HONORS JUNIOR ENGLISH
111 (Honors) 1 Credit
112 (Cupertino) 1 Credit
113 (Anthony) Required
This course is designed to introduce the student to the various genres of literature: short stories, poetry, epic poetry and drama. Students will expand on their vocabulary through the systematic study of vocabulary. Students will do a review of grammar. During the year, students will work at developing their writing skills. Students will be introduced to the fundamentals of doing a research paper.

ENGLISH II
121 (Honors) 1 Credit
122 (Cupertino) 1 Credit
123 (Anthony) Required
This course is designed to build on the foundation of the freshman year by doing a more intensive study of the various genres of literature: short story, novel, poetry, and drama. Students will continue their study of vocabulary and grammar. Students will continue to develop their critical thinking and analysis of the materials covered in class. Students will be expected to write at the level for the SAT. Students will do a research paper incorporating what they have learned in freshman year.

HONORS SENIOR ENGLISH
131 (Honors) 1 Credit
Required
Honors Senior English builds upon Honors Junior English by engaging students in the careful reading, discussion, interpretation, and critical analysis of imaginative literature: poetry, plays, short stories, and novels. This capstone honors course completes a four-year progression in which students are ultimately asked to address themselves to literature across time, space, and genre boundaries. Finally, students will continue to develop their writing skills through intensive college preparatory writing and creative composition -- writing research papers, poetry, reading journals, and other writing assignments aimed at bringing students to a level of competence, comfort, and creativity required of honors college students across the U.S. Honors Senior English is open to any Honors senior who is willing to devote enough time to become a confidently literate young adult ready for college or university academic life.

AMERICAN LITERATURE
142 (Cupertino) 1 Credit
143 (Anthony) Required
The objective of the junior American Literature course is to introduce the student to the development of American Literature from Early American Literature to the Modern Age. The course will include both fiction and non-fiction works. During the year, students will be challenged to expand on their knowledge in the following areas: critical analysis and critical thinking skills, and SAT level writing skills. Students will be required to write a research paper on some aspect of the development of American Literature.

BRITISH LITERATURE
132 (Cupertino) 1 Credit
133 (Anthony) Required
The objective of the senior British Literature course is to introduce the student to the development of British Literature from the Anglo-Saxon Period (449-1066) to the Modern Period (1901-1945). Works from Beowulf to James Joyce will be covered. The course will look at the impact of culture and historical events on the development of British Literature. During the year the students will be challenged to expand on their knowledge in the following areas: critical thinking and analysis of the material, college
level writing assignments, and creative projects. Students will be required to write a research paper on some aspect of the development of British Literature.

REAL WORLD WRITING

153 1 Credit
Elective Real World Writing will accelerate the comprehension and writing skills mastered in Reading 1 and Reading 2 in order for students to apply those skills in analyzing, synthesizing, and evaluating reading and writing assignments in World Literature, United States History, Science and Mathematics.

Students will recognize the correlation of reading and writing in World Literature and United States History by incorporating analytical critiques in order to synthesize, evaluate and apply skills in those subjects. Students will also develop higher level thinking skills in Science and Mathematics in order to see Science and Math in everyday life. Students will apply their knowledge, and explain how real world writing is synthesized into everyday life. (Placement by Anthony Program Coordinator)

ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION

171 1 Credit
Elective AP English Language and Composition engages students in the careful reading and critical analysis of imaginative literature. This reading necessarily builds upon and complements the reading done in previous English courses so that by the time students complete their AP course, they will have read works from several genres and periods – from the 16th to the 21st century. In the course, students read deliberately and thoroughly, taking time to understand a work’s complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. In addition to considering a work’s literary artistry, students reflect on the social and historical values it reflects and embodies. Finally, writing is an integral part of the AP English Language and Composition course and exam. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Teacher recommendation required.

HONORS SCIENCE FICTION & FANTASY

187 1 Credit
Elective The purpose of this course is to introduce students to survey the history, culture, and practice of Science Fiction and Fantasy literature. Over the course of the year, students will learn about the origins of sci-fi and fantasy literature from the Greco-Roman period to the present, and they will survey the major sub-genres, focusing on novels, short stories, and poetry. Not only will students be challenged to understand how the “other worlds” of science fiction and fantasy are created, they will also be encouraged to craft fiction and poetry of their own in the traditions of sci-fi and fantasy. Available to juniors and seniors in the Honors and Cupertino programs. Honors students will complete additional work to earn Honors credit in the course.

FINE ARTS

HONORS ART SEMINAR

911 ½ Credit
Elective This is a course designed to improve visual literacy. The elements of art and the principles of design will be introduced. The roots of Western Art will be explored, touching upon prehistoric, ancient Egypt, Greece and Rome, as well as the Medieval and Renaissance periods. Approximately one third of the course time will be utilized for the creation of original art projects based upon the principles learned. Woven throughout the appreciation, history and project sections will be the quest for the answer to the enigmatic question “Why does man create?”

ART SEMINAR

912 (Cupertino) ½ Credit
Elective This course is designed to improve visual literacy. The elements of art and the principles of design will be introduced. The roots of Western Art will be explored, touching upon prehistoric, ancient Egypt, Greece and Rome, as well as the Medieval and Renaissance periods. Approximately one third of the course time will be utilized for the creation of original art projects based upon the principles learned. Woven throughout the appreciation, history and project sections will be the quest for the answer to the enigmatic question “Why does man create?”

