulative grade point average is calculated using semester grades. Grades for all high school courses except PE and non-academic electives (i.e., study hall, office aide) will be averaged into the GPA, including those courses that were repeated. Cumulative grade point averages will be rounded to the nearest one-hundredth.

Ranking

Lakehill does not rank; however, for Texas public institutions Lakehill will report the Top 10% or up to the Top 25% according to the university's admission policy in relation to Texas House Bill 588.

Valedictorian and Salutatorian

The Valedictorian will be the graduating senior who has the highest GPA for four years, excluding physical education. The Salutatorian will be the graduating senior who has the second highest GPA for four years, excluding physical education.

Students are eligible if they have attended Lakehill for more than one year. Students who have attended Lakehill for less than four years, but more than one year of high school will be eligible if their previous school is comparable to Lakehill in curriculum and accreditation.

Off-Campus Physical Education Requirements

To qualify for Off-Campus Physical Education, students must adhere to the following criteria:

- Student must fill out a Request for Off-Campus Physical Education form. The form is available in the main office.
- The form must be completed neatly in its entirety to be considered.
- Once approved, students will be issued an Off-Campus Physical Education Identification Card which must be presented to the school receptionist every afternoon before leaving campus.
- At the end of each six-week, students with approved off-campus privileges are required to meet with the Athletic Director to discuss the progress being made at Off-Campus Physical Education.
- While students who request Off-Campus Physical Education will not be issued a letter grade for off-campus PE, students will receive a completion grade. Furthermore, students will receive an Incomplete on their report card if they fail to meet with the Athletic Director at the end of each six weeks.
- Students receiving an incomplete in Physical Education may have their Off-Campus privileges revoked and or may not receive credit for Physical Education and therefore may jeopardize the Physical Education requirement for graduation.

ENGLISH DEPARTMENT

Required Courses

ENGLISH I - Literary Composition and Genre

Ninth-grade English exposes the student to a variety of texts, including contemporary masterpieces. Students will demonstrate their ability to analyze prose and poetry in several essays. A formal research paper using MLA documentation is also required. Grammar usage and composition skills are refined by teaching prescriptively from writing assignments. Vocabulary enrichment continues with a structured course of study, application in writing, and recognition in reading. Students are required to write continuously both in and out of class in a journal. Full year, 1 credit.

ENGLISH II - American Literature and Composition

Tenth-grade English emphasizes the full integration of composition and literature. Grammar and usage skills are refined and taught prescriptively from writing assignments, with greater critical emphasis on mastery in composition. The study of literature aims at an increased understanding of poetry and fiction through a chronological survey of the major periods of American literary history, from Colonial times to the present. The classics are emphasized. There will be several essays with an emphasis on the development of analytical writing skills. A formal research paper using MLA documentation is required. Vocabulary enrichment continues through regular study and application. Students are introduced to and drilled in the practice of ready-writing in preparation for AP and SAT writing requirements. Full year, 1 credit.

ENGLISH III - British Literature and Composition

Eleventh-grade English continues the emphasis on the full integration of composition and literature. Grammar and usage skills are refined and taught prescriptively from writing assignments, with greater critical emphasis on mastery in composition. There will be several essays with a continued emphasis on the development of analytical writing skills. The study of literature aims at an increased understanding of poetry and fiction through a chronological survey of the major periods of British literary history, from Anglo-Saxon times to the present. The classics are emphasized. A formal research paper using MLA documentation is required. Vocabulary enrichment continues through regular study and application. Full year, 1 credit.

ENGLISH IV - World Literature and Composition

Twelfth-grade English emphasizes the full integration of composition and literature. Grammar and usage skills are taught prescriptively from writing assignments, with greater critical emphasis on mastery in composition. There will be several essays with a continued emphasis on the development of analytical writing skills. The study of literature aims at an increased understanding of poetry and fiction through a chronological survey of masterpieces of western world literature, from *The Epic of Gilgamesh* to Kafka's *The Metamorphosis*. A formal research paper using M. L. A. documentation is required. Vocabulary enrichment continues through regular study and application. Full year, 1 credit.

or

AP World Literature and Composition

Enrollment in AP English is limited to students who meet departmental requirements and is, therefore, by approval of the instructor. The course is a college-level study of the masterpieces of western world literature, from *The Epic of Gilgamesh* to Kafka's *The Metamorphosis*, together with a series of challenging outside readings required throughout the year. Writing assignments focus on the critical analysis of literature. A formal research paper using MLA documentation is required. Throughout the year, the students will be exercised in the taking of the AP exam. At the completion of the course, students take the Advanced Placement Examination in Literature and Composition, which is given nationwide. Colleges may award credit and/or exemption based upon test results. Full year, 1 credit.

