Curriculum Guide

For grades Pre-K through 12 at Thomas Jefferson Independent Day School





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Our academic principles stand the test of time.

Success does not happen by accident. It takes a strong work ethic and an unyielding commitment to excellence. But most of all, success takes preparation. At Thomas Jefferson Independent Day School, we lay the foundation for success in life by offering a curriculum that prepares your child to excel in college and all facets of life. Critical thinking skills and solid study habits are learned, and engaged parents play an integral role along the way. TJ does not waste time by following fads. Our focus is on a classic Western Civilization curriculum with texts that have stood the test of time. By learning about the history, culture, origins, and literature of Western civilizations, our students are able to better understand and appreciate other cultures. Laboratory sciences and advanced mathematics courses create opportunities to develop and strengthen problem-solving and research skills. World languages, art, and music offerings, which begin early on, further broaden the cultural scope of our liberal arts curriculum.

Thomas Jefferson Independent Day School admits students of any race, color, national or ethnic origin to all the rights, privileges, programs and activities generally accorded or made available to students at the school. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its education policies, admissions policies, and other school-administered programs.

THE EARLY CHILDHOOD PROGRAM

The Early Childhood Division—consisting of the Pre-Kindergarten and Kindergarten programs—focuses on several discrete goals: preparing students for academic instruction; engendering enthusiasm for learning; developing an appropriate response to authority; and educating students to work collaboratively. The program strives to present developmentally-appropriate activities for each student.

	English	Math	Science	History/Social Studies	World Languages	The Arts	Program Enhancements	After School Programs
Pre-	The student will devote attention to reading, writing mechanics, listening, and oral communication. Instruction relies on thematic units, learning centers, stories, and small-and large-group activities.	The student will attach meaning to numerals. The topics include arithmetic skills, visual discrimination, number theory, geometry, problem solving, and measurement.	The program centers on life science, earth science, and physical science. The student will learn through exploration and manipulation, relying on art projects, small-group experiments, games, songs, finger plays, and group discussions.	The program focuses on geography, communities, and citizenship. Instruction relies on learning centers, thematic units, and handson activities.	Spanish This program stresses language acquisition through games, songs, oral practice, and proper pronunciation of Spanish expressions, numbers, nouns, verbs, and adjectives. They are able to produce some Spanish words in context, without prompting, before they enter the next grade.	Art — Grades Pre-K and K Students in the Early Childhood Division learn to distinguish artwork in the studio from their more crafts- oriented activities in the regular classroom. Their early focus is on recognizing the qualities of shape, color, and line; they move on to learning the color wheel and mixing color, combining and manipulating shapes to create visual images, and beginning to depict space.	Technology — Grades Pre-K and K Pre-kindergarten and Kindergarten students meet in the computer lab once a week for the entire school year. Students use a variety of media and technological resources for directed and independent learning activities. The curriculum helps students develop skill and confidence in using computers as an effective means of gaining knowledge and expressing ideas. Physical Education — Grades Pre-K and K The Pre-kindergarten and Kindergarten programs are aimed at challenging each student to demonstrate progress toward the mature form of selected manipulative, locomotor, and non-locomotor skills. Skills and games center on seasonal sports and recreational activities. In addition to focusing on fundamental age- appropriate skills and games, students will learn that physical activity and healthy nutrition are good for the body, and that they contribute to an active and healthy lifestyle.	school provides after-school care for TJ students in grades Pre-K through 5 from 3-6 p.m. Monday through Friday. e lent d r s s arn e
K	The student will use phonics to recognize letters and sounds and decode unknown words. The student will listen to and read stories and then retell a story by discussing the beginning, middle, end, and main idea of the story.	The student will strengthen number recognition and the ability to quantify numbers through one hundred. Teachers will introduce the student to the general concepts of addition, subtraction, time, money, fractions, and measurement.	The program emphasizes life science, earth science, and physical science by relying on hands-on discovery, experiments, learning centers, and group activities. The student will learn how to use the scientific method.	The student will develop an understanding of community, family, and citizenship. The teacher introduces the student to the use of maps, globes, and charts to learn how to distinguish one place or region from another.	Spanish This program stresses language exploration through games, songs, oral practice, and proper pronunciation of Spanish expressions. Communication skills are expanded as students learn simple vocabulary: nouns, verbs, and adjectives surrounding many themes.	Music —Grades Pre-K and K Students in the Early Childhood Division learn about music through songs, dances, stories and play activities. They also experiment with rhythm instruments and using their voices expressively. They learn nursery rhymes, folk songs, songs with actions, songs to accompany stories and games, and music of many styles. The classes perform three times a year at school concerts.		