MUSIC HISTORY

941 (Honors) ½ Credit
Elective This course will examine the history of music beginning with pre-history and extending into the present. Students will trace the development of music by musical form and compositional techniques as and as a reflection of the historical epoch in which each particular musical form evolved. Proficiency in the rudiments of music is required. (Pre-requisites: successful completion of at least one (1) year in one of Curley’s performing ensembles,
and continued participation in one of these ensembles during the course.)

**FROSH INSTRUMENT**

- **944 (Honors)** 1 Credit
- **945 (Cupertino)**
  
  **Required** A performance oriented course in which the student learns to play an instrument of his choice. The course introduces progressive etudes and scales designed to develop instrumental tone, articulation, technical facility, phrasing, rhythm, dynamics and melodic line. Freshmen instrumentalists also study prominent Concert Band Literature through their participation in the Curley Concert Band. Assigned performances are a requirement. (Prerequisite: A beginning course in instrumental music.) Fulfills Fine Arts credit requirement.*

**SOPH INSTRUMENT**

- **953 (Honors)** 1 Credit
- **954 (Cupertino)**
  
  **Required** A continuation of studies in tone, articulation, technical facility, phrasing, rhythm, dynamics and melodic line through the performance of progressive scales and etudes. This course includes a more detailed study of Concert Band Literature and musical theory. Assigned performances are a requirement. (Prerequisite: Freshman Instrument.)*

**JAZZ ENSEMBLE**

- **961** 
  
  **½ Credit**
  
  **Elective** Open to advanced Concert Band members as a second style of performance. The course includes studies in Jazz improvisation, phrasing and articulation. The ensemble performs 15 to 20 concerts during the school year. Concert performances are a requirement. Admission by audition only. (Course meets Tuesdays 7:00 - 8:30 p.m.)* *Instruments to be provided by the student.

**MUSICIANSHIP I**

- **971 (Honors)** 1 Credit
- **972 (Cupertino)**
  
  **Elective** The study of written harmony, keyboard harmony, ear training and sight singing, based on the techniques of composers of the 17th to 19th centuries. Discussions will include a brief review of the rudiments of music, a detailed survey of chords from the simple triad to thirteenth chords, chordal movement through part-writing and figured bass, and harmonizing given melodies as well as creating original music. Analysis, listening, instrumental and vocal applications will be an essential part of each topic covered. Available to juniors and seniors. (Prerequisite: Formal instruction in vocal or instrumental technique.)

**INTRODUCTION TO THEATER ARTS**

- **975**
  
  **1 Credit**
  
  **Elective** This course is intended to enhance a student's personal theatrical ability and/or his appreciation of theatre through a survey of the fundamental elements of drama and production. In addition to a discussion of the history and literature of theatre, students will also examine various practical aspects of stage production including: acting, improvisation, directing, choreography, lighting, costumes, make-up, publicity, set design and construction. As a requirement of the course, students must attend the school's two Blackfriars' Theatre productions. Field trips to local, regional or Broadway theatres may also be included as components of this course.

**DESIGN & COMPOSITION**

- **983 (Honors)** ½ Credit
- **984 (Cupertino)**
  
  **Elective** The principles of design serve as guidelines for the use and arrangement of the elements of art. The object of this course is to develop a working knowledge of the elements of art: color, value, line, texture, shape, form and space and the principles of composition: balance, gradation, variety and contrast, repetition and rhythm, emphasis and unity. Progress will be measured, for the most part, by producing visual works which demonstrate an understanding of the elements and principles. (Prerequisite: Art Seminar.)

**FINE ARTS**

- **985**
  
  **1 Credit**
  
  **Elective** The materials, techniques and subject matter of traditional Fine Arts will be explored. They include head sculpture and casting, non-representational sculpture, drawing, water color painting and silk screen painting. (Prerequisite: Successful completion of Design and Composition.)

**SENIOR STUDIO**

- **986**
  
  **1 Credit**
  
  **Elective** This class will be customized for each student to meet their needs, whether they are portfolio problems or just personal interests. The course of study will be worked out on a one-on-one basis with specific quarterly goals and reviews. A student may, for example, elect to work in three dimensional mediums for the entire year, while another student may want to do creative techniques on the Macintosh. Each will be accommodated. Available to seniors only. (Pre-requirement: Successful completion of Art Seminar, Design and Composition, and Fine Arts.)

**AP STUDIO ART**

- **987**
  
  **1 Credit**
  
  **Elective** As an AP Studio Art student, students are asked to emphasize research, experimentation, discovery, inventive thinking, critical analysis and problem-solving in their art making. In the AP Studio Art class, students will work toward submission of a portfolio expected for AP Studio Art: 2-D Design. Their goal will be to create a portfolio of college-level work and, at the end of the semester, submit it for evaluation. The portfolio has three sections: Selected Works (Quality, Sustained Investigation, Conceptualization), and Range of Approaches (breadth). In the spring, students will upload digital images of their work and commentary online. They will also send in actual artworks. A qualifying portfolio score can earn college credit and advanced placement. Applications are available to seniors only. Instructor approval required for enrollment.