Elective Courses

CALUMET

This class is for students interested in producing Lakehill's literary magazine, *Calumet*. Tasks include the gathering of materials, magazine format and design, editing, typography, artistry, and final production. One semester, ½ credit.

SHAKESPEARE IN PERFORMANCE

During each six weeks of the semester, students will examine a history, comedy, and tragedy by William Shakespeare. Students will examine the three plays from the perspective of their performance histories, how different productions reflect different sociopolitical trends. Students will get a chance to examine how Shakespeare caters his plays to his audiences, and how modern directors keep his works alive for today's audiences. One semester, ½ credit.

CLASSIC MONSTERS: A SURVEY

This course will be an introduction to the monsters Americans grew up with in the twentieth century. Largely through Hollywood films, young people in the U.S. grew up being frightened by and having fun with Frankenstein, Dracula, and an assortment of werewolves, mummies, and invisible people. Opera houses became identified with phantoms and cathedrals with hunchbacked bell ringers. Although many of these wonderful monsters can trace their ancestry to the earliest human folklore, all of them received their definitive form in nineteenth-century Europe. We will, in two one-semester courses, take up these monsters one by one and, reading selectively from earlier literature and later, focus on the most important text associated with each. We will also view important film versions of these monsters' stories. Reading quizzes and tests are possibilities; one in-depth project (subject of your choosing, with instructor approval) will be required. This should be a fun and interesting course: after all, the monsters we fashion for ourselves can tell us much, if we will but listen, about ourselves. One semester, ½ credit.

YEARBOOK

This class is responsible for publishing Lakehill's annual yearbook, *The Summit*. Theme development and format design are intricate parts of this course. Photography basics such as photo cropping and reproduction will also be introduced. Students will be responsible for ad sales, page layout, design, and photos. Journalistic style of writing (news, feature, and headline) will be utilized in recording events. Full year, 1 credit.

CONTEMPORARY AMERICAN LITERATURE

The English literary canon has long been the domain of white men. Only within the last few decades have the voices of racial minorities, the GLBT community, and women emerged as powerful contributions to the "classics." As a class, we will investigate how these voices have come to gain importance, why they are so important, and whether or not there are still missing or oppressed perspectives that have yet to receive the attention they deserve. One semester, 1/2 credit.

JANE AUSTEN: NOVELS AND FILMS

A study of Jane Austen's biography, letters, and novels and the film adaptations based upon them, from 1940 to the present day. This course will serve as an introduction to a variety of themes related to Jane Austen, including: her historical status as a writer, conduct books and courtship novels, the status of women and the family from 1700-1830, English material culture of the 18th century, and current critical thinking on the novel. One semester, 1/2 credit.

CREATIVE WRITING

The Creative Writing Course offers students an opportunity for personal and artistic expression, while improving writing skills. Topics include all creative genres (poetry, fiction, and dramatic monologue and dialogue) as well as the development of a personal writing style, while quieting the tendency to self-censor. This course fosters and encourages the belief that everyone can write well. One semester, 1/2 credit.

INTRODUCTION TO PHILOSOPHY

As Socrates famously said, "the unexamined life is not worth living," and the study of philosophy is an examination of the most vexing problems of existence: the problem of knowing (epistemology), the problem of acting (ethics) and the problem of being (ontology). This course will introduce students to the great philosophers from Aristotle to Heidegger by exploring the ways these thinkers have examined these three great problems. One semester, 1/2 credit.