THE LOWER SCHOOL PROGRAM

The Lower School program focuses on establishing advanced core competencies. The course of study develops essential academic skills: reading, writing, listening, computing, and studying. The program emphasizes studies in English, with a dependence on phonics; in mathematics, where the teachers balance drill with critical thinking and problem-solving in the context of traditional instruction; in social studies and history, concentrating on Western traditions and particularly the American heritage; and in science, in which students use a hands-on approach to learn the lessons of nature and the scientific method. The program builds on world language, music, art, and P.E. skills developed in the Early Childhood Program.

	English	Math	Science	History/Social Studies	World Languages	The Arts	Program Enhancements	After School Programs
RADE	Students will decode language and use phonics skills, building a sight-word vocabulary. They will maintain a journal and write stories as means of developing writing skills. Students strengthen their handwriting skills and further develop writing in complete sentences.	Students will add and subtract two-digit numbers without regrouping. They will understand concepts of time, measurement, money, and sequencing. The teacher emphasizes the process as much as the solution.	Students meet with the science teacher in the science lab and engage in an entirely hands-on curriculum. Students learn scientific concepts and the scientific method through controlled experiments as well as reading and writing about science. Topics covered in first grade are Organisms, Coding, Comparing and Measuring, Balancing and Weighing, and The Moon and Beyond.	Students will explore the nature of communities by focusing on the school and neighborhood community. The student will learn to identify the needs and wants of people and families. They will also learn map skills, including cardinal directions and concepts of continent, country, state, and city.	Spanish — Grades 1-2 In 1st and 2nd grade most of class time is devoted to visual cues, songs, gestures, role plays, manipulatives, and listening practice in order to acquire vocabulary in context without translation. Students receive lots of comprehensible input and continue expanding their vocabulary. They begin writing in simple complete sentences, though the emphasis is still on listening and uses of basic phrases. Cooperative stories are still used, but students have an opportunity to begin reading in the target language as well as responding to questions about what's being read. Spanish — Grades 3-5 The students begin the study of the details that make up the language. The students learn to write in the target language and notice the differences between English and Spanish spelling and pronunciation. A written study of familiar vocabulary moves it to active language. Activities include mimicry, aural comprehension, and reading and writing in the target language. In addition, an emphasis on oral practice is encouraged through roleplays and specific times where only the target language is allowed. Grammatical concepts include formation of regular verbs in the present tense, plurals, negatives, and questions, as well as spelling and gender agreement. The students also study Spanish culture.	In 1st and 2nd grade most of class time is devoted to visual cues, songs, gestures, role plays, manipulatives, and listening practice in order to acquire vocabulary in context without translation. Students receive lots of comprehensible input and continue expanding their vocabulary. They begin writing in simple complete sentences, though the emphasis is still on listening and uses of basic phrases. Cooperative stories are still used, but students have an opportunity to begin reading in the target language as well as responding to questions about what's being read. Spanish — Grades 3-5 The students begin the study of the details that make up the language. The students learn to write in the target language and notice the differences between English and Spanish spelling and pronunciation. A written study of familiar vocabulary moves it to active language. Activities include mimicry, aural comprehension, and reading and writing in the target language. In addition, an emphasis on oral practice is encouraged through roleplays and specific times where only the target language is allowed. Grammatical concepts include formation of regular verbs in the present tense, plurals, negatives, and questions, as well as spelling and gender agreement. Throughout grades one through five, students meet with the art teacher twice per week. They create works of art in various media, using a variety of techniques, to learn the principles of design and the elements of art. Along the way, they increase their art vocabulary to be better able to communicate about their own creative efforts and about the role of art in society throughut history. Art projects connect to the classroom curriculum whenever natural opportunities arise. The study of great works in art history, proceeds thematically—that is, through landscapes, portraits, or figure sculptures. General Music — Grades 1-5 Students in the Lower School study music of many styles, composers, and performers from all eras. Through an emphasis on singing, playing instruments, movement	Throughout grades one through five, students meet with the art teacher twice per week. They create works of art in various media, using a variety of techniques, to learn the principles of design and the elements of art. Along the way, they increase their art vocabulary to be better able to communicate about their own creative efforts and about the role of art in society throughout history. Art projects	All students in grades 1-5 have several opportunities for after-school enrichment at TJ. In addition to tutorials available every day from 3:15 - 4 p.m., students can participate in several activities including book club, chess club, math club, film club, and computer activities. The Extended Day program provides after-school care for TJ children in grades Pre-K through 5 from 3-6 p.m. Monday through Friday.
