



High School Course Catalog  
2015-16

## 2015-2016 High School Course Catalog

The following pages contain descriptions for courses offered at Holy Spirit Preparatory School. Please note that some courses will not be offered for the 2015-2016 school year. If a course is not being offered during the 2015-2016 school year, there will be a **bold** statement at the end of the course description stating such.

In addition, please be aware of the following policy changes that will go into effect beginning with the 2015-2016 school year:

### Advanced Placement (AP) Course Enrollment

All students enrolled in an Advanced Placement (AP) course will be required to take the AP Exam in May. Payment for the exam will be collected after the drop/add period in the fall.

### Midterms & Final Exams for Elective Courses

A midterm and final exam or project may be required in any elective course at the discretion of the Department Chair. Elective courses are defined as any course that a student is enrolled in that exceeds a graduation requirement.

**CLASSICS DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Greek I	Using <u>Athenaze, 2<sup>nd</sup> Edition, Book I</u> , students will study Chapters 1-7. They will be introduced to the ancient Greek language, as well as the culture and mythology of the classical age (5 <sup>th</sup> century BC) of Athens. <b>Language:</b> Students will learn the present tense, active and middle voice, of regular, epsilon-contract, and alpha-contract verbs, first, second and third declension nouns, adjective-noun agreement, and the rules governing Greek accents. By the end of the year, students will have mastered a vocabulary of about 220 words in ancient Greek. <b>Culture:</b> They will learn about the daily life of a typical 5th century BC Athenian farm family. <b>Mythology:</b> They will learn about the rise of the Olympian gods and goddesses and will read selected stories about each of the major deities. They will also begin reading in Greek stories from Homer's Odyssey. <b>Christianity:</b> Students will memorize the Lord's Prayer in the original Greek and will begin to read easy passages from St. Luke's Gospel.	None	Year
Greek II	Students will continue to study <u>Athenaze, 2nd Edition, Book I</u> , Chapters 8-13. <b>Language:</b> Students will learn all three noun declensions, alpha-contract verbs, middle voice and deponent verbs, present participles, and the future tense. <b>Culture/History:</b> They will learn about ancient Greek religion and religious festivals, especially the Festival of Dionysus in Athens. They will learn about the history of Athens and the geographical features of Athens. <b>Mythology:</b> They will read episodes from Homer's Odyssey and be introduced to the life and labors of Heracles. <b>Christianity:</b> Students will learn various liturgical prayers and will continue to read selections from St. Luke's Gospel.	Greek I	Year
Greek III	Students will finish <u>Athenaze, 2nd Edition, Book I</u> , Chapters 14-16, and will begin <u>Athenaze, 2nd Edition, Book II</u> , Chapters 18-19. <b>Language:</b> Students will learn the imperfect and aorist verb tenses, the passive voice, comparison of adjectives, and relative clauses. <b>Culture/History:</b> Students will learn about ancient Greek medicine, the rise of the Persian Empire, the Greek-Persian Wars of the early 5th century BC, and the rise of Athens as an imperial power. <b>Mythology:</b> Students will be introduced to important stories from the lives of Greek heroes (Theseus, Perseus, etc.). <b>Christianity:</b> Students will continue to read selections from St. Luke's Gospel (e.g. the Sermon on the Mount, parables, the Nativity of Jesus).	Greek II	Year
Latin I	Using <u>Ecce Romani, Book I</u> , students will learn vocabulary, grammar, and culture by reading stories about a patrician Roman family of the first century of the Roman Empire. <b>Language:</b> Students will learn all how to conjugate indicative verbs and decline 1st-4th class nouns. They will write simple sentences and answer comprehension questions about paragraphs and stories. By the end of the year, students should be able to recognize over 250 vocabulary words & phrases. <b>Culture/History:</b> Students will be able to discuss ancient Roman attire, households, entertainment, practices such as slavery, and features of the city of Rome. <b>Mythology:</b> Students will be able to match the Greek Olympians with their Roman counterparts. They will be able to tell the foundational stories of Rome and of its early heroes. <b>Christianity:</b> Students will pray the Lord's Prayer, the Hail Mary, the Glory Be, and they will learn to sing several parts of the Mass.	None	Year