**FINE ARTS PHOTOGRAPHY**

- **989**
  
  **1 Credit**
  
  **Elective** A course designed to assist students in exploring digital photography as a visual art form. Topics will include historical perspective, compositional techniques, black and white photography, and theme development. Basic digital image manipulation and editing will be introduced. Students will create various photo projects to demonstrate their working understanding of digital photography, and these projects will be on display throughout the community. Students’ work will be exhibited during the Spring Art Show (attendance is mandatory). Available to juniors and seniors only.

**CURLEY CHOIR**

- **991 (Honors)** 1 Credit
- **992 (Cupertino)**
  
  **Elective** A course designed to teach the rudiments of music and the fundamentals of vocal technique using a performance-based approach. The student will learn to use properly the human vocal mechanism, and at the same time, learn how to interpret a composer’s intentions as set out in a musical score. Emphasis will be placed on tuning, blend, breathing technique, vowel coloration and consonant articulation. Fulfills Fine Arts credit requirement.

**GUIDANCE and COUNSELING**

**COLLEGE INTRO TO SOCIOLOGY - ONLINE**

- **285**
  
  **1 Credit**
  
  **Elective** This is an online Sociology course offered through Anne Arundel Community College. Students will earn credit from Curley as well as 3 undergraduate credits from Anne Arundel Community College. Students will learn sociological principles and perspectives as a way of understanding everyday social life, study meanings and functions of various roles in historical and contemporary societies, and evaluate causes, consequences and comparisons of social hierarchies. There is an added fee for this course. Available to seniors only. Prerequisite: Guidance Department approval. Offered during semester two.

**COLLEGE ABNORMAL PSYCHOLOGY - ONLINE**

- **287**
  
  **1 Credit**
  
  **Elective** This is an online Abnormal Psychology course offered through Anne Arundel Community College. Students will earn credit from Curley as well as 3 undergraduate credits from Anne Arundel Community College. Students will learn about mental disorders, including an examination of causes, symptoms, treatment and management. Students will study anxiety disorders, mood disorders, personality disorders and schizophrenia, as well as explore problems in the field of abnormal psychology and discuss current attempts to solve them. There is an added fee for this course. Available to seniors only. Prerequisite: Introduction to Psychology and Guidance Department approval. Offered during semester two.

**INTRO CRIMINAL JUSTICE**

- **288**
  
  **1 Credit**
  
  **Elective** This is an online Intro Criminal Justice course offered through Anne Arundel Community College. Students will earn credit from Curley as well as 3 undergraduate credits from Anne Arundel Community College. This course will survey the history, development and philosophy of law enforcement. Introduces the local, state, and federal agencies involved in
LANGUAGES

HONORS SPANISH I
511 1 Credit
Required Introduction to the speaking, listening, reading and writing of Spanish. The basic fundamentals of grammar and speech patterns are developed with the aid of textbook and iPad.

SPANISH I
512 (Cupertino) 1 Credit
Required Introduction to the speaking, listening, reading and writing of Spanish. The basic fundamentals of grammar and speech patterns are developed with the aid of textbook and iPad. (*516 forAnthony Program juniors) Only with recommendation of Anthony Program Coordinator and approval of Language Department Chair.)

SPANISH II
522 (Cupertino) 1 Credit
526* (Anthony)
Required A continuation of the fundamental linguistic skills presented in Spanish I, with a greater emphasis on grammatical structures in the foreign language. Greater emphasis is placed on the spoken language. (526 for Anthony Program juniors) Only with recommendation of Anthony Program Coordinator and approval of Language Department Chair.)

SPANISH III
532 1 Credit
Elective This course is a continuation of the vocabulary, grammar, and structure studied in Spanish II and is offered to Cupertino and Anthony students. An emphasis will be placed on the spoken language. This course will include an introduction to Hispanic/Spanish short stories and poetry. (Prerequisite: Spanish II 522 or 526.)

ADVANCED PLACEMENT SPANISH III
531 1 Credit
Elective AP Spanish III serves as preparation for either the AP Language or AP Literature exam. The course is conducted entirely in Spanish. After a review of basic grammar and structure, the student is introduced to new, more intricate grammatical structures. More emphasis is placed on the spoken form of the language. The student is introduced to Spanish/Hispanic literature through short stories, poetry, novels, and drama. AP Spanish III is a Dual Enrollment for college credit course. (Prerequisite: Spanish II 521 and teacher approval.)

ADVANCED PLACEMENT SPANISH IV
541 1 Credit
Elective Advanced Placement Spanish IV serves as preparation for the AP Exam in either Spanish Language or Spanish Literature. The course is conducted entirely in Spanish. Emphasis is placed upon class discussion and composition. An indepth study of Spanish/Hispanic literature, in the forms of short stories, essays, poetry, novels, and drama is included in this course. Grammatical structures and vocabulary are reviewed and applied to both literature and composition. AP Spanish IV is a Dual Enrollment for college credit course. (Prerequisite: AP Spanish III and teacher approval.)

SPANISH IV
542 1 Credit
Elective This course will focus on more advanced grammatical concepts and is offered to Cupertino and Anthony students. Students will acquire knowledge of Spanish/Latino writers through literature. Vocabulary, writing, and speaking skills will be enriched and improved. (Prerequisite: Spanish III 532.)

LATIN I
584 1 Credit
Required Latin I will introduce students to Latin vocabulary, and give students an understanding of basic Latin grammatical principles. The course also highlights Latin’s interdisciplinary nature, so in addition to the language students will learn about Roman history (from its legendary beginnings to the fall of the republic), mythology, and culture.