SPORTS IN LITERATURE AND FILM

Sports have been an integral part of societies and civilizations going back to the culture of the ancient Greeks, and our own culture's best writers have explored the meaning of sports in our world. The list of such writers includes Mark Twain, Norman Mailer, Joyce Carol Oates, John Updike, George Plimpton, and David Halberstam, just to name a few. Using the works of such writers as well as films that enhance our study, in this course we will explore and evaluate sport's role in producing narratives that inform the experience of our culture. One semester, 1/2 credit.

MATH DEPARTMENT

Required Courses

ALGEBRA I

Precision of language, algebraic structure, processes, and operations are stressed, as are the acquisition of necessary manipulative skills and an adequate understanding of algebraic concepts. Content includes solving and graphing equalities and inequalities in one and two variables, linear or quadratic; the quadratic equation; functions and relations; and radical and exponent laws. Applications of algebra to problem solving are emphasized. Full year, 1 credit.

GEOMETRY

This course emphasizes two-dimensional geometry, but elements of three-dimensional geometry are introduced as well. Main topics include inductive and deductive reasoning, congruent and similar polygons, coordinate geometry, and areas and volumes of solids. The student is expected to learn the relationship between algebra and geometry, the role of logical thinking in mathematics through the use of formal geometric proofs, and the necessity for clarity and precision of language in mathematics. When appropriate, relevant material from the PSAT and SAT will be covered in class. Prerequisite: Completion of or concurrent enrollment in Algebra I. Full year, 1 credit.

ALGEBRA II

This required course reintroduces and reinforces the algebraic properties of the real number line, as well as the concepts and skills associated with linear and quadratic equations and inequalities. The concept of functions, particularly, polynomial, rational, logarithmic, exponential functions and irrational functions will be introduced. Conic sections, complex numbers, probability theory, and matrices will be integrated throughout the year. The use of graphing calculators will supplement the learning process. PSAT and SAT practice is included. Full year, 1 credit.

PRE-CALCULUS

This course is especially designed to prepare students for college mathematics and advanced mathematical study. It gives students a sound understanding of the concepts required in the study of Calculus. Principle topics include analytic geometry; elementary analysis; trigonometric, exponential, polynomial, and rational functions; advanced graphing techniques; sequences and series; probability, matrices, polar coordinates, determinants; vectors; the complex number field; and an introduction to differential calculus. Full year, 1 credit.

STATISTICS

This course will introduce the student to statistical concepts that would be highly useful in a scientific or business type setting through real-life examples and exercises. Topics covered will include measures of central tendency, probability, the normal distribution, hypothesis testing, estimates and sample sizes, and a basic introduction to non-parametric statistics. The use of graphing calculators will supplement the learning process. When appropriate, material relevant to the SAT and ACT tests will be covered and reviewed. Prerequisite: Completion of Algebra II. Full year, 1 credit.

CALCULUS

This course builds upon the concepts and procedures studied in previous mathematics classes, including Pre-calculus. For example, linear functions serve as the foundation for a study of the concept of slopes of non-linear functions. Geometric sequences and series are used to explore the mathematics of investment and to build the concept of Riemann sums. Particular topics may vary from year to year to allow for the interests and strengths of the current students, but all students who successfully complete this course should be well prepared to take college level mathematics courses, including calculus. Full year, 1 credit.

AP STATISTICS

The goal of this class is to introduce motivated students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. This course focuses on four conceptual themes: exploring data by describing patterns and the departures from those patterns; sampling and experimentation; probability and simulation to describe patterns; and statistical inference used to estimate population values and test hypotheses. This course is intended to be comparable to an introductory college-level course in Statistics. Prerequisite: Completion of Algebra II, with a B or higher and permission from the instructor. Full year, 1 credit.

AP CALCULUS AB

Students who excel in mathematics may take this course, which is comparable to a college level course in first semester calculus. The curriculum is based on the guidelines as published by the College Board for the year-end national examination for AB Calculus. Prerequisite: Pre-Calculus with B or higher average and permission from the instructor. Full year, 1 credit.

AP CALCULUS BC

This course is designed to cover the topics in the curriculum for the AP Calculus BC Exam, as well as additional topics in calculus. The course syllabus includes review of first semester calculus topics, an in-depth study of the BC topics not included in AB, preparation for the BC exam, and introduction to multivariable calculus topics as time allows. Prerequisite: AP Calculus AB. A TI-84 Calculator is required. Full year, 1 credit.