CLASSICS DEPARTMENT

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Latin II	Using <u>Ecce Romani, Books I and II</u> , students will learn vocabulary grammar and culture by reading stories about a patrician Roman family of the first century of the Roman Empire. This includes their travels around Europe and daily lives in rural and urban settings. <b>Language:</b> Students will learn how to parse 1-4th conjugation verbs and recognize tense and mood. They will write complex sentences and answer comprehension questions about stories and grammar. By the end of the year, the students should be able to recognize 400 vocabulary words as well as important phrases. <b>Culture/History:</b> Students will be able to discuss the political developments of Rome. They will be familiar with inherited Greek traditions as well as become familiar with Roman expansion. They will recognize the names of key individuals and places in the Roman world. <b>Mythology:</b> Students will study the major Greek and Roman mythological stories as well as cover the heroic traditions and worship practices of the people of Rome. <b>Christianity:</b> Students will pray the Lord's Prayer, the Hail Mary, the Glory Be, and continue to study several parts of the Mass.	Latin I	Year
Latin III	Continuing in <u>Ecce Romani, Book II</u> , students will learn vocabulary, grammar, and culture by reading stories about a patrician Roman family of the first century of the Roman Empire. This includes their travels around Europe and daily lives in rural and urban settings. <b>Language:</b> Students will learn how to parse all nouns and verbs as well as recognize tense, mood, clauses, and the varying functions of different cases. They will write complex sentences and answer comprehension questions about stories and grammar. By the end of the year, the students should be able to recognize 600 vocabulary words as well as important phrases. They should be comfortable reading and recognizing participles and the passive voice. <b>Culture/History:</b> Students will have a working knowledge of the history of ancient Rome up to the reign of Hadrian. This will include important political and military events with an expanded focus on Rome's relationships to its neighbors in the Mediterranean. <b>Mythology:</b> Students will study the major Greek and Roman mythological stories as well as ceremonies of the ancient Romans. They will cover a wide range of Greek tales which influenced Roman beliefs and practices. <b>Christianity:</b> Students will pray the Lord's Prayer, the Hail Mary, the Glory Be, and continue to study several parts of the Mass.	Latin II	Year
Latin IV	Using <u>Ecce Romani, Book III</u> , students will engage important primary texts from Rome's Golden age, including works from Cicero, Caesar, Pliny, Plutarch and Eutropius. <b>Language:</b> Students will continue their studies of Latin grammar, especially with regard to subjunctive verbs, impersonal constructions, and gerunds, as they encounter them in the context of the authentic writings. They will continue to expand their Latin vocabulary and will create sophisticated translations of the texts they encounter. <b>Culture/History:</b> Students will study the transition from Republic to Empire in detail, paying special attention to the personalities that shaped that process. <b>Mythology:</b> Students will analyze the stories Romans enjoyed hearing with the goal of better understanding the people of ancient Rome. <b>Christianity:</b> Students will compare the culture and values of ancient Romans with those of the early Christians and will consider the ways Christianity made an impact on Roman life.	Latin III	Year

**CLASSICS DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
AP Latin	Students will read all selections of Vergil's <u>Aeneid</u> and Caesar's <u>Gallic War</u> in Latin as specified by the College Board's syllabus for AP Latin. Students will study and master the vocabulary, forms, syntax, translation skills, metrics, poetic figures, literary, social, political, and cultural knowledge necessary for careful understanding of AP Latin syllabus. Students will also read selections from Vergil's <u>Aeneid</u> and Caesar's <u>Gallic War</u> in English in order to put the Latin excerpts in a significant context in preparation for the free-response section of the exam. Collateral readings of literary critical, historical, social, and cultural perspectives on the core periods of the late Republic and the early Principate will be assigned regularly. Additionally, students will practice sight reading from Ovid, Catullus, Cicero, and Horace in preparation for the multiple-choice part of the exam.	Latin IV Dept. Chair Rec.	Year

**ENGLISH DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Literature of the Western World	This course focuses upon classics of the Western World from Ancient Greece through contemporary times. Students are guided to recognize universal themes, symbolic patterns, and social values within classical Western literature as well as its historical context and influence. The course integrates the study of literature and the practice of essay writing, both in and out of class, with further study of the writing process. Students will strengthen their understanding of the characteristics of narrative, informative, and argumentative writing. Throughout the year, the students will be responsible for vocabulary development, outside reading, and standardized testing preparation.	None	Year
Accelerated Literature of the Western World	This course focuses upon classics of the Western World from Ancient Greece through contemporary times. Students are guided to recognize universal themes, symbolic patterns, and social values within classical Western literature as well as its historical context and influence. The course integrates the study of literature and the practice of essay writing, both in and out of class, with further study of the writing process. Students will further their understanding of the characteristics of narrative, informative, and argumentative writing. Throughout the year, the students will be responsible for vocabulary development, outside reading, and standardized testing preparation. Students in this course will engage in a deeper analysis of texts in addition to employing more sophisticated techniques in their writing.	None	Year
American Literature	American Literature focuses upon classics of American literature from the colonial to the modern period, guiding students to recognize the historical context of American Literature as well as its influence. The course integrates the study of literature and the practice of essay writing, both in and out of class, with further study of the writing process. Students will learn to develop their style while reviewing and practicing the form, organization, and flow of the analytical and research essay writing. Throughout the year, the students will be responsible for vocabulary development, outside reading, and two term papers examining the history of American Literature.	None	Year

**ENGLISH DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Advanced Composition	Advanced Composition is designed to enhance students' proficiency in writing across every discipline and for a variety of purposes. Through an in-depth study of the writing process and authors' techniques, students will refine their ability to produce coherent, organized, and well-developed essays. In examining both literary and non-literary texts, written for different purposes and in varying styles and contexts, students will analyze and reflect upon their own writing. Vocabulary and grammar instruction is integrated in order to strengthen students' understanding and application of the conventions of the English language.	None	Year
AP English Language and Composition	The AP English Language and Composition course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. Through their writing and reading in this course, students will become aware of the interactions between a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. The course aims to guide students in defining and recognizing the techniques applied to non-fiction and rhetorical writings and to prepare students for the AP English Language Exam.	Literature of the Western World and American Literature or transfer equivalent / Dept. Chair Rec.	Year
British Literature	British Literature is a comprehensive survey of British literature in all its brilliant diversity. Students will read, study, and analyze various plays, poems, and novels emanating from the United Kingdom, recognizing the historical context of British literature as well as its influence. Students will begin to conduct sophisticated research culminating in an <u>extensive, college-level research paper</u> .	Literature of the Western World and American Literature or transfer equivalent	Year
AP English Literature and Composition	The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. As they work to read and analyze fiction writing at a college level, students will gain experience in using literary critiques as sources in writing, as well as developing their own literary criticisms.	American Literature, Literature of the Western World, and Advanced Composition or AP English Language and Composition/ Dept. Chair Rec.	Year
Short Stories	The aim of the Shorts Stories and Composition elective is to expose students to techniques and themes prevalent in short works of fiction from various authors and literary eras and to guide students in applying these techniques as they compose their own fictional narratives. While the course focuses primarily on reading and composing narrative writing, students will have opportunities to refine their analytical skills and to engage in in-depth discussions, <u>reinforcing skills they have learned in previous English courses</u> .	None	Semester
Journalism - Paraclete	Journalism focuses on journalistic principles and practices of the news media. The primary objective of the course will be to produce quality, journalistically sound news articles for the school newspaper, <u>The Paraclete</u> .	None	Semester
Productions- Yearbook	Students in this class will learn the basics of Adobe InDesign and Adobe Photoshop, editing, layout and visual presentation. In addition to learning these technical skills, students will gain experience in teamwork and communication, organization of large amounts of data, maintenance, and comprehension and planning of an intensive, year-long project while they put together The HSP Yearbook.	None	Semester