RADE	Students will develop skills and habits with which to read independently with improved comprehension. Both writing and spelling exercises stem from reading experiences. They will focus on vocabulary development and spelling skills, as well as appropriate grammar in writing and speech. The teacher will introduce cursive handwriting.	The student will develop skills in problem- solving and logical reasoning. The student will add and subtract two- and three-digit numbers with regrouping, and will develop an understanding of number patterns, comparing and ordering numbers, interpreting tables and graphs, and using multiplication and division concepts. The student will understand the concepts of time, measurement, money, simple fractions, geometry, sequencing, probability, special sense, and patterns.	Students meet with the science teacher in the science lab and engage in an entirely hands-on curriculum. Students learn scientific concepts and the scientific method through controlled experiments as well as reading and writing about science. Topics covered in second grade are Life cycle of the Butterfly, Soil, Air, Changes, and Mystery Festival.	Students will engage in research and make presentations concerning comparisons of communities past and present, rural and urban. They will understand wants and needs, goods and services, government, rules and laws, local and national history, and natural resources and conservation. They will identify the continents, the oceans, the United States, and the state in which he or she lives.			Technology — Grades 1-5 Lower school students meet in the computer lab once a week during the school year. Students gain confidence in accessing the local area network, using their personal network user names and passwords, and using the features of the PC. Students participate in structured class assignments where they plan, design, and implement curriculum-related projects. Technology instruction reinforces and enhances mathematics, language arts, social studies, and science curriculum. In the self-contained classroom, students also have access to a laptop cart, from which they can supplement their computer lab experience and integrate technology into the classroom. Specific topics include computer literacy, spreadsheets and charting, online research methods, and keyboarding. Multimedia presentations are created and presented in the fourth and fifth grades, involving collaborative efforts between the classroom and computer lab. The skills students master in the computer lab are easily and confidently transferred to computer use in the library, individual classrooms, and at home. Physical Education— Grades 1-5 The Physical Education program is based on the strong belief that a healthy, balanced, well-rounded student has a greater chance of learning, understanding, and excelling in and out of the classroom. Fundamental age-appropriate motor skills are progressively refined and combined into more specific sport skills. The student will be introduced to a variety of skills through individual and team sports. The curriculum stresses sportsmanship and fair play in all areas, with more sport-specific activity in the later years. Through physical activity, the courses provide opportunity for challenge, enjoyment, self-discovery, self-expression, and lifelong skills to enhance one's quality of life.	
RADE	The course of study emphasizes vocabulary and comprehension. The teacher reads aloud to encourage enjoyment of diverse forms of literature, and students reads independently and presents reports throughout the year. The program emphasizes spelling, grammar, expository writing, and handwriting. The teacher pays special attention to developing correct paragraph structure.	Students will develop basic computational skills in addition, subtraction, multiplication, and division. They will also focus on fractions, decimals, geometry, money, time, graphs, charts, and estimation. The program stresses problem solving throughout the year.	Students meet with the science teacher in the science lab and engage in an entirely hands-on curriculum. Students learn scientific concepts and the scientific method through controlled experiments as well as reading and writing about science. Topics covered in third grade are Plant Growth and Development, Rocks and Minerals, Chemical Tests, Sound, and Dinosaur Classification.	The focus of the program is the history, geography, government, and culture of Missouri. The student will also study the four geographic regions of the United States, learning differences in physical features, climate, population, farming, industry, natural resources, and major cities in each region. The student will be able to locate all fifty states on a map.				
AL.	Students will develop an appreciation of literature and cultivate word-attack skills by reading chapter books in a variety of genres including fiction and nonfiction. The program enhances vocabulary growth and spelling accuracy. Grammar, usage, and mechanics are integrated throughout the English program. An outgrowth of the program is refined problem-solving skills.	Students will develop reliable skills in multiplication and division, working with fractions and decimals and identifying geometric figures. Instruction incorporates the use of manipulatives to promote critical thinking and mathematical reasoning skills. The student will also develop skills in measurement, probability, and data analysis.	Students meet with the science teacher in the science lab and engage in an entirely hands-on curriculum. Students learn scientific concepts and the scientific method through controlled experiments as well as reading and writing about science. Topics covered in fourth grade are Animal Studies, Water, Human Body, Rocketry, and Electric Circuits.	Students will study land forms, climate, natural resources, and the industry of regions throughout the world through instructional media, field trips, hands-on activities, and research projects. The program highlights national holidays, current events, and important figures in U.S. history. Focus on map skills includes intermediate cardinal directions along with charts and graphs.				
5	The program includes the customary focus on reading, writing, spelling, grammar, and vocabulary skills. The student will practice editing, grammar, sentence structure, and paragraph construction. The student will also read and study diverse genres of literature, acquire new vocabulary from the readings, and write about books with evidence from the text.	Students will expand on the previous year's knowledge of math. The program emphasizes accuracy and speed in basic computations involving numbers up to 12. The students also add, subtract, multiply, and divide large whole numbers, decimals, and fractions, as well as develop ability in problem solving, English and metric measurement, geometry, probability, and data analysis.	Students meet with the science teacher in the science lab and engage in an entirely hands-on curriculum. Students learn scientific concepts and the scientific method through controlled experiments as well as reading and writing about science. Topics covered in fifth grade are Microworlds, Ecosystems, Levers and Pulleys, Measuring Time, and Magnets and Motors.	The students examine the history of the American people from early times to the present day. The program also focuses on the geography of the United States – mountains, rivers, forests, farms, cities, and natural resources in general. Major skills developed in the course of the year include research, oral presentations, group projects, note-taking, and outlining. Throughout the year, students compose essay responses using original ideas in complete sentences based on the questions.				