SCIENCE DEPARTMENT

Required Courses

BIOLOGY I

This required lab course progresses from an understanding of life on a cellular-molecular level to unicellular and more complex life forms. The five kingdoms, biochemistry, genetics, microbiology, physiology, and ecology are some of the topics explored. The approach allows students to see organisms as a whole, with all systems functioning together. Labs, demonstrations, field trips, and outside speakers enhance the understanding of inter-relationships and biological studies. Critical thinking skills are developed as students are confronted with situations that make it necessary to synthesize facts, make observations, and form conclusions and opinions. Full year, 1 credit.

ENVIRONMENTAL SCIENCE

This course will thoroughly explore the fundamentals of environmental science using an interdisciplinary approach. Basic principles of biology, ecology, and environmental management will be covered, while trying to present a clearer understanding of the impact of the human population on the environment. The course places a large emphasis on world and regional case studies to analyze environmental problems involving air, water, and land issues. Students will investigate various topics through many hands-on lab experiments, critical thinking exercises, and short field trips. Special emphasis will be put on the role of human encroachment upon threatened ecosystems. Full year, 1 credit.

CHEMISTRY

Chemistry is the study of the composition of matter and the changes that matter undergoes. This course focuses on the basic principles of general chemistry, with a strong emphasis on problem solving, critical thinking, and laboratory skills. Laboratory investigation using the scientific method will be a major part of the course. Completion of or concurrent enrollment in Algebra II is a prerequisite. Full year, 1 credit.

or

HONORS CHEMISTRY -

This course provides the basic principles of general chemistry while also focusing on the links among chemistry, biology, and physics. It introduces the skills, concepts, and assessment methods that prepare students for success when they take Advanced Placement or other challenging science courses. In addition to the basic chemistry taught in an introductory course, students will also explore atomic theory, molecular bonding, thermodynamics, kinetics, equilibrium, and organic chemistry. Laboratory exercises will encourage the student to organize, analyze, and deduct logical consequences from data. Since a mathematical approach will facilitate the understanding of concepts, it is necessary for the student to have completed or be currently enrolled in Algebra II. Students take this course only with the permission of the instructor. Full year, 1 credit.

Elective Courses

HUMAN ANATOMY AND PHYSIOLOGY

Anatomy and Physiology is the study of the structural and functional characteristics of living things. The course will begin at the microscopic level with atoms and cells and proceed through each of the organ systems so that a full understanding of the human body can be gained. Students will gain knowledge of anatomical and physiological concepts through lecture and hands-on lab activities and dissections. Full year, 1 credit.

PHYSICS

This is a course of study that emphasizes universal laws of motion, matter, and energy. Students will demonstrate graph analysis and conceptual understandings of mathematical applications of physics laws through selected experiments, projects, demonstrations, and problem-solving applications. Prerequisite: Algebra II. Full year, 1 credit.

AP ENVIRONMENTAL SCIENCE

The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. This course examines a variety of natural science fields (e.g. environmental science, ecology, geology, chemistry, geography) and several social science disciplines (e.g. economics, politics, ethics). This course is designed to fully acquaint students with the many topics and subject areas within the environmental science field and to provide them with opportunities to apply their knowledge to their daily lives. Additionally, the course promotes environmental science literacy so that students will be better prepared to make decisions on issues impacting the environment. Other course objectives include establishing a sense of stewardship for the environment and illustrating that one person can make a difference. Full year, 1 credit.

AP BIOLOGY

(Alternates with AP Physics B)

The AP Biology course is designed to be the equivalent of an introductory biology course in college. It follows the curriculum of the College Board for Advance Placement. It includes three major areas of study: Molecules and Cells, Genetics and Evolution, and Organisms and Populations. It includes a substantial laboratory component, requiring additional time on the part of the student. Students selecting this course should be willing to commit extra time and effort to the labs, readings, and preparations for the exam. Biology and Honors Chemistry are prerequisites. Students may take this course only with the permission of the instructor. Full year, 1 credit.