**FINE ARTS DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Introduction to Photography	In this course, students will gain an understanding of the history and tradition of photography and its place in the world. Class members will develop visual literacy by studying and viewing other photographers work as well as producing their own. Students will learn the basic mechanics of how a digital camera works. The course will emphasize mastering manual controls on the digital camera and creative techniques. This is a class on basic photography with an emphasis on photojournalism and editorial photography. All students are required to have a digital camera with manual controls. It is recommended that the student have access to a 35 mm single lens reflex digital camera.	None	Semester
Intro to Studio Art	This course serves as an introduction to studio art and the elements of art. It meets the basic arts requirement for graduation. It is the foundation course to all Fine Art classes at HSP. Content is covered in small unit based projects and a variety of media and technique will be explored.	None	Semester
Studio Art I	This course is for those who intend on continuing their studies in studio art. Elements discussed in the intro class will be explored further and intermediate drawing and painting techniques will be taught. Emphasis will be placed on composition, drawing rules, and major art movements from history.	Intro to Studio Art or Dept. Chair Recommendation	Semester
Studio Art II	In this class, students explore more advanced techniques in oil painting, portraiture, monotype printing, and sculpture. The main focus of this course covers the chronology of art movements throughout history.	Intro to Studio Art	Year
Studio Art III	This course focuses on the formation of concept and design. Projects are loosely structured and alternative processes are explored. Projects include: action painting, plaster carving, illustration, and ink work. All assignments are assessed based on theme, concept and the ability to express ideas and social issues. The research portion of this class requires frequent gallery visits outside of school hours. Student directed projects may require the purchase of additional supplies.	Studio Art II	Year
Studio Art IV	This class is a continuation of the concepts and techniques covered in both Studio II and III. Studio IV is a chance for students to develop an independent body of work. Students will be expected to complete a series of 6 specific assignments in the first semester of this course and will spend the second semester working on a self directed series of related pieces to be shown in an end of the year exhibition. Student directed projects may require the purchase of additional supplies.	Studio Art II	Year
AP Studio Art	This is a portfolio class that is entirely structured by the students. Each student is required to complete a minimum of 24 art pieces over 2 semesters. This class requires summer work and weekly studio hours outside of class. This is not a course for the "leisure" artist; it is strongly recommended for those students wishing to pursue art after high school and who have the drive and responsibility to work independently. Student directed projects may require the purchase of additional supplies.	Studio Art III Dept. Chair Rec.	Year
Music Appreciation	Music Appreciation introduces students to the fundamental principles of music. Students will examine music of various genres – from baroque and classical to jazz and pop – to develop an appreciation for how the elements of music have changed throughout history and across cultures. Students will also learn the distinguishing qualities of different musical styles and instruments so as to be able to identify them by ear. A particular emphasis is placed on learning the basics of reading musical notation, the <i>language</i> of music. No prior knowledge of music theory or performance is required to take this course.	None	Semester

**FINE ARTS DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Music Performance	Music Performance is for all students who seek to play in a mixed ensemble setting. Students with backgrounds in all instruments are encouraged to join this class. Students with or without musical backgrounds are also encouraged to sign up for this course. This course will meet during the daily class rotation and may periodically have rehearsals/performances outside of scheduled class time.	Music Theory I or Music Appreciation	Semester
Music Theory I	Music Theory I is an introductory course that provides students with knowledge of the fundamental concepts of music theory. More specifically, this course seeks to teach students how to understand pre-existing music, as well as begin composing their own works. Basic foundations such as pitch, rhythm, scales, modes, melody, harmony, and transposition are covered within the curriculum. Students receive ample manuscript training, learning how to properly scribe notation.	None	Semester
Theatre Arts I	The purpose of the Theatre Arts I elective is to introduce students to theater as an art form through the planning and production of scenes. During class time, all students will participate in activities and exercises that develop acting and public speaking skills.	None	Semester
Theatre Arts II	Theatre Arts II elective expands on the principles and skills introduced in Theatre Arts I. At this point, the student begins to focus more either on the performance or the production side of theatre. Scene work more becomes more challenging and the staging more elaborate to match the student's developing skills and knowledge base.	Theatre Arts I	Semester
Musical Theatre	The students in this class will produce the Spring Musical. At the start of the semester, students will audition for roles. Following casting, some students will work on characterization, acting, staging and learning the music for the show. Everyone will also be responsible for production assignments, such as serving as the Assistant Director, Stage Manager, program design to name a few. The class will assume full responsibility for the show's performance later in the semester.	Theatre Arts and/or performed in at least 1 Upper School production in the last 2 yrs or Dept. Chair Rec.	Semester
Play Production	The purpose of the Play Production elective is to allow students to gain high level experience in theater as an art form through the planning and production of a full length play. During class time all students will participate in activities and exercises that explore aspects of the three key artistic skill areas of creating, performing, and producing a play. Additionally, each member of the class will serve in either an acting or stage management role to successfully plan and produce the play selected.	Theatre Arts and/or performed in at least 1 Upper School production in the last 2 yrs or Dept. Chair Rec.	Semester
Choral Music	In this course, students will prepare choral music for liturgies and other special events on behalf of the Holy Spirit school community. The class will help students develop skills in part singing, vocal technique, musical phrasing and interpretation, and breathing and posture. Repertoire will be drawn from the variety of musical styles appropriate to a liturgical setting. Students taking this course must attend weekly meetings during the lunch hour and monthly Sunday performances throughout the school year.	None	Year