THE MIDDLE SCHOOL PROGRAM

Middle School confronts the formidable challenge of negotiating the transition from childhood to adolescence. The course of study requires a high degree of intellectual integrity and rigor yet does not expect the level of sophistication of a high-school student. The instructor must walk the fine line between playing the pedagogue and nurturing the emotional development of a young person into the

threshold of adulthood. The result of a TJ middle school education is the readiness to tackle a demanding academic program in the Upper School. Students will emerge from the Middle School prepared to write an essay, take comprehensive final exams, organize and apportion time for homework, think seriously about ideas, retain vital facts and details necessary to the presentation of a credible

judgment, and engage in civil and reasoned discourse.

The school fundamentally believes that students must acquire the requisite knowledge with which to think critically. That premise then inspires a program designed to inculcate foundational knowledge – in literary study, in the study

of history, in scientific disciplines, in mathematics, and in foreign languages. Students will acquire the skills to apply certain operations in these disciplines – like conjugating verbs, factoring equations, and testing hypotheses. TJ fields interscholastic teams in cross-country, volleyball, basketball, cheerleading soccer, tennis, and track at the middle-school level.

English **Social Studies/History World Languages Fine Arts/Performing Arts** Math Science **Other Middle School Offerings** World Geography The course begins a student's transition Pre-Algebra Science Chinese Physical Education — Grades 6-8 GRADE Pre-algebra is a gateway into the world of The world geography course is designed to from reading for plot to reading for Students explore topics in life science, The physical education courses in grades 6-8 place strong emphasis on developing The sixth grade students learn still life drawing from direct Introduction to Chinese algebra and geometry. The topics-which provide students with a basic understanding meaning. Students read novel-length physical science and earth/space science. knowledge and skills in various team sports and activities. Students learn basic skills and In this course, students are given an observation, working from simple groups of geometric texts, short stories, drama, and poetry include patterns, formulas, integers, real of the world in which they live The Farth's Cell structure, reproduction, ecosystems, strategies through lead-up games and activities. Exposure to a variety of skills and sports objects, with an emphasis on accurate proportional renderintroduction to Chinese language and as they are introduced to basic literary numbers, and solving equations—are physical features, climates, soils, vegetation, genetics, plant and animal life cycles and allows the student to build motor development. Students also participate in the Presidential culture. Oral communication skills are ing, along with different ways of rendering space using terminology and techniques. Through natural resources, and demographics will be presented in an integrated approach as an adaptations, and ecosystems are some of Physical Fitness Test at the beginning and end of the school year. simple lines. Studies in Art History cover an introduction the primary focus, but students are also critical reading, students learn the introduction to algebra. studied. Study skills and time management the concepts covered in the life science to the esthetic and evolution of art from the primitive forms introduced to the written characters. They intricacies of style and technique used practices will also be taught. unit. In the physical science unit, the Electives — Grades 6-8 of the prehistoric period, to architectural monuments of will learn to both write and read Chinese by authors to craft complex plots and periodic table of elements is introduced. and Middle School students engage in elective courses during 5th hour. These electives are characters and develop an understanding ancient Egypt, to the highly advanced figure sculpting of themes. In addition, students undertake students learn such concepts as state and meant to provide a time for the students to study a topic that may not be part of their for the language and its origins. the Greeks. an intensive study of grammar, from structure of matter, light, sound, chemical core course of study, or allow them to study a particular topic of interest in more depth. parts of speech through the rules of Middle School Instrumental Ensemble reactions, motion, and electricity. The earth's Examples of such electives are Middle School Musical, Team Sports, Book Club, Robotics, Students elect this class instead of Middle School general punctuation. During the year, student composition, earthquakes, volcanoes, and History Day, STEM, Sculpture, Strategic Games, and Drama. compositions will expand from paragraph music. Students play Clarinet, Flute, Trumpet, Trombone, the solar system are concepts covered in to complete essay, with careful attention the earth/space unit of the course. Students Sax, Bass, Violin, Viola, Cello, Percussion, etc. MSIE given to rhetorical forms and modes. engage in many hands-on laboratory students perform at Middle and Upper School concerts activities and write lab reports for these throughout the year, and also as smaller ensembles at activities. Algebra I- Grades 7-8 **United States History** GRADE This course builds upon the skills Life Science Latin Seventh grade students learn ceramics, using several foundation laid in 6th Grade English, Building on the basics of pre-algebra, Life Science introduces students to the The United States History course is a survey classic methods of vessel making: coil building, slab Introduction to Latin with students continuing their study of this course focuses on solving linear, fundamental concepts common to the study course based on a frontier theme. It covers building, and pinch building. Their training in drawing This course introduces the student to the quadratic, radical, and rational equations the history of this country from