LATIN II
585 1 Credit
Required Latin II will pick up where Latin I left off. Students learn Latin vocabulary, and gain an understanding of more advanced Latin grammatical principles. The course also highlights Latin’s interdisciplinary nature, so in addition to the language students will learn about Roman history (from the fall of the republic into the Imperial period), mythology, and culture.

ITALIAN I
653 1 Credit
Elective This course is designed for those freshmen entering high school who need to develop adequate mathematical skills and sufficient background knowledge for success in a course in Algebra. The first semester introduced and developed. Students will also be introduced to Italian customs and culture.

ITALIAN II
652 1 Credit
Required A continuation of the fundamental linguistic skills presented in Italian I, with a greater emphasis on more complex grammatical structures in the foreign language. This course aims to prepare the student for a more extensive, in-depth understanding of the spoken language and to prepare him for a further study of Italian. The student will also continue to be immersed in Italian culture and traditions. Greater emphasis is placed on the spoken and written language.

COLLEGE ITALIAN III
654 1 Credit
Elective An accelerated course in conversational Italian. The student is given the opportunity to express himself in Italian through the use of directed conversation using various aspects of everyday dialogue. More complex grammatical constructions are presented to the student and must be applied to oral work, writing, composition, and reading and listening comprehension. More emphasis is placed on the spoken form of the language. Italian literature and culture will be introduced through the use of short stories, poetry, novels, drama, film, and opera study. The course is conducted entirely in Italian. College Italian III is a Dual Enrollment for college credit course. (Prerequisite: teacher approval.)

COLLEGE ITALIAN IV
656 1 Credit
Elective The course is conducted in Italian. Emphasis is placed upon advanced grammar and vocabulary skill building. Italian literature and culture will be discussed through the use of short stories, poetry, novels, drama, film, and opera study. The student is given the opportunity to express himself in Italian through the use of daily conversation. College Italian IV is a Dual Enrollment for college credit course. (Prerequisite: College Italian 654 and teacher approval.)

MATHEMATICAL SCIENCES

PRE-ALGEBRA
403 1 Credit
Required This course is designed for those freshmen entering high school who need to develop adequate mathematical skills and sufficient background knowledge for success in a course in Algebra. The first semester
will consist of an extensive review of arithmetic skills, including whole numbers, decimals, fractions and factoring. During the second semester, emphasis is placed on integrating mathematical concepts with basic algebra and geometry. Topics include solving equations, working with formulas, ratio, integers and graphing fundamentals. Students will also learn techniques for solving word problems throughout the course.

HONORS ALGEBRA I
411 1 Credit
Required This course is a fast-paced course through various Algebra I concepts such as solving equations and inequalities, graphing linear equations and inequalities, operations with polynomials, solving systems of equations, operations with rational expressions, and introduction to data analysis, measures of central tendency and graphical representations of data. Students in this course will enter with strong basic mathematics skills. Students will work on developing problem-solving skills, critical thinking skills, and application of concepts to real-world situations.

ALGEBRA I
412 1 Credit
Required An axiomatic approach to algebra, emphasizing the basic structure of algebra and the application of algebraic concepts, this course is designed for freshmen entering high school with suitable mathematical backgrounds in arithmetic and pre-algebra. Topics covered include sets of numbers, laws and principles of algebra, solving equations, factoring, rational expressions, radicals and polynomials. Basic data analysis, measures of central tendency and graphical representations of data will be explored. Students will also develop problem-solving skills.

AN INTENSE COURSE DESIGNED TO ENHANCE THE ESSENTIAL TOPICS OF ALGEBRA, STUDENTS WILL DEVELOP THINKING, REASONING AND CRITICALLY THINKING SKILLS THROUGH AN ARRAY OF TOPICS AND APPLICATIONS. AFTER A REVIEW AND ENHANCEMENT OF THE ESSENTIAL TOPICS OF ALGEBRA I AND II, SUCH AS SOLVING LINEAR AND QUADRATIC EQUATIONS, WORKING WITH INEQUALITIES, GRAPHING AND FUNCTIONS. STUDENTS WILL THEN DISCUSS EXPONENTIAL AND LOGARITHMIC FUNCTIONS AND THEIR APPLICATIONS. THE SECOND SEMESTER IS DEVOTED IN LARGE PART TO A COURSE IN TRIGONOMETRY, COVERING SUCH TOPICS AS BASIC RIGHT TRIANGLE TRIGONOMETRY, GRAPHING TRIG FUNCTIONS, WORKING WITH TRIG FORMULAS, SOLVING TRIG EQUATIONS AND APPLICATIONS OF THE TRIGONOMETRIC CONCEPTS. OTHER TOPICS IN ADVANCED MATHEMATICS, SUCH AS MATRICES, WILL BE COVERED AS TIME PERMITS. A SCIENTIFIC CALCULATOR IS STRONGLY RECOMMENDED FOR THIS COURSE. (PREREQUISITE: ALGEBRA II AND GEOMETRY.)