**FOREIGN LANGUAGE DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Spanish I	This introductory course is designed for students with little to no Spanish language background. This course which will incorporate many components including use of the online textbook Supersite and grammar tutorials. Topics covered include conjugation of verbs in the present and present progressive tenses, greetings, numbers, ser v. estar, direct object pronouns, present and preterite tenses, reflexive verbs, double object pronouns, prepositions, superlatives, and cultural information about Cuba, Peru, Guatemala, and Chile, Spain, Ecuador, Mexico, and Puerto Rico. Students will also read various poems and song lyrics. Students will take the National Spanish Exam.	None	Year
Spanish II	This course will review and expand upon vocabulary and grammar introduced in SPN I with the use of the online textbook Supersite, grammar tutorials, and voice recordings. Topics covered include preterite and imperfect tenses, present and past perfect, future and future perfect, conditional and conditional perfect, commands, present and past tense subjunctive mood, and cultural information about Costa Rica, Argentina, Panama, Colombia, Venezuela, Bolivia, Nicaragua, Paraguay, and Uruguay. Students will read various poems and short literary selections and take the National Spanish Exam.	Spanish I	Year
Spanish III	This course will review and expand upon vocabulary and grammar introduced in SPN II through the use of the online textbook supersite and grammar tutorials, and voice recordings. Topics covered include an overall review of tenses introduced in SPN III including, but not limited to: preterite and imperfect tenses, present and past tense subjunctive mood and perfect tenses. Students will also watch chapter themed short films, read multiple literary selections, host debates, study current event topics and take the National Spanish Exam.	Spanish II Dept. Chair Rec.	Year
AP Spanish	This course will prepare students to take the AP Spanish Exam. Exam format, advanced grammatical structures, literature, and culture of various Spanish-speaking countries will be the focus of this course. Students will write essays, record simulated conversations, host debates, research and write current event articles, and complete various AP preparation exercises.	Spanish IV Dept. Chair Rec.	Year
Mandarin III	Mandarin III has been designed for students who have completed Mandarin Level II or who possess the equivalent language skills. The course, which continues the systematic and balanced introduction to speaking, reading and writing Mandarin, will expand students' ability to function in Mandarin and will help students express themselves in practical, professional and academic settings. Major topics include: classroom conversation, school life, expressing feelings, giving and following directions, weekday and weekend activities, size and shopping, and modes of transportation. Cultural topics include: Introduction of ancient poems and poets, Chinese minorities and Autonomous Regions, Confucius and Analects, and concept of Feng Shui.	Mandarin II	Year

**MATHEMATICS DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Algebra I	Algebra 1 is a bridge from the concrete to the abstract study of mathematics. This course introduces basic algebraic skills in a logical order, including relations, functions, graphing, systems of equations, radicals, factoring polynomials, rational equations, probability and statistics, and quadratic functions. It emphasizes practical methods of solving first- and second-degree equations and inequalities. This course emphasizes the language, concepts, and techniques that will prepare students to approach and solve problems following a logical succession of steps. Skills taught in the course lay groundwork for upper level math and science courses and have practical uses in everyday life.	Intro to Algebra or comparable PreAlgebra / Dept. Chair Rec.	Year
Accelerated Algebra I	This accelerated course, incorporating the consistent use of real numbers and a problem solving approach, emphasizes the principles of algebra, including algebraic symbolism, simplifying complex expressions, solutions to linear and quadratic equations, and graphic representations associated with variables. Students will apply algebraic representations to word problems and analyze the nature of changes in linear and non-linear relationships. Skills taught in the course serve as a bridge from the concrete to the abstract study of mathematics, lay groundwork for upper level math and science courses, and have practical uses in everyday life.	Intro to Algebra or comparable PreAlgebra / Dept. Chair Rec.	Year
Geometry	Covered in this course are the concepts of right triangle trigonometry, vectors, solving triangles, two-dimensional and three-dimensional figures and their properties, logical reasoning and the development of formal proof using theorems and postulates, transformations, congruence, symmetry, and linear functions. The instruction emphasizes visualizing and understanding Euclidean geometric properties and mathematical relationships, making and verifying conjectures, and applying geometric concepts to real-world situations. Makes extensive connections between geometry and algebraic properties learned earlier. This course includes the use of geometry software to allow for discovery, investigation, and verification of geometric concepts and properties.	Algebra I / Dept. Chair Rec.	Year
Accelerated Geometry	This course covers all of the topics in the Geometry course in greater depth and at a more abstract level. In addition, students are given the opportunity to explore non-Euclidean geometries and an introduction to circular trigonometry. Greater attention is given to making and verifying conjectures and using algebraic techniques to develop geometric concepts.	Accelerated Algebra I / Dept. Chair Rec.	Year
Algebra II	This course emphasizes facility with algebraic expressions and forms, powers and roots, and functions. Functions (linear, quadratic, polynomial, rational, exponential, and logarithmic) are studied both for their abstract properties as well as their usefulness as tools for modeling realistic situations. These functions are analyzed in their algebraic (symbolic) forms and their graphical representations. This course also includes an introduction to complex numbers, conic sections, and solving systems of equations using matrices. A graphing calculator is required for this course.	Geometry or simultaneous enrollment in Geometry/ Dept. Chair Rec.	Year