the colonial literary forms and genres. Students will of life. The course offers a basic study of includes an introduction to the use of formal perspective essentials of Latin grammar, reading, and and inequalities. A graphical approach cells, genetics, and the diversity of living period to the present day through the lens of begin to synthesize the elements of fiction translation skills; its ultimate goal being the in rendering deep space and issues of human proportion and poetry in order to craft informed including domain and range—to the genera organisms. Life Science also addresses the American frontier. Special emphasis will as related to portraiture and basic shading techniques. shapes of some basic functions is also reading of original Latin literature. Proper be placed on the Constitutional principles of arguments about texts. They will be ecology and environmental science. Studies in Art History cover the Romanesque and Gothic pronunciation, the formation of nouns and presented as a tie between intercepts and government, major crises in the history of the introduced to the basics of poetic meter, periods of Medieval Art. adjectives, and the present and all past country, and the role of different leadership poetic terminology, and more complex zeros. Factoring, systems of equations. exponents, and radicals also receive styles in shaping our republic. Students will tenses of the indicative mood are studied poetic forms. The study of grammar Middle School Instrumental Ensemble The student examines Roman culture emphasis in the course. also learn historical research methods and will focus on a review of verb tenses and Students elect this class instead of Middle School general through the medium of connected Latin writing skills. sentence diagramming. During the year, music. Students play Clarinet, Flute, Trumpet, Trombone, readings set in Pompeii and Roman Britain. Sax, Bass, Violin, Viola, Cello, Percussion, etc. MSIE students will study the various "modes" of essays, which may include Description, students perform at Middle and Upper School concerts Narration, Illustration, Comparison, throughout the year, and also as smaller ensembles at Causation, and Process Analysis. various events. This course begins to transition students Physical Science Ancient History Latin 1 Spanish 1 Chinese 1 **GRADE** The first half of this course concentrates This course is the first of a three year series This course develops the following linguistic from viewing texts as individual creations This course deals with basic chemistry and The fundamental method to learn Chinese This course stems directly from the Eighth graders confront problems of formal design - the to viewing them as products of culture. heavily on the deductive proof, focusing on physics—the two fundamental physical of courses that provide an in-depth look at domains: speaking, reading, writing, listening language is through Pinyin (a phonetic foundation laid in Introduction to Latin. issue of the expressive and successful use of compositional The texts studied, which include several proving lines parallel, triangles congruent, sciences. One semester is spent on each Western Civilization. This course traces comprehension and culture. Students will system used to help pronounce Chinese). Grammar is reviewed and developed. For strategies in visually resolving arrangements in twothe development of the Mediterranean For most sections of the Chinese AP exam, and polygons similar. The second half of the broad topic. A major goal of the course is dimensional space culminating in a four color printmaking novels, plays, and poems, parallel-in learn to express increasingly complex example, the past tenses of the indicative theme and subject-those which they World and Europe from prehistoric times mood are augmented by their equivalents in project. More work is done with portraiture and figure course emphasizes right triangles, circles to prepare students for the in-depth study thoughts relevant to their lives through the test is written in Chinese characters. will be examining in other courses. and tangents, areas of plane figures, and of the sciences encountered in the Upper to about 500 CE. Included in this course mastering the basic building blocks of Thus, emphasizing recognition of Chinese the subjunctive, and the participial system drawing, with an emphasis in charcoal medium and shading Students will undertake studies of the areas and volumes of solids are civilizations in Mesopotamia, Egypt, language: vocabulary and structure. They characters begins at this level. Students is developed. Latin readings set in the first techniques. Studies in Art History cover the Renaissance, Greece and Rome and the great stories and will also develop both cultural awareness century A.D. deal with the province of Britain Baroque, and Rococo periods. language of literature, types of genre, learn how to introduce themselves, ask and forms of poetry to interpret texts personalities of the Western tradition like and communicative skills through selected nationalities, describe body parts and and the city of Rome. from specific points of view. Grammar Cicero and Julius Caesar. Students will also audio-visual media features, say names of food and drinks, Middle School Instrumental Ensemble skills will be reviewed as students review continue to hone historical research and indicate time and date, express personal Students elect this class instead of Middle School general the essentials of argumentation and writing skills as a part of this course. hobbies, and discuss future dream careers. music. Students play Clarinet, Flute, Trumpet, Trombone, composition. Chinese culture, history, and idioms are also Sax, Bass, Violin, Viola, Cello, Percussion, etc. MSIE introduced. students perform at Middle and Upper School concerts throughout the year, and also as smaller ensembles at various events Middle School Vocal Ensemble — Grades 6-8 The MSVE allows students with a keen interest in music to develop their musical abilities. The choir sings two- and three-part music, with an emphasis on independent singing and using correct vocal skills. The MSVE performs at school events, concerts, and local contests.