AP PHYSICS B

(Alternates with AP Biology)

This course covers mechanics, wave motion, thermodynamics, electricity and magnetism, optics and modern physics. Problem solving emphasizes critical thought and includes pre-calculus concepts. Computer-based laboratories are included in the curriculum. A TI 83+ or TI 89 calculator is recommended. Full year, 1 credit.

SOCIAL STUDIES DEPARTMENT

Required Courses

MODERN AMERICAN HISTORY

This required course provides ninth-grade students with the opportunity of taking a closer look at the history of the United States in the 20th century. From its devastating wars to its incredible advancements in technology, this century provides an extensive array of events to study. Students continue to sharpen their skills in research and historical writing. The course is an extension of the study of American History begun in the 8th grade. Full year, 1 credit.

WORLD HISTORY

In this required course, sophomore students will complete a two-semester survey of major civilizations, events, and personalities of world history. The survey will begin in the post Renaissance era and end with a look at modern third world nations. World geography, religion, and political entities are naturally included along with current event topics. Historical writing and research skills are honed. Full year, 1 credit.

U.S. GOVERNMENT

As a required course at the senior level, this semester-long course provides students with a working knowledge of federal, state, and local systems of government. Topics of emphasis include the Constitution, the three branches of government, responsibilities of citizenship, political parties, and civil rights. Current events are an integral part of the course, providing the opportunity to observe and discuss our government in action. One semester, ½ credit.

ECONOMICS

This semester-length required course in the senior year is a basic survey of Economics. During the survey, basic terminology is introduced. Microeconomics and macroeconomics are introduced as well. Course projects include a simulation involving stock market investment and the creation of a business plan. One semester, ½ credit.

Elective Courses

INTRODUCTION TO PSYCHOLOGY

This survey course introduces the basic principles, methods, and fields of psychology and focuses on several themes including nature vs. nurture, mind vs. body, and diversity vs. universality. One semester, ½ credit.

AMERICA IN THE AGE OF ROCK AND ROLL: A SOCIAL HISTORY

Beginning with the aftermath of World War II, this course will explore American Society in the 1950s and 1960s. Topics include suburbanization, television culture/mass media, evolution of gender roles, conformist culture versus the Beat movement, the Affluent Society, the Civil Rights movement, domestic reaction to the Cold War, and reflection of it all in the arts. Period music, literature, film, and television will be used to illuminate and illustrate throughout the course. One semester, ½ credit.

THEATER HISTORY

Theater History is a survey of the history of theater, both Eastern and Western traditions. This class will examine the development of theater from its ritualistic origins to its evolution to a popular entertainment. The class will look at historic documents and theater texts, as well as stage, scenic and costume designs. Students will look at the evolution of both acting and design styles. One semester, ½ credit.

ART HISTORY I

This class will consist of research using a variety of resources to study the history of art from pre-historic to the High Renaissance. Students will study the influence of one period of art on another and relate the subject matter of the work of art to the historical period in which it was completed. Each student will be required to keep a sketchbook/notebook of each work of art studied. Testing will be over research facts and the ability to identify works of art and artists. One semester, ½ credit.

ART HISTORY II

This class will consist of research using a variety of resources to study the history of art from the Baroque period to Post-Modernism. Students will study the influence of one period of art on another and relate the subject matter of the work of art to the historical period in which it was completed. Each student will be required to keep a sketchbook/notebook of each work of art studied. Testing will be over research facts and the ability to identify works of art and artists. Prerequisite: Art History I. One semester, ½ credit.

AP AMERICAN HISTORY

(Alternates with AP European History)

Students with A/B averages in history courses during previous years will enjoy the challenge of this college-level course that requires extensive reading, writing, and discussion of historical topics. Open to 11th and 12th grade students, the course helps students improve their analytical skills and their knowledge of historical data. The course follows the guidelines set by the College Board, the agency that authors the test given at the end of the course. An excellent score on this test may result in college credit and/or advanced college placement. Students may take this course only with the permission of the instructor. Full year, 1 credit.