**MATHEMATICS DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Accelerated Algebra II & Trigonometry	This course covers all of the topics in the Algebra II course in greater depth, as well as a full treatment of trigonometry. This course is designed to be immediately followed by AP Calculus AB. This course will cover quadratic, polynomial, rational, exponential, and logarithmic functions, nonlinear systems of equations, conic sections, and a full treatment of trigonometry, including solving triangles, transformations of trigonometric graphs, inverse trigonometric functions, verifying and applying trigonometric identities, and solving trigonometric equations. Students will be asked to combine and apply ideas, tools and reasoning from across their mathematical foundation to address a variety of questions. A graphing calculator is required for this course. The department chair recommendation is strictly enforced for this highly accelerated class.	Accelerated Geometry or simultaneous enrollment in Accelerated Geometry/ Dept. Chair Rec.	Year
Algebra III / Trigonometry	This course is designed for students who have successfully completed Algebra II. This course will enhance the higher level thinking skills developed in Algebra II through a more in-depth study of those concepts and exploration of some pre-calculus concepts. Students will be challenged to increase their understanding and applied knowledge of algebraic, graphical and numerical methods to analyze, translate and solve quadratic, polynomial, rational, exponential and logarithmic functions. Modeling real world situations and the appropriate use of technology are important elements of this course. Functions will be used to represent and analyze real world problems and mathematical situations. The course will also include a further study of trigonometric functions, right triangles, and oblique triangles. <b>This course will not be offered during the 2015-2016 school year.</b>	Algebra II & Geometry / Dept. Chair Rec.	Year
Pre-Calculus & Trigonometry	This course furthers the study of the algebra, properties, graphs, and applications of polynomial, rational, radical, exponential, logarithmic, absolute value, and piecewise-defined functions. Trigonometric and circular functions are explored. This includes solving triangles, transformations on graphs of trigonometric functions, inverse trigonometric functions, verifying and applying trigonometric identities, and solving trigonometric equations. Additional topics covered include parametric and polar functions, and vectors. A graphing calculator is required for this course.	Algebra II & Geometry/ Dept. Chair Rec.	Year
Discrete Mathematics	Discrete Mathematics is a course that is designed to bring contemporary mathematical thinking to the non-specialist. Environmental and economic decisions dominate modern life, and behind these decisions are fundamental principles of science, technology, and mathematics. In this course, students will gain an awareness of these fundamental yet accessible principles as they spend time learning how the uses of mathematics can help them understand different parts of everyday life and the world itself. This course stresses the connections between contemporary mathematics and modern society, accommodating new ideas in mathematics, and their applications to our daily lives. Topics applicable to real world situations include: management sciences, statistics, voting and social choice, fairness and game theory, size and growth, and money and resources. Instruction in Excel as a mathematical tool will also be utilized in this course. <b>This course will not be offered during the 2015-2016 school year.</b>	Algebra II & Geometry / Dept. Chair Rec	Year

**MATHEMATICS DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
AP Statistics	This year long study of statistical analysis is designed to prepare students for the AP Statistics exam. The course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. This course will provide an excellent foundation in statistics applicable to any course of study in college involving the collection and analysis of data, including the physical sciences, biology, psychology, engineering, business, and political science. AP Statistics and AP Calculus BC will not be offered concurrently. Enrollment numbers will determine the course offered.	Algebra III or Pre-Calculus / Dept. Chair Rec.	Year
AP Calculus AB	This course is a study of one dimensional calculus designed to prepare students for the AP Calculus AB exam. The course can be broadly broken into three major sections: limits and continuity, differential calculus, and integral calculus. Topics include limits and continuity, differentiation of functions, extrema, related rates, the fundamental theorem of calculus, Riemann sums, volumes of solids of revolutions and known cross sections, separable differential equations, and slope fields. Applications to physics and economics are also considered. This course uses analytical, graphical, and numerical approaches to calculus. Problem solving, logical reasoning, and critical thinking skills will be emphasized throughout the course. A graphing calculator is required.	Pre-Calculus & Trigonometry / Dept. Chair Rec.	Year
AP Calculus BC	This is a second course in college level calculus with AP Calculus AB as a strict prerequisite. Students will be prepared for the AP Calculus BC exam, but the course will include a number of topics beyond the AP Calculus BC curriculum. Topics will include parametric, polar, and vector functions, integration using trigonometric substitutions, improper integrals, infinite series and polynomial approximations, and an introduction to multivariable calculus. Problem solving, logical reasoning, and critical thinking skills will be emphasized throughout the course. A graphing calculator is required. AP Statistics and AP Calculus BC will not be offered concurrently. <b>This course will not be offered during the 2015-2016 school year.</b>	AP Calculus AB / Dept. Chair Rec.	Year

**SCIENCE DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Biology with Lab	Biology is the science of life and life processes. The course will begin with the chemistry of life, ecosystems and communities, cellular structure and function, genetics, and evolution. The second semester will examine the five major kingdoms of living organisms and human anatomy. Students will have an opportunity to explore these concepts through writing and laboratory activities.	None	Year
Accelerated Biology with Lab	Accelerated Biology is intended for highly motivated students who wish to prepare for AP Biology. In addition to the course objectives covered in Biology, students will independently design and implement inquiry-based investigations, read and report on current research and topics in biology, and demonstrate a greater conceptual and in-depth understanding of course material. This course will include additional units of study to prepare students for the AP course.	Dept. Chair Rec.	Year
Physical Science	Students will spend the first semester of Physical Science studying physics and will learn about motion, forces, optics, electricity and magnetism, thermodynamics, and waves. The second semester will focus on atomic structure, bonding, chemical nomenclature, and reactions. Students who complete this course will have met their Physical Science/Physics graduation requirement and will not need to take Physics.	None	Year