THE UPPER SCHOOL PROGRAM

The Upper School program expressly prepares students for college. The curriculum emphasizes traditional liberal arts offerings featuring diverse subject areas and texts. The required program of study entails a three-year sequence of Biology, Chemistry, and Physics (AP or Applied), followed by a fourth year of an Advanced Placement Biology or Chemistry: four years of English, including two AP courses: a

minimum of three years of a foreign language; a math sequence through precalculus, plus a fourth year of a quantitative course (AP Calculus AB, AP Calculus BC, AP Music Theory, or AP Statistics) as the minimum requirement for graduation; and a history sequence beginning with ancient history in the eighth grade, progressing through medieval and AP European History in 9th and 10th grades. AP US History

Guided-inquiry laboratory work is intended

to be a significant component of this course,

with an emphasis on accurate record-keeping

and a mindful approach to laboratory work

and data analysis.

in $11^{\rm th}$ grade and an interdisciplinary Humanities course along with Economics and US Government and Politics in the senior year. The overall program includes 18 AP offerings. Interim Courses (January only) include Music Appreciation, Art History, Statistics, the Bible as Literature, Speech, Research Methods, and the Senior Mentorship Program.

TJ is a member of MSHSAA and the Ozark Seven Conference and fields high school teams in cross-country, volleyball, basketball, tennis, soccer, golf, swimming, and track and field.