AP EUROPEAN HISTORY

(Alternates with AP American History)

Students who excel in history may choose this elective course, which covers the intellectual, political, cultural, social, and economic history of Europe from approximately 1450 to 1970. The focus of the course emphasizes understanding the major themes evidenced throughout the period of study and increasing students' ability to analyze historical evidence. The course follows the guidelines set by the College Board. An excellent score on this test may result in college credit and/or advanced college placement. Students may take this course only with the permission of the instructor. Full year, 1 credit.

COMPUTER SCIENCE AND TECHNOLOGY DEPARTMENT

Required Courses

COMPUTER SCIENCE I

Computer Science I provides students with an understanding of computer science and computer programming using the Java language. As the Internet has become a way of communication, Java has become the world's programming language of choice, with its cross-platform, "write once, run anywhere" functionality. This course covers application software design and development from "big picture" concepts to standard coding techniques. Topics include: Variables, arithmetic operations, conditional expressions, classes, objects, methods, parameters, loops, lists, and applets. The first part of the course introduces the logic of programming using the Java-based Jeroo 2D graphics environment. The middle part of the course expands the student's experience using the Java-based Alice 3D environment. The last part of the course is devoted to pixel-oriented graphics and animation in Java. Early successes and continued successes with programming are emphasized in this lab-based course. One semester, ½ credit.

or

COMPUTER APPLICATIONS

The Computer Applications course covers word processing, spreadsheet, presentation, communications (email), organization and time-management, information technology ethics, and information searching and retrieval. Emphasis is on the use of the computer as a productivity tool. One semester, ½ credit.

COMPUTER SCIENCE II

Computer Science II provides students with a rigorous foundation for the AP Computer Science class. Fundamentals of the language will be demonstrated and used in programming assignments. GridWorld, the AP case study, will be introduced and used as an example of a large-scale programming system. One semester, 1/2 credit.

COMPUTER SCIENCE TOPICS

Computer Science Topics provides students with an opportunity to further their understanding of Java programming beyond the Computer Science I class. Course content will be drawn from the following topics and may vary from semester to semester: 2D and 3D event-driven programming, using environments such as Greenfoot and Alice, and media computation, which involves techniques for manipulating images and audio files. May be repeated once. One semester, ½ credit.

AP COMPUTER SCIENCE

Advanced Placement Computer Science is a full year college-level course covering application software design and development using the Java language. As the Internet has become a way of communication, Java has become the world's programming language of choice, with its cross-platform, "write once, run anywhere" functionality. This course, approved by the College Board, provides a thorough coverage of the AP-specified core subset of the Java language and prepares students to take the College Board Exam. Prerequisite: Completion of Computer Science II with a grade of A- or better. Permission of the instructor required. Full year, 1 credit.

DESIGN AND IMPLEMENTATION OF COMPUTER LANGUAGES

This course is for students who have meritoriously completed AP Computer Science and wish to continue their preparation for a college major in computer science or other technical area. The course covers the various "design recipes," computer program design using the Scheme language, and design and implementation of domain-specific languages for custom software applications. Prerequisite: Completion of AP Computer Science with a grade of A- or better and a score of 3 or better on the AP Exam. Permission of the instructor required. Full year, 1 credit.

THE INFINITY PROJECT

The Infinity Project provides an engineering/technology curriculum teaching the engineering design algorithm for the design, development, and testing of audio and video digital signal processing (DSP) projects. Using the textbook, *Engineering Our Digital Future*, by Geoffrey Orsak, and a technology kit produced and distributed by Hyperception and Texas Instruments, students have access to over 350 engineering and technology design projects structured to guide conceptualization, innovation, creativity, and experimentation in the application of concepts to "real world" design problems. Prerequisites: Algebra II and one lab-based science course. Permission of the instructor required. Full year, 1 credit.

FOREIGN LANGUAGE DEPARTMENT

Required Courses

SPANISH I

Spanish I introduces the student to the basics of grammar, vocabulary, pronunciation, and conversation. Emphasis is placed on some of the cultural aspects of Spanish-speaking countries by providing additional readings, listening and speaking activities, and field trips. Students are expected to develop a general understanding of the nature and function of the language in preparation for Spanish II. Students will be able to carry on short conversations in Spanish, and listening comprehension skills will be practiced through the use of CD audiotapes and videotapes. Full year, 1 credit.

