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# ARCHBISHOP CURLEY HIGH SCHOOL

## COURSE DESCRIPTION CATALOGUE

2022-2023



3701 Sinclair Lane, Baltimore, MD 21213-2079

(410) 485-5000

[www.archbishopcurley.org](http://www.archbishopcurley.org)

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**DEPARTMENTS --  
Listed Alphabetically**

**COURSES --  
Listed Numerically**

## BUSINESS

### YEARBOOK I

**710 (Honors)**  $\frac{1}{2}$  Credit  
**Elective** This course is designed as an introduction to the skills and knowledge needed to create a top quality yearbook, the Curley CORD. Students will learn the basics of digital photography, including how to take effective photos, how to legally adjust and crop photos for publication, and how to use photos to enhance layout. Students will gain journalism experience and some experience in the related fields of photo-journalism, art, pictorial essay construction, merchandising, bookkeeping, and editing. Yearbook I is available to juniors and seniors. Prerequisites: Permission of the instructor (This course meets before school four days a week.)

### PRINCIPLES OF BUSINESS

**721 (Honors)**  
**720** **1 Credit**  
**Elective** Principles of business is an introductory-level business course that studies numerous topics and concepts relating to today's ever-changing business environment. These concepts include management, marketing, accounting, economics, entrepreneurship, international business, business ethics, and current events. The goal of the course is to provide students the opportunity to study a wide range of content while identifying areas of strength that match their personal interests, aptitudes, and skill sets that will be developed in subsequent courses. Available to Standard and Anthony level juniors and seniors. **Note: Honors level students will be required to complete additional assignments and assessments for full Honors credit.**

### PERSONAL FINANCE

**725** **1 Credit**  
**Elective** Financial literacy is an essential skill in the 21st century. Concepts explored in this class will enable students to analyze personal financial decisions, evaluate costs and benefits of their decisions, recognize their rights and responsibilities as consumers, and apply the knowledge learned in school to financial scenarios encountered in life. The course will primarily focus on

understanding and managing one's personal finances and how to make informed decisions about real world financial issues. Students develop sound financial decision-making skills by exploring how to set personal goals, options for investing and saving for retirement, completing personal tax documents, and evaluating financial instruments.

Available to Standard and Anthony level juniors and seniors, with Department approval.

### ACCOUNTING I

**741 (Honors)** **1 Credit**  
**Elective** An introductory course in accounting procedures in which students will learn to read, keep, interpret, and analyze financial records; apply generally accepted accounting principles; understand how the accounting system provides businesses with information; recognize the various users of accounting information; and understand the dynamic nature of the business environment in which accounting information is used. Available to Honors level juniors and seniors.

### ACCOUNTING II

**751 (Honors)** **1 Credit**  
**Elective** This class is for students who have successfully completed Accounting I (741). This course will cover more advanced accounting principles such as: cash receipt/payment transactions, special journals, ten column worksheet, petty cash, depreciation of plant assets, uncollectible accounts, inventories, notes payable and receivable, partnerships, corporate accounting, and ethics in accounting. Available to Honors level seniors, upon successful completion of 741.

## ENGLISH

### READING/WRITING I

**104** **1 Credit**  
**Required** In addition to the reinforcement of basic reading skills such as word recognition, comprehension, study skills and reading rate, this course provides instruction in the specialized skills needed to understand content-area materials. Both traditional and creative modes of writing are taught. Students employ comprehension and written skills to generate logical paragraphs, which form good essays. This course is taken in addition to the regular English requirement.

### READING/WRITING II

**105** **1 Credit**  
**Required** Skills previously taught in READING/WRITING I are reviewed

and enforced in greater depth. A wide spectrum of new concepts and techniques are introduced to assist the transition of interpreting information from a controlled classroom situation for the student to use in everyday, functional writing, as well as, creative writing and poetry. This course is taken in addition to the regular English requirement.

### ENGLISH I

**111 (Honors)** **1 Credit**  
**112 (Standard)**  
**113 (Anthony)**

**Required** This course is designed to introduce the student to the various genres of literature: short stories, poetry, epic poem and drama. The goal is to deepen the student's analytical reading, writing and discussion skills. 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 (Standard)**  
**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.

### JUNIOR ENGLISH

**141 (Honors)** **1 Credit**  
**Required** Honors Junior English engages students in close reading, discussion, interpretation, and critical analysis of imaginative literature: poetry, plays, short stories, graphic novels, and traditional novels. This course continues a four year progression in which students are exposed to a variety of literature and challenged 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 Junior English and is open to any Honors junior.

### AMERICAN LITERATURE

**142 (Standard)** **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.

### 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 British Honors Senior English is open to any Honors senior.

### BRITISH LITERATURE

**132 (Standard)** **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 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 I and Reading II 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 or Counselor)

### ADVANCED PLACEMENT ENGLISH LANGUAGE & COMPOSITION

**161** **1 Credit**

**Required** The Advanced Placement English Language and Composition course is designed with the same rigor as an introductory college-level composition course. Students are challenged to cultivate a deep understanding of writing and rhetorical arguments in order to become curious, critical, and responsive readers while also becoming flexible and reflective writers of diverse texts addressed to diverse audiences for diverse purposes. Students also explore aspects of the rhetorical situation such as claims and evidence, reasoning and organization, and authorial style through reading, analyzing, and writing texts so that they are prepared to sit for the AP Exam in May. Most importantly, students develop a breadth of compositional skills informed by their ability to discern how language functions rhetorically; namely, how writers communicate intentions and elicit reader responses in diverse contexts. Teacher recommendation required.

### ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION

**171** **1 Credit**

**