Chemistry, and Physics (AP or Applied), followed by a fourth year of an Advanced Placement Biology or Chemistry; four years of English, including two AP courses; a a history sequence beginning with ancient history in the eighth grade, progressing through medieval and AP European History in 9th and 10th grades, AP US History History, Statistics, the Bible as Literature, Speech, Research Methods, and the Senior Mentorship Program. **World Languages** English Math Science History Geometry- Grade 9 **Medieval History** Biology Spanish Latin Chinese Other Upper School Offerings GRADE Students begin the Upper School English The first half of this course concentrates This course develops concepts introduced This course is the second of a three year program with an introduction to literary heavily on the deductive proof, focusing on in the seventh grade Life Science course: series of courses that provide an in depth and rhetorical schemes and tropes. proving lines parallel, triangles congruent, look at Western Civilization. This course molecular and cellular processes and Spanish II Latin II Chinese II Physical Education — Grades 9-10 Reading works that correspond to the time and polygons similar. The second half of principles of heredity. The course also traces the development of the Mediterranean This course is designed to expand upon the This course continues the development This course, a direct continuation of the The physical education program required of freshmen and period and culture that they are studying the course emphasizes right triangles, World and Europe from about 500 CE to focuses on human anatomy and physiology knowledge gained in the sixth grade and of the speaking, reading, writing, and work undertaken in the seventh and eighth sophomores offers each student opportunities to improve circles and tangents, areas of plane figures in history class, students will explore the as well as surveying the plant and animal 1700 CE. The course covers early church listening comprehension skills introduced in grades, begins a process that will culminate eighth grade course. Students will continue personal fitness levels and to develop lifetime habits of ways in which literature can reflect and and areas and volumes of solids. history, Byzantium, Islam, the Franks, to study both the oral and written language Spanish I. Constant review and introduction in Advanced Placement studies in the senior physical fitness and recreation. The course provides respond to world events. Students review feudalism and manoralism, the Crusades, the of increasingly complex grammatical year. Students encounter increasingly in addition to studying Chinese culture. assessments, instruction, guidance, and activities to critical reading skills as they practice the Protestant Reformation, the Renaissance Students will engage in written assignments concepts, weekly oral presentations, journal complex grammatical constructions, address weaknesses and enable students to lead more art of argumentation through a study of Exploration and Discovery, and the writing, appropriate internet activities. as well as the creation of oral presentations including various uses of the subjunctive productive lives throughout school and afterward. traditional forms and patterns. In addition development of nation-states. Students will in the Chinese language. and ample opportunity for self-expression mood. Readings encompass Roman Britain Algebra II- Grades 9-10 students begin to formally engage outside also continue to hone historical research and enable the students to address that which Electives — Grades 9-12 This course begins with a review of Algebra and life in Imperial Rome sources in their writing, as research skills writing skills as part of this course. is relevant to their lives. Upper School students have two elective periods, and I in greater depth and degree of difficulty. are introduced. selections include: Upper School Instrumental Ensemble Students solve systems of equations using Upper School Vocal Ensemble, Publications, Art, Robotics. matrices and determinants; higher order Intro to Coding, Historical Research Methods, Study Hall, systems and systems of inequalities are English II **Advanced Placement European History** Spanish III Latin III Chinese III Speech and Debate, AP Computer Science (Grade 12), GRADE introduced. Complex solutions, irrational Each week, the class is asked to memorize Students trace the development of English This course introduces students to the This course is the third of a three-part series Students will continue to pursue the This course marks the end of the AP Music Theory (Grade 12), AP Studio Art: 2-D Design functions, synthetic and long division of literature throughout the year as they study of matter and energy, including its of courses covering the origins and growth objectives of Spanish I and II by emphasizing Cambridge Latin Series and concludes the basic Chinese characters for the basic (Grade 12), and more, polynomials also receive attention. The encounter texts from a variety of genres composition, structure, and changes it of Western Civilization. The course covers fluency and correctness of oral and written sequential study of grammar begun in Latin level of vocabulary and dialogue. Students course also places great emphasis on and cultures. Students are introduced to undergoes. Among its many topics, the the Enlightenment, the French Revolution expression. Cultural appreciation and I. Students begin to read original Latin are able to describe body parts, physical exponential and logarithmic functions and literary theory as it relates to political and course covers the structure of the atom, and Napoleon, the Congress of Vienna, the communications skills are developed literature by Martial, Catullus, Cicero, Ovid. and emotional feelings, and common social history of the English diaspora. The electron configuration, chemical bonding development of nationalism, industrialism through careful reading of selected texts Vergil, and Pliny the Younger. medical symptoms and treatments, and Fronomics- Grade 12 study of poetry is highlighted as students the proper naming of compounds, and the and imperialism, the unification of Germany and focused attention to movies and videos vacation plans. Chinese culture and idioms The one semester course in economics, based on the review the basics of meter and form as mathematics of chemistry and Italy, World War I, World War II, and from throughout the Spanish-speaking world are covered while students can read and principle of the study of choice under scarcity, provides comprehend a basic level of a story in they relate to meaning. Student writing Furonean division and unity in the postwar Readings include excerpts from Spanish students with basic principles of economics, and how the era. The students will also learn historical continues to build on the skills learned in and South American authors, articles Chinese characters. Students also begin to economy works through an appreciation of the history of type assignments in Chinese characters. English I, as secondary source materials research methods and writing skills. from current periodicals, and appropriate economic thought. The course covers economists Adam become commonplace, and students begin internet activities. Students are expected Smith, Thomas Malthus, John Maynard Keynes and others Precalculus- Grades 10-11 to enter into existing literary arguments. to participate freely in all discussions and to as students consider whether the masters elucidated This course covers conic sections. communicate only in Spanish. universal truths that anticipated the present international sequences, series, and probability, among its many topics. As a precursor of calculus. trigonometry receives substantial emphasis Humanities- Grade 12 Spanish IV Latin IV Chinese IV The fourth quarter is devoted largely to the AP Language and Composition **Applied Physics** Advanced Placement United States History An interdisciplinary course integrating history, literature, Memorizing and being able to recognize This course refines the students' This course is a preparation for Advanced **GRADE** study of limits and basic derivatives. Students will trace the development of The first half of the course will give