**SCIENCE DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Chemistry with Lab	Chemistry is the study of atoms and molecules and their interactions with each other. The first semester of Chemistry will cover atomic structure, the Periodic Table, bonding, scientific measurements and calculations, chemical nomenclature, and reactions. In the second semester, students will study chemical composition, stoichiometry, energy, gas laws, solutions, acids and bases, kinetics, equilibrium, electrochemistry, and nuclear reactions. A variety of laboratory experiments will provide students with hands-on experience with these chemical principles.	None	Year
Accelerated Chemistry with Lab	The Accelerated course covers some additional topics (e.g., quantum numbers, resonance) and takes a more mathematical and in-depth approach. The Accelerated course will prepare students for AP Chemistry.	Dept. Chair Rec.	Year
Physics with Lab	Physics is the study of natural phenomena occurring in the physical world. Students will learn about motion, forces, momentum, work, power, energy, waves, light, sound, electricity, and magnetism. An overview of modern physics will be included. Physics is learned through observation, experimentation, critical thinking, and problem solving. Mathematics is the language of physics and will be relied upon heavily throughout the course.	Must have taken or be concurrently enrolled in Algebra II	Year
Anatomy and Physiology	This one-semester course provides an introduction to anatomy and physiology. Students will gain a basic understanding of the anatomy and physiology of the eleven major organ systems of the body. Throughout the course, students will complete basic dissections of mammalian organs in order to understand the structures of these organs. This class does require significant memorization, so students should be prepared to spend time outside of class learning anatomical and physiological terms.	Biology	Semester
Forensic Science	Forensic science is a one-semester course designed to introduce students to the application of science to the criminal and civil laws that are enforced by police agencies in the criminal justice system. Students will examine how forensic science encompasses all branches of science. Students will learn how investigators use physical evidence found in a crime scene, DNA, documents, prints, trace evidence, and serology.	Biology and Chemistry	Semester
Organic Chemistry	This course will introduce students to the field of organic chemistry. The importance of organic chemistry in the world today cannot be overstated. Students will learn that they are surrounded by organic molecules and reactions: foods, artificial flavors, perfumes, plastics, clothes, pharmaceutical drugs, biological molecules and processes, etc. College students in chemistry, biology, pre-medical, or related programs often find Organic Chemistry to be one of the most difficult courses they take in college. The knowledge gained in this introductory course at HSP will enable students to feel comfortable and confident in their college Organic course. This class is therefore recommended for students who are interested in pursuing these areas in college. Topics include organic structures and nomenclature, chirality, the major mechanisms (radical chain reactions, electrophilic addition, nucleophilic substitution, elimination, electrophilic aromatic substitution), spectroscopy (IR and NMR), functional group transformations, carbon-carbon bond formation, and using retrosynthetic analysis to design multi-step syntheses. Students will perform over a dozen laboratory experiments including basic identification, characterization, and purification techniques; polymerization reactions; and a multi-step synthesis that will be completed over a period of several weeks. <b>Organic Chemistry and AP Chemistry will be offered in alternating years; Organic Chemistry will be offered during academic years ending in odd numbers.</b>	Successful completion of Chemistry; Dept. Chair Rec.	Year

**SCIENCE DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
AP Biology with Lab	AP Biology is equivalent to a first-year college course in biology. The primary emphasis in this course is on developing an understanding of concepts and the examination of science as a process rather than memorizing terms and technical details. This course will be structured around the four Big Ideas (Evolution, Energy Processes, Information, and Interactions) that are described in the <i>AP Biology Course Description</i> . The topics covered include biochemistry, cell structure and function, cellular energetics, genetics, molecular basis of inheritance, DNA technology, evolution, microbiology, plants, animals, and ecology. Of particular importance to this class and each topic that is covered is the role of the modern theory of evolution. This theory will serve as the unifying theme across the entire scope of this class, and at the end of each unit all material will be tied to this theory.	Acc. Biology, Dept. Chair recommendation; Co-req: Chemistry	Year
AP Chemistry with Lab	AP Chemistry is equivalent to a first-year college course in chemistry. This class reinforces and builds upon topics covered in the pre-requisite high school Chemistry course. The focus is on inquiry and reasoning skills with an emphasis on students' abilities to design experiments, collect and analyze data, draw appropriate conclusions, and report results. The course is designed around the six "Big Ideas" as laid out in the College Board's <i>AP Chemistry Course Description</i> , including an in-depth study of atomic structure, bonding, intermolecular forces, acid-base chemistry, chemical equilibrium, thermodynamics, kinetics, and oxidation-reduction reactions. <b>AP Chemistry and Organic Chemistry will be offered in alternating years; AP Chemistry will be offered during academic years ending in even numbers.</b>	Accelerated Chemistry, Dept. Chair recommendation	Year
AP Physics 1	AP Physics 1 is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It also introduces electrical circuits. After completion of AP Physics 1, a student will be eligible to take AP Physics 2 (algebra-based) or AP Physics C (calculus-based).	Algebra II/Trig or Pre-Calc; Dept. Chair recommendation	Year
AP Physics 2	AP Physics 2 is equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics.	AP Physics 1, Dept. Chair recommendation	Year
AP Physics C	AP Physics C is more intensive and analytic than AP Physics 1 and 2. This course uses calculus, and prior completion of or concurrent enrollment in a calculus course is required. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus, as well as continuing to develop a deep understanding of physics concepts. AP Physics C is intended to be equivalent to introductory courses taken by physical science and engineering majors and covers two major areas: mechanics and electricity & magnetism, with equal emphasis on each.	AP Physics 1, Dept. Chair recommendation; Co-req: Calculus	Year