SPANISH II

Second-year Spanish continues basics of language acquisition and introduces more complex concepts. Vocabulary is broadened, aural and oral skills are strengthened, and creative writing skills are developed. Students continue to grow in their understanding of some of the cultural aspects of Spanish-speaking countries through additional reading, traditional and fine art activities, and field trips. Full year, 1 credit.

or

FRENCH I

This course is an introduction to the language and culture of French-speaking countries in our world. Through an integrated teaching approach, the instructor presents exercises and activities that provide a balanced focus on the four language skills: listening, speaking, reading, and writing. Lessons are centered on communicating with French speakers on a basic level in order to accomplish practical tasks. Videos and cassette tapes presenting native speakers are used to enhance aural-oral comprehension. Full year, 1 credit.

FRENCH II

The second year of French expands student vocabulary and grammar in order to develop more complex sentence and conversational structures. As a result, this course exposes students to common idiomatic expressions and mannerisms of speech which are currently popular in French culture and which must be studied for comprehension. Practice in speaking and listening continues through the use of cassettes and videos, with an increasing amount of emphasis placed on correct pronunciation and intonation. Full year, 1 credit.

Elective Courses

SPANISH III

Many colleges require a third year of a foreign language. This course is for students with strong language abilities and an interest in the language and culture of native speakers. All aspects of the language learned in Spanish I and II are reviewed and strengthened. Students work toward mastery of aural, oral, and writing skills. Special emphasis is placed on the literature and arts of Spanish-speaking cultures. It is advisable for students entering Spanish III to have strong reading, writing, and speaking skills. Full year, 1 credit.

SPANISH IV

This course follows a format similar to that of the AP Spanish language class and is recommended for students with a demonstrated ability and interest in the language. Students must be able to read, speak, and write in Spanish with confidence and accuracy. Students enrolled in this course are encouraged to take the Spanish SAT II test. Permission of the instructor is required. Prerequisite: Student must have taken Spanish III. Full year, 1 credit.

AP SPANISH LANGUAGE

This course follows the format of an AP Language class. Students enrolled in the class are required to take the AP Spanish Language exam. Students must be able to understand, speak, read, and write Spanish with confidence and accuracy. Permission of the instructor is required. Prerequisite: Spanish III or Spanish IV. Full year, 1 credit.

AP SPANISH LITERATURE

The AP Spanish Literature course is designed to introduce students who have advanced language skills to the formal study of a representative body of literary texts in Spanish which includes prose, poetry, and drama from different periods. Students will become familiar with the cultural context of the works read and will acquire the basic concepts and terminology of textual analysis. By learning to identify and interpret the various elements that enter into the composition of a literary text and to perceive their relationships, students acquire a fuller understanding and appreciation of the art and significance of literature. Full year, 1 credit.

FRENCH III

The third year of French challenges the student to use the skills learned in French I and II to develop a more sophisticated form of communication. By continuing to increase his or her vocabulary and by studying grammar in a more detailed manner, the student will learn to read, write, and speak on a more complex level. Listening and writing activities are based on excerpts from classical French literature and contemporary French magazines and newspapers. Students are strongly encouraged to take a third year of a foreign language, as many universities now require this for consideration of admission. Full year, 1 credit.

AP FRENCH LANGUAGE

This course focuses on mastering communicative skills in French to the point that the student can show sufficient proficiency in the language to enable him to enter an advanced college-level French language or literature class. This goal requires a personal commitment from the student to make productive use of class time and to set aside time outside school hours for an in-depth independent study. Full year, 1 credit.

FINE ARTS DEPARTMENT

PAINTING

A one-semester course devoted to painting, using acrylic, watercolors, and oils. Areas of concentration include self-portraits, landscape, and still life. One semester, ½ credit.

DRAWING

A one-semester course devoted to drawing, using pencil, charcoal, and ink. Areas of concentration include life drawing, landscape (one- and two-point perspective), and still life. One semester, ½ credit.