HONORS ALGEBRA II
421 1 Credit
Required A rigorous course in Algebra II, trigonometry intended for juniors who successfully completed 411 and 431, and for incoming freshmen who have successfully completed a high school level Algebra I and Geometry courses prior to entry as evidenced by scores on the Archbishop Curley math placement tests. Students entering this course will have a strong understanding of Algebra I and Geometry concepts and their applications. Students will develop strong critical thinking skills as they continue to build on their prior knowledge of Algebra. Topics covered include solving equations such as radical, rational, and polynomial, graphing polynomial and rational functions, complex numbers, logarithmic and exponential functions, trigonometric functions, graphing trigonometric functions, and solving trigonometric equations. Students are introduced to data analysis of normal and standard distributions and to linear and quadratic regression. Students from this course may place into 441, 461 or 465 based on various factors. (Pre-requisites: 411, 431, or qualifying score on Placement Tests.)

ALGEBRA II
422 1 Credit
Required An intermediate course in algebra available for Juniors with a wide range of abilities who have successfully completed Algebra I and who are contemplating college. Students will develop their thinking, problem-solving and reasoning skills through application of the algebraic ideas while building on previously learned concepts. After a review and enhancement of the basics of Algebra I, course topics include functions, graphing, polynomial operations, rational expressions, radicals, complex numbers, solving quadratic equations and laws of exponents. Data analysis of normal and standard distributions and introduction to linear and quadratic regression will also be explored. (Pre-requisites: Algebra I and Geometry.)

ALGEBRA II
423 1 Credit
Required A fundamental course in algebraic essentials designed for juniors and seniors considering college who have completed Algebra I but who are in need of a slower pace in order to internalize the basic concepts of algebra. This course is also available to sophomores who have successfully completed Pre-Algebra during their freshman year. Topics include the set, solving equations, inequalities, working with polynomials and graphing techniques. Students will develop their problem-solving skills throughout the course as they discover applications of the algebraic concepts. An introduction to data analysis and graphical displays of data will be explored. (Pre-requisite: Pre-Algebra.)
Algebra topics, particularly functions. Students will examine techniques for solving equations and inequalities, graphing equations, functions, polynomials, basic laws of exponents, radicals and quadratic equations. The second semester will introduce students to topics in Statistics and Probability. The course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Topics in both descriptive and inferential statistics are covered, as well as ideas concerning probability. There is emphasis on the interpretation of statistical results as well as the predictive power of statistics. Real world data will be used whenever possible to illustrate concepts. Students will have at least one major project to complete where they will collect and analyze data and draw conclusions. Students will require a graphing/statistical calculator.

**HONORS CALCULUS**

461 \ 1 Credit

**Required** A course in fundamental calculus that explores the concepts of polynomial and rational functions, logarithmic and exponential functions, limits and their properties, differentiation, and applications of differentiation in the real world. Seniors in this course will be prepared for a college Calculus course, and juniors/seniors will be prepared for AP Calculus. (Pre-requisites: Algebra 421 or Pre-Calculus 441 and departmental recommendation.)

**ADVANCED PLACEMENT CALCULUS AB/BC**

471 \ 1 Credit

**Elective** This advanced course is offered to seniors gifted in mathematics who intend to pursue undergraduate study in mathematics, science, engineering, or related areas. AP® Calculus AB/BC is equivalent to a full-year college course in the calculus of a single variable. It includes all topics taught in AP® Calculus AB, plus logistic differential equations, Euler’s method, advanced techniques of integration, convergence and divergence tests for infinite series, Taylor and Maclaurin series, power series, and vector and polar functions and their applications. AP® Calculus BC is an extension of AP® Calculus AB rather than an enhancement; common topics require a similar depth of understanding. A Calculus AB sub score is reported based on performance on the portion of the AP® Calculus BC Exam devoted to AP® Calculus AB topics. The content of AP® Calculus BC is designed to qualify the student for placement and credit in a course that is one course beyond that granted for AP® Calculus AB. A graphing calculator is required in the course. Recommended calculator is the TI nspire™ CAS Touchpad or TI nspire CAS CX™. (Prerequisites: Pre-Calculus 441 or Honors Calculus 461, and departmental recommendation.)

**ADVANCED PLACEMENT STATISTICS**

465 \ 1 Credit

**Elective** Designed for students who will be pursuing a variety of college majors, statistics is a branch of mathematics that almost all students will find valuable. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Topics in both descriptive and inferential statistics are covered, as well as ideas concerning probability. There is emphasis on the interpretation of statistical results as well as the predictive power of statistics. Students who successfully complete the course and exam may receive credit, advanced placement, or both for a one-semester introductory college statistics course. Because Algebra II is the prerequisite course, AP® Statistics usually will be taken in a student’s junior or senior year. An approved calculator is required for this course. Recommended calculator is the TI nspire™ or TI nspire CAS™, although the TI-B4™/CE™/BA™ are also acceptable. (Prerequisites: Geometry and Algebra II or PreCalculus, and departmental recommendation.)

**HONORS BIOLOGY**

321 \ 1 Credit

**Required** Emphasis is placed on developing a broad understanding of the Cell theory, Evolutionary theory, the Gene theory and their interrelatedness. Students will study chemical organization of life, the cell, aspects of metabolism, nucleic acid activity, genetics, evolution, life processes, ecology and biological history. Reading current literature on biological science and laboratory investigations, which are a required part of the course, will assist in teaching the concepts and developing an appreciation for biological science. This course is designed for Honors freshmen.