**SOCIAL SCIENCE DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
World History	This course will offer a general overview of the major periods of history from the earliest of times. Mixed in throughout the course will be lessons on politics, law, religion, and minority struggles throughout the world. Debates, topical discussions, lectures, presentations, writing assignments, and weekly reading homework will be used to facilitate student learning. Students will learn how to write expository essays throughout the course to prepare them for the next levels of Social Studies courses at Holy Spirit Preparatory School. The goal of this course is to present the history of the world starting with the ancient Middle East and ending with the Middle Ages.	None	Year
Accelerated World History	This course will offer a general overview of the major periods of history from the earliest of times. Mixed in throughout the course will be lessons on politics, law, religion, and minority struggles throughout the world. Whenever possible, primary documents and point of view analysis will be incorporated to increase the students' understanding of the material. In addition, movie clips, as well as debates, topical discussions, lectures, presentations, writing assignments, and weekly reading homework will be used to aid the student in understanding the material. Students will learn how to write expository essays throughout the course with emphasis on document based and free response questions to prepare them for the advanced placement courses at Holy Spirit Preparatory School. The goal of this course is to present the history of the world starting with the ancient Middle East and ending with the Middle Ages.	Dept. Chair Rec.	Year
Western Civilization	Modern Western Civilization examines the political, social, religious, economic, and cultural development of Western nations. Major topics include the rise of nation-states, the Age of Exploration, the Age of Revolution and Reaction, the Industrial Revolution, the Age of Imperialism and the world wars.	None	Year
Accelerated Modern Western Civilization	Accelerated Western Civilizations is an advanced course which will prepare students for the rigors of Advanced Placement Social Sciences. The course covers the time periods from the Renaissance through the fall of the Berlin Wall. Specific emphasis will be placed on the economic, political, and philosophical movements that altered the course of European History. Students must be self-motivated to go above and beyond the material presented during class time, as this course simulates a college seminar style class. Instructional practices include Socratic teaching, point of view instruction, student debates and simulations, as well as a focused effort on historical writing skills. At the completion of this course, students will be prepared to learn, write, and study in a style similar to that of a college student.	Dept. Chair Rec.	Year
U.S. History	United States History examines our nation's history from the discovery of the new world to the modern era. This course provides students with a topical understanding of the nation's social and economic history as well as a history of the nation's involvement in foreign affairs. Major topics/areas include the colonial period, the establishment of the constitutional government, the federalist era, the age of Jackson, the Civil War and Reconstruction, Gilded Age and progressivism, the Great Depression, World Wars, Civil Rights, and the Cold War.	None	Year

**SOCIAL SCIENCE DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
AP United States History	This course is designed to provide a college-level experience and preparation for the Advanced Placement (AP) Examination in May 2015. An emphasis is placed on interpreting documents, mastering a significant body of factual information, and writing critical essays. The nation's history is broken into nine periods: 1491-1607 (Spanish colonization), 1607-1754 (English colonization), 1754-1800 (revolution and the new republic), 1800-1848 (the market revolution and reform), 1844-1877 (Manifest Destiny and Civil War), 1865-1898 (the development of industrial America and imperialism), 1898-1945 (the first half of the 20 <sup>th</sup> Century), 1945-1980 (the Cold War era), and 1980 to the present. This course will be offered in alternating school years and which end in even numbers.	One accelerated or AP Social Science Course and Dept. Chair Rec.	Year
U.S. Government	U.S. Government provides students with an understanding of the structures and functions of the federal government. Students will explore the principles of government established by the Constitution and will examine the ways those principles are enacted by the legislative, executive, and judicial branches of government.	None	Semester
Economics	This one semester of economics will provide students with an introduction to macro-economics. Topics will include the basic economic concepts, the measurement of economic performance of a nation, the financial sector, employment, inflation and the critical factors responsible for the U.S, and world economic growth or recession.	None	Semester
AP European History	Advanced Placement European History is a college level survey course of European history from the Renaissance to the modern era. This course provides students with a comprehensive understanding and appreciation of Europe's social and economic history as well as the political, intellectual, and cultural innovations of the continent's past 700 years. Topics include the Renaissance and Reformation, the religious wars of the 16th and 17th centuries, the Enlightenment, revolutions and reform movements of the 18th and 19th centuries and the birth of modern Europe. As this is a college level course, students must be self-motivated and self-directed learners who are willing to commit to completing substantial research, reading, and writing outside of the classroom environment. At the completion of this course, students will be prepared to take the Advanced Placement exam. <b>This course will be offered in alternating school years which end in odd numbers.</b>	Accelerated World History or AP World History and Dept. Chair Rec.	Year
AP World History	The AP World History course content is structured around the investigation of five course themes and nineteen key concepts in six different chronological periods, from approximately 8000 B.C.E. to the present. The course develops students' capacity and ability to think and reason in a deeper, more systematic way, better preparing them for subsequent college courses. The four major methods of teaching and learning include: crafting historical arguments from historical evidence, chronological reasoning, comparison and contextualization as well as historical interpretation and synthesis. Five course themes of historical inquiry will be investigated at various points throughout the course and revisited as manifested in particular historical developments over time. The course will prepare students to answer free response questions (FRQ's) and document based questions (DBQ's) which are required in AP World, AP European and AP United States history courses. This course will be offered in alternating school years and which end in even numbers.	Dept. Chair Rec.	Year