students This course provides students with the philosophy, political discourse, and the fine arts, the understanding of Spanish grammar and Placement studies. Students read Chinese characters is crucial for success American literature from the colonial a foundation in classical mechanics - the opportunity to use analytical skills and Humanities class is required of all seniors. The class continues to insist upon fluency and selections from Latin prose authors. Caesar. on the AP exam, therefore, this course is period through today via a study of short study of motion, forces and energy. During factual knowledge to deal systematically simulates a college class in a variety of ways: it invites correctness of expression, while honing Livy and Cicero. designed to prepare students to recognize stories, plays, novels, poetry, and essays. the second semester, the focus will shift to with problems in United States history. students to synthesize broad swaths of information and students' writing, reading, listening and and write in Chinese. While learning an Grammatical structures will be reviewed oscillatory motion, waves, electricity and The course makes demands upon the ideas; it schedules discussions of entire texts rather speaking skills. Students read several advanced level of vocabulary and sentence as students seek to synthesize their magnetism. Lab work and analytical skills student equivalent to those of a full-year than discussing them in increments, requiring students short stories, short novels and excerpts structure, students begin to be exposed to Advanced Placement Calculus AB or BC composition and literary analysis skills are important throughout the course. introductory college course. It emphasizes to organize their study time as they will in college; and from longer novels, keep a personal journal AP practice questions. The class should be (1st and 2nd year)- Grades 11-12 in preparation for the AP exam. Student the assessment of historical materials write formal and informal essays, and they it integrates several disciplines-art, history, literature, able to comprehend a given set of pictures These college courses prepare the student write several argumentative essays in terms of relevance, reliability, and political analysis. The course resembles a college course in prepare oral presentations and written and type a complete story in Chinese for the Advanced Placement exams and on American literature and society. importance. that it relies on a few formidable exams rather than several reports on assigned topics. Preparation characters. The students should also be further coursework in higher mathematics. **AP Physics** culminating in a research-based term materials for the Advanced Placement test a semester. A student learns then that a great deal rides on able to read e-mail requests and respond The courses focus on limits, derivatives, This university level, algebra-based course paper on an aspect of American culture. a few major tests. and make recommendations in Chinese are used frequently instructs students in solving problems in and integrals. The first-year students study characters. the fields of classical mechanics, energy, tangent line problem; rates of change electricity, waves and sound. Lab work is including position; velocity, acceleration. designed to develop expert problem-solving change, and area under a curve. **Interim Courses** skills and reinforce the application of AP U.S. Government and Politics AP Spanish Language & Culture **AP Latin** AP Chinese Language & Culture **Advanced Placement Statistics- Grades** mathematical skills, including the analysis of AP Literature and Composition The government course is designed This course provides an opportunity for Students study from the Latin Literature The Chinese AP exam consists of sections of Interim alters the content and rhythm of the year during experimental data using graphs. Reflecting a typical two-semester to provide students with an analytical AP syllabus. The emphasis is on literal advanced students to pursue further studies listening, reading comprehension, speaking, the month of January. The month-long program replaces GRADE college English course, the class takes The AP Statistics course emphasizes data perspective on the political system of the through exploring Hispanic literature and translation, knowledge of metrics and writing. For most sections of the exam, English and History courses with interdisciplinary classes collection, summary, and analysis. The a chronological approach to the English United States. The course makes demands culture. Reading selections come from and figures of speech, and literary the test is written in Chinese characters. that supplement the traditional program. Courses include: literary canon from Beowulf through postcourse addresses the underlying concepts upon the student equivalent to those of a Advanced Placement Biology the required reading list for the AP Exam interpretation. Students refine their Thus, memorizing and being able to modern poetry. Students write several of modern statistics. Units of study will The AP Biology course is designed to be the equivalent of a college introductory course college-level introductory political science and students expand their abilities to command of advanced Latin grammar. recognize Chinese characters is crucial for Statistics - Grade 9 inter-disciplinary essays, several of include probability and the four major topics course. The course covers the following communicate in speaking, listening, reading success on the AP exam. The class covers Bible as Literature - Grade 9 which focus on the explication of poems given by The College Board; exploring data, topics: the U.S. Constitution, the National and writing. The end goal of this course is topics on customs, daily life, education, for biology majors. Students are prepared Music Appreciation - Grade 10 and plays. Grammatical concepts and planning a study, anticipating patterns, and Government (Legislative, Executive, and to prepare students to take and pass the economics, geography, family, and for the AP exam by investigating three major Art History - Grade 10 literary terms will be reviewed as students statistical inference. Judicial branches), civil rights and civil Advanced Placement Spanish Language and topics: molecules and cells, heredity and entertainment. All four sections appearing Speech - Grade 11 prepare for the AP exam. liberties, political beliefs and behaviors, Culture exam. on the AP exam are covered during each evolution, and organisms and populations. Research Skills - Grade 11 political parties, interest groups, media, and topic. Chinese culture, history, and idioms Senior Mentorship - Grade 12 public policy. **Advanced Placement Chemistry** are also discussed on a daily basis. **AP Spanish Literature & Culture** The AP Chemistry course is designed to This course introduces students to the be the equivalent of the General Chemistry formal study of a representative body course taken in the first year of college. of texts from Peninsular Spanish, Latin Major areas of study include the structure America, and the U.S. Hispanic literature. of matter, bonding and intermolecular The course provides opportunities for forces, chemical reactions, kinetics, students to demonstrate their proficiency thermodynamics and chemical equilibrium in Spanish across the three modes of

communication (interpersonal, interpretive

and presentational), and the five goal areas

comparisons, and communities) outlined in

the Standards for Foreign Language Learning

(communication, cultures, connections,

in the 21st Century.

Our Mission:

Through a dedication to academic excellence, Thomas
Jefferson Independent Day School stands accountable
for educating students to make the most of their
abilities. The School educates students to acquire and
refine essential academic knowledge and skills; cultivate
an appreciation of the arts; develop lifelong fitness
skills; assume responsibility for their behavior; seek
out challenge, welcome criticism, test new capacities;
practice self-discipline; and find joy in learning. The
school brings students together with teachers who
exemplify intellectual curiosity, a dedication to truth,
and the advantages of living the examined life.