SCULPTURE/ PRINTMAKING

A one-semester course devoted to sculpture and printmaking. Mediums involved include ceramics, constructivism, and papier-mâché. This course will consist of a series of projects using different techniques of printmaking. Projects will include processes using silk screens, monoprints, linoleum prints, and woodcuts to create a run of numbered limited edition prints. One semester, ½ credit.

DIGITAL ART

This is a one semester course on using Adobe Photoshop Elements to create works of art and photo manipulation. One semester, ½ credit.

AP STUDIO ART

This course will address three major concerns that are constant in the teaching of art: (1) a sense of quality in a student's work; (2) the student's concentration on a particular visual interest or problem; and (3) the student's need for breadth of experience in the formal, technical, and expressive means of the artist. All students will create a portfolio for submission to the College Board. The AP program in Studio Art is for highly motivated students who are seriously interested in the study of art and involves significant commitment. Prerequisite: Students must have previous training in art and the instructor's permission before enrollment. Full year, 1 credit.

LAKEHILL CHORALE (CHOIR)

Choir is offered to all students who want to express themselves through singing in an ensemble. Both beginners and experienced members are welcome. Choral singing offers a unique opportunity for students to develop both their singing voices and musical abilities. A wide range of musical styles and genres will be studied and performed. The course culminates in an end of the year concert. Other performance opportunities are offered throughout the year including assemblies, Baccalaureate, and the ISAS Fine Arts Festival. Full year, 1 credit.

LAKEHILL SINGERS (ENSEMBLE)

Ensemble is offered to all choir students as an extra-curricular vocal ensemble performing a variety of choral music. Students must be enrolled in the Lakehill Chorale (Choir) as a prerequisite. Performances include concerts, football games, basketball games, and other special-invitation venues. Students who wish to participate must be extremely dedicated since this group rehearses three days a week during lunch.

MUSIC THEORY I

Music Theory I is designed to introduce students to the fundamentals of music terminology, note and rhythm reading, and notation. The students will learn how to read music, understand rhythms, as well as key signatures and the circle of fifths. Intervals will be introduced and students will learn how to use a keyboard to help them solidify the concepts learned in class. One semester, ½ credit.

MUSIC THEORY II

This course focuses on a review of the fundamentals of music reading as learned in Theory I. Students will continue their studies of intervals, triads, major and minor scales, harmony and rhythm studies, and begin learning four-part harmony as well as keyboard harmony. Students will be asked to complete a composition project to be performed in front of the class. One semester, ½ credit.

MUSICAL THEATER

The Musical Theater course provides students with an opportunity to expand their knowledge and increase their experience in performance. Areas of study include acting, choral singing, solo acting and singing, dance, and technical theatre. The course cumulates in a performance of a full-length musical, cast exclusively from the members of the class. Additional performance opportunities are provided in the form of cabaret-style showcases. This course is open to all Upper School students. One semester, ½ credit.

INTRODUCTION TO DRAMA

This course provides a general overview to the theater profession. Students are introduced to all aspects of stagecraft and theater production. Emphasis is also placed on development of acting skills through theater games as well as scene and monologue work from classic dramas. Students in Introduction to Drama will participate in a full-length or one-act play by semester's end, cast exclusively from the class. Productions will involve some out-of-class rehearsals. Students are also encouraged to participate in the ISAS Arts Festival. One semester, ½ credit.

ADVANCED DRAMA STUDIES

The Advanced Drama Studies course provides students with an opportunity to expand their knowledge of technical theater and acting technique. Students will create a design portfolio for a play of their choice. Acting skills will be honed through scene work, improvisation, and audition practice. The course culminates in a performance of a full-length or one-act play, cast exclusively from the class. Productions will involve some out-of-class rehearsals. A production from the Advanced Drama Studies class is usually taken to the ISAS Festival. Prerequisite: Introduction to Drama or two semesters of Musical Theater. One semester, ½ credit.

PHYSICAL EDUCATION DEPARTMENT

PHYSICAL EDUCATION

Physical education continues to be a required part of every student's day. Physical fitness and health are a major focus as students develop active lifestyles. Coordination, individual and team games, sports skills and rules, sportsmanship, fitness, and safety are vital parts of the curriculum. Students must dress out daily in a PE uniform. Effort and participation are expected. Full year, 1 credit.