**SOCIAL SCIENCE DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
AP U.S. Government and Politics	Advanced Placement United States Government and Politics is the study of the political process, the study of the structure and functions of the federal government as well as the study of the groups which influence and affect the policy making process. As this is a college level course, students must be self-motivated, self-directed learners who are willing to complete substantial research, reading, and writing outside of the classroom environment. At the completion of this course, students will be prepared to take the Advanced Placement exam. <b>This course will be offered in alternating school years and which end in odd numbers.</b>	One Accelerated or AP Social Science and Dept. Chair Rec.	Year
AP Macroeconomics	The Macroeconomics course is an AP class designed to provide students with a thorough comprehension of the principles of economics that apply to an economic system as a whole. The topics covered include the basic economic concepts, the measurement of economic performance of a nation, national income and price determination, the financial sector, employment, inflation, and the critical factors responsible for the US and world economic growth or recession. The course is taught using the enquiry approach, which means that students will learn the theories and principles and learn how to apply them to problems. Through this process students will be better placed to understand the fundamental economic concepts and theories applicable to the free market and planned economic systems.	Dept. Chair Rec.	Year
AP Human Geography	This course is an introductory college class in human geography, designed to provide students with a learning experience equivalent to that obtained in most first year college human geography classes. It introduces students to the systematic study of patterns and processes that have shaped human understanding and assesses the use and alteration of the Earth's surface. Students will be able to employ spatial concepts and landscape analysis to examine human-social organization and its environmental consequences. The units taught include population, migration, culture, language, religion, ethnicity, political geography, economic development, industry, and economic systems. Students are introduced to a range of geographic models, theories, and concepts. CD-ROM and Internet activities are used to explore some of the topics.	Dept. Chair Rec.	Year
AP Psychology	This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.	Dept. Chair Rec.	Year

**THEOLOGY DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
The Creed & Church History	This course presents the principle beliefs of Catholics as outlined in the Apostles' and Nicene Creeds, and taught by the Popes and the Ecumenical Councils of the Church. Incorporating Apologetics, the science that aims to explain and justify religious doctrine, students study topics which include the major doctrinal issues and debates of the early Ecumenical Councils, the Reformation, and the Enlightenment, along with explanations of the significant historical and moral controversies of the Medieval and Renaissance eras. Further, through the Gospel account of Christ's founding of the Church, the Acts of the Apostles, and the two millennia of Church history to date, students see the guidance of the Holy Spirit at work, the institutional continuity provided by Apostolic Succession, and the consistency of Catholic faith and morals.	None	Year

**THEOLOGY DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
The Sacraments and Theology of the Body	This course explores the incarnational characteristic of the Sacraments and the Catholic faith, and offers an explanation of sacramental theology. In Jesus Christ, God became physically visible, touchable, and knowable. By the seven sacraments, Catholics continue to encounter Jesus Christ through the sensible. Our faith manifests not merely in the spiritual sense but physically. Thus, along with the sacraments, students study Theology of the Body, a series of teachings by Pope John Paul II concerning human sexuality, to explore how we are created in the image and likeness of God, how in the right relationship men and women best reflect the Holy Trinity, and consider closely the call to marriage, the consecrated life, and religious vocations. Moreover, preparation for the Sacrament of Confirmation for Catholic students reinforces and brings to life class topics.	None	Year
Morality and Social Ethics	This course covers matters of morals in the Faith, focusing briefly on the Ten Commandments and their fulfillment in Christ and the New Law of Grace and the Beatitudes, and more fully through reading Dante, whose voyage through Hell and Purgatory offer insights into sin, humanity, suffering and redemption in one of the greatest works of literature, <i>The Divine Comedy</i> . Second semester emphasizes the ethical life as lived out in relationships with others, or Social Ethics. The Second Vatican Council's Dogmatic Constitution on the Church reads: "The laity are called in a special way to make the Church present and operative in those places and circumstances where only through them can she become the salt of the earth." The charge to laity manifests in the emphasis placed on the sanctity of life and the challenge to students to witness to that sanctity amidst a growing culture of death. Pope John Paul the Great's <i>The Gospel of Life</i> provides an inspired message worth evangelizing.	None	Year
Philosophy and The Good Life	With the assistance of Aristotle and St. Thomas Aquinas, the purpose of this class in large part is to form a foundation and working understanding of philosophy. Students begin with the general nature of philosophy in Aristotle's categories and causes, and proceed through the basics of metaphysics, epistemology and language as the Angelic Doctor would have us understand them. Once armed with the tools of philosophical discourse, students use excerpts from the great works to comprehend the challenges we face in seeing reality rightly. Students analyze the Christian idea of man, and delve the critical issues that stand between the modern human mind and the true, good, and beautiful in technology, education, art, and ideology. Finally, by the development of an understanding of ethics, the class will examine the virtues and consider how when properly understood their cultivation leads to happiness and the good life. The class will culminate with a written guide on How to Live the Good Life, with contributions from each student and including the topics of the year, the Beatitudes, and the beatific vision.	None	Year

**ATHLETICS DEPARTMENT**

<u>Course</u>	<u>Course Description</u>	<u>Prerequisite</u>	<u>Length</u>
Weight Training	This course introduces the basic techniques needed for developing muscular strength, endurance, and flexibility. Includes proper instruction on the use of weight machines and free weights. The course will provide workout programs to meet individual needs of the students.	None	Semester