**BIOLOGY**

322 \ 1 Credit

**Required** Biology studies the interrelationships of life, the cell, evolution, and heredity. Instruction will help students learn the concepts behind each of the major theories, and to develop an understanding of the complexity of life. Laboratory investigations, a required part of the course, will also assist in developing appreciation and in teaching the concepts. This course is required for Cupertino freshmen.

**BIOLOGY**

323 \ 1 Credit

**Required** In addition to studying the major theories in Biological Science (cell, inheritance, and evolution), students will study the variations in life, the complexity of life, and the relationships between life forms. Lab work will help introduce, explore, and reinforce concepts. This course is required for Anthony freshmen.

**HONORS CHEMISTRY**

331 \ 1 Credit

**Required** Study of matter, its measurement, structure and reactions. Students will learn relevant vocabulary and problem solving techniques. A strong background in Algebra and powers or logs is vital for success. Topics include behavior of gases, atomic structure, and its relationship to chemical properties, chemical bonding, solution chemistry, chemical kinetics, redox reactions, acids and bases and stoichiometry. Designed for advanced students and students planning college studies in science or engineering. This course is designed for Honors sophomores.

**CHEMISTRY**

332 \ 1 Credit

**Required** Study of matter, its measurement, structure and reactions. Students will learn relevant vocabulary and calculation techniques. A successful understanding of Algebra I is necessary. Topics will include acids and bases types of reactions, gas laws, atomic structure, bonding, and chemical properties. This course is required for Cupertino sophomores.

**ADVANCED PLACEMENT PHYSICS I**

341 \ 1 Credit

**Elective** The recently revised AP program in physics begins with AP Physics I and the “Big Ideas” concept. Explore topics such as Newtonian Mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and static and current circuits. Students taking AP Physics I are not expected to have any previous physics coursework and should have completed geometry, and be currently enrolled in Algebra II or an equivalent course. This course is designed for juniors and seniors in the Honors program. Teacher approval is required.

**PHYSICS**

352 \ 1 Credit

**Elective** This course is the study of Newtonian mechanics; heat and sound; wave motion and light; electricity and magnetism; atomic and nuclear structure. Emphasis is on working with the basic concepts and elementary calculations using basic physics principles. This course emphasizes qualitative explanation of physical phenomena as well as basic algebraic manipulations of equations. Available to juniors and seniors, with Departmental approval. Offered only fall of even years.

**ADVANCED PLACEMENT BIOLOGY**

360 \ 1.5 Credits

**Elective** Advanced Placement Biology is a fast paced college level biology course for students who have demonstrated excellence in science. It is recommended for those students wishing to pursue college credit for their high school experience, and for those students who have a special interest in the
natural sciences. Topics are based on the AP Biology curriculum guidelines.
This course is equivalent to a full year introductory college biology course.
A 1.5 credit course, students will meet six hours every cycle. Successful completion of biology is required.
Available to juniors and seniors. In addition to regularly scheduled class time, classes will also be held in the morning before school 2-3 times per week. Teacher approval is required.

FORENSIC SCIENCE

CONCEPTS IN ANATOMY
373 1 Credit Elective Introducing students to the structure of the body is the primary goal of this course. Students will learn the 11 organ systems. Physiology will not be covered in depth. Some comparisons to mammals other than humans will be done for interest. Lab activities may include some dissection. Available to junior and senior Anthony students. Teacher approval is required. O ffered only fall of odd years.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE
381 1 Credit Elective AP Environmental Science prepares students with the scientific principles, concepts, and methodologies required to successfully complete the AP exam in May. Study will include earth’s natural systems; natural chemical and energy movement through the atmosphere, terrestrial, and aquatic environments; and the effect humans have on our planet. Guidelines from both the AP Environmental Science program and college Environmental Science courses are used to guide course content. Available to juniors and seniors. (Prerequisite: successful completion of Biology and Teacher approval.) O ffered only fall of odd years.

INTRODUCTION TO ENGINEERING DESIGN
390 1 Credit Elective Introduction to Engineering Design (IED) is a high school level foundation course in the PLTW Engineering Program. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teacher and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Open to Cupertino and Honors sophomores. (Prerequisite: Department Chair approval.)
This course will examine the social, cultural, economic, and political development of the United States beginning with Columbus’s first contact with Native Americans in 1492 through the end of the American Civil War in 1865. The course will cover European colonization of North America, the factors that led to the American Revolution and the war itself, the creation of the Constitution, the evolution and forms of slavery in America; the development of section- alism and the American Civil War. Throughout the course, students will study the foundations and principles of American Government and the Constitution, as well as the development of the legislative, executive, and judicial branches throughout this time period. The course will also trace the evolution of American domestic and foreign policy, the growth of the capitalist economic system and the expansion of voter participation through political parties. Available to sophomores.

**AMERICAN MILITARY HISTORY**

243  1 Credit  
Elective  This course will focus on the American Military from its early beginnings during the French and Indian War to its recent conflict in the Persian Gulf. The course will detail our country’s official forma- tion in the American Revolution and the great American tragedy of the 1800’s, the American Civil War. The course will then concentrate on 20th Century warfare with an emphasis on World Wars I and II, The Korean War, Vietnam and finally, the Persian Gulf. Areas of focus will include the causes of each war, significant battles, commanding officers, use of weapons, and strategy and tactics, as well as economic and political effects of each conflict. Available to junior and senior Anthony students.

**THE U.S. PRESIDENCY**

248  ½ Credit  
Elective  This course will evaluate the Office of the U.S. President in role, person and power. Students will explore the roots of the position from its design by our founding fathers, to its evolution over the past few centuries. Careful attention will be paid to the role of the president today, and how the office influences domestic and international politics. Additionally, students will study individual presi- dents and how they have shaped the position and the country. Available to juniors and seniors.

**ADVANCED PLACEMENT AMERICAN GOVERNMENT AND POLITICS**

251  1 Credit  
Elective  AP United States Government and Politics will give students an analytical perspective on govern- ment and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and policies and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will become acquainted with the variety of theo- retical perspectives and explanations for various behaviors and outcomes. A college level text is used and an ex- tensive amount of reading is required outside of the classroom. Students will be expected to sit for the AP exam in May. Available to juniors and seniors with Department Chair approval.

**HONORS UNITED STATES HISTORY II (1865 to the Present)**

275  1 Credit  
Elective  This course will examine the social, cultural, economic, and political development of the United States from 1865 to the present. The course will examine the consequences of the Civil War and Reconstruction, the Gilded Age, Populism, Progressivism, the two World Wars, the Roaring Twenties, the Great Depression, the Cold War, the Civil Rights Era, and the post-Cold War world. The course will trace the development of the legislative, executive, and judicial branches throughout this time period, while focusing on key Supreme Court cases. The course will also examine the evolution of American domestic and foreign policy, compare various political and economic systems, and analyze the expansion of voter participation through key legislation and political parties. Available to juniors.

**AFRICAN AMERICAN STUDIES**

276 (Honors)  1 Credit  
277 (Cupertino)  1 Credit  
Elective  In African American Studies students will explore American history from the point of view of African Americans. The course will begin ex- amining what is Black history and why historians consider African American history an essential part of American history. The first semester will focus on the social, economic, and political dynamics between Africans American and Europeans from the arrival of the first Africans to Jamestown in 1619 to the Civil War in 1861. The second semester will emphasize the societal norms and economic gains that contributed to the creation and legitimization of race through legislation. The second semester focuses on the same three dynamics (society, economic, and politics) with an additional layer in the form of the African American narrative as the byproduct of a newly acquired citizenship. The constant theme throughout the second semester will be on what Du Bois calls the “double consciousness” and its effect on the African American community. Students will examine these dynamics through a variety of sources including primary and sec- ondary sources, novels, essays, auto- biographies, music, and other mediums as necessary. At the conclusion of the course students will have an introductory knowledge of African American history, a greater appreciation for American history,
and a refined practice in historical research. African American Studies is a Junior/Senior Elective open to all students in the Cupertino or Honors programs. Anthony students are permitted with teacher and program coordinator approval to enroll in the Cupertino course.

**TECHNOLOGY**

**TECHNOLOGY INTERNSHIP PROGRAM**

790 1 Credit Elective This course is designed to show the relationship between History and Geography and how Geography influences historical as well as current world events. The course concerns itself mainly with aspects of human and physical geography but emphasizes map proficiency on world, national, state and municipal levels. Available to juniors and seniors.

**PROGRAMMING USING C++**

791 1 Credit Elective This is an introductory computer programming course using C++. Students will learn structured programming as an effective tool for problem solving using Linux and Git/Hub. C++ is used as a vehicle for implementing computer based solutions to problems. This course will provide students with a conceptual background in computing and computer science. The course emphasizes programming methodology and procedural abstraction. Topics include: control statements, loops, functions, pointers, number systems, arrays, input/output, data types, classes, and sorting methods. This course will also serve as preparation for computer science majors and will be a substantial course for students who will major in other disciplines that require significant involvement in computing.

Available to juniors and seniors with teacher approval.

**THEOLOGY**

**THEOLOGY I**

011 (Honors) 1 Credit

012 (Cupertino)

013 (Anthony)

Introduction to the Bible and Mystery of Jesus Christ

Required In the first semester, this course provides an introduction to Sacred Scriptures and to the unfolding of salvation history, with a particular focus on Jesus Christ as the fulfillment of salvation history.

In the second semester, the students encounter Jesus Christ, the Second Person of the Trinity. This course leads the students toward a deeper understanding of Divine Revelation, the Trinity, the Incarnation, Jesus, salvation, and discipleship as a response to God’s love.

**THEOLOGY II**

021 (Honors) 1 Credit

022 (Cupertino)

023 (Anthony)

Introduction to the Mission of Jesus Christ and the Mystery of the Church

Required In the first semester, the students encounter how the goodness of creation, Original Sin, and the promise of a messiah are the starting points for this course, which explores our salvation through the Paschal Mystery (the suffering, death and Resurrection of Jesus Christ). The course also explores how the Paschal Mystery informs our daily lives, our prayer, and our participation in the life of the Church.

In the second semester, the students are introduced to the mystery of the Church. They will explore and grow in understanding of the Catholic Church, as well as its origin, structure, and mission. Additionally, the course addresses the roles of the hierarchy, those in religious life, and the laity in supporting the mission of the Church. Particular attention is paid to the global presence of the Church as a light to all people.

**THEOLOGY III**

031 (Honors) 1 Credit

032 (Cupertino)

033 (Anthony)

Sacraments as Encounters with Jesus Christ and the Moral Life in Christ

Required In the first semester, the course provides students an opportunity to encounter Christ in a full and real way. The focus of this course is to help students learn about the Seven Sacraments, especially the Eucharist, in order to enable them to more fully participate in them. The course also explores the history, scriptural foundation, and current practices of the sacraments.

In the second semester, this course addresses how a relationship with Christ and the Church can lead to choices that are in accord with God’s plan in a world where students face countless choices and challenges in their daily lives. The students learn what it means to live as a disciple of Christ and how the Church strengthens this discipleship.

**THEOLOGY IV**

041 (Honors) 1 Credit

042 (Cupertino)

043 (Anthony)

Comparative Religions and Vocations

Required The Senior Theology requirement will consist of two elements, divided by each semester. In the first semester, students will study the manner in which the Catholic Church relates to non-Catholic Christians, as well as other religions of the world. This course is intended to help students recognize the similarities and differences in belief and practice of other faiths to the Catholic faith.

In the second semester, students will explore and grow in understanding of the Catholic Church relates to non-Christian religions as well as other religions of the world. This course is intended to help them understand the similarities and differences in belief and practice of other faiths to the Catholic faith. The second semester will feature Christian Lifestyles and Vocations which teaches the students about who they are and their relationship to others. The subject matter presents to them the important aspects of discerning a vocation to be married, single, religious life, or ordained ministry. Each element of the Senior year shares in a unique role of preparing students for graduation and moving from high school in to the next stage of life.

**JUNIOR CATHOLIC LEADERSHIP**

044 1 Credit Elective This course will attempt to form students in a way that makes them authentic Franciscan leaders and ministers both currently in our Curley community, and in the future in one’s community, parish and family. The first semester will analyze several enduring human and spiritual questions, and how the major world religions respond to these questions. The example of the encounter between Saint Francis and the Sultan will be shown as one key model in ecumenical dialogue. The students will be challenged to find ways to translate this collective knowledge from the world religions to a way easily accessible for their peers and community. The second semester will analyze the various vocations in the Church, and how to best discern one’s place in the world and the Church. Students will be trained and challenged to integrate what they have discussed into their own lives, and how to help others to address key questions in their own lives. A focus will be made to show how one can take the Franciscan ideals received at Curley into whatever situation one will find themselves in their life after graduation. This course will fulfill the senior religion requirement, and is available to Honors and Cupertino seniors. Anthony seniors may enroll in the Cupertino course with permission of the instructor and Program Coordinator.

**PHILOSOPHICAL ETHICS**

053 1 Credit Elective In this full-year course, the basic ethical systems in philosophy from Aristotle’s Nicomachean Ethics to contemporary Virtue Ethics will be covered. In between, Natural Law ethics, especially under Thomas Aquinas, Immanuel Kant’s deontological approach, and John Stuart Mill’s Utilitarianism will also be covered. The basis of this course will be the reading and discussion of excerpts from these philosophers.
**MINIMUM GRADUATION REQUIREMENTS**

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<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Religious Studies</td>
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<td>English</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>Social Studies</td>
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<tr>
<td>Natural Sciences</td>
<td>3.0</td>
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<tr>
<td>Language/Reading</td>
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<tr>
<td>Health</td>
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<td>Fine Arts</td>
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<td>Physical Education</td>
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<tr>
<td>Electives</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>26.0</strong></td>
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**THE STRATIFIED CURRICULUM**

Each course at Archbishop Curley High School is assigned a particular level which reflects the level of difficulty of the course.

The **Honors Courses** are designed to be advanced and accelerated, requiring superior competence in addition to well-developed study skills. These are considered honors courses which require above average aptitude and a certain degree of independent reading and study.

The **Cupertino Courses** are college preparatory and developed for the student with average ability in the subject area. These courses present an intellectual challenge which require proper study habits and a satisfactory background in the learning skills of reading and writing.

The **Anthony Courses** focus on acquiring the skills needed in comprehending the subject matter. They are designed to aid the student with particular weaknesses in background skills.

**NOTES**

In order to graduate, a student must take all semester examinations, unless academically exempted, for courses taken at Archbishop Curley High School. Seniors may elect to take 6 credits.

The study of language is required for graduation. The courses which satisfy this requirement are as follows: Spanish I-IV, Italian I-IV, Latin I-IV, Reading Skills I & II. Once a student has begun the study of a foreign language, it is required that he will take the two year sequence of that language.

The Administration reserves the right to cancel or close any course due to enrollment or faculty unavailability.

Once a student chooses and is scheduled for a course, it is expected that he remain in that course unless the Administration deems a change necessary.

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**IMPORTANT NOTES for STUDENT REGISTRATION**

1. If your course selection requires Teacher, Department Chair or Program Coordinator Approval, please obtain the required signature to complete the course selection.
2. Juniors and Seniors are asked to please rank their elective courses.
3. Review course selections with parents, record them on the Course Selection Worksheet.
4. Return Course Selection Worksheet to your Faculty Advisor.
5. Your Guidance Counselor will arrange an appointment with you to review your selections.
6. When you receive your Verification Form, be sure you are being scheduled for the courses you discussed with your counselor.
7. Return the Verification Form, signed by a parent, to your Faculty Advisor.
8. If you do not return a signed Verification Form, you will NOT receive a schedule when school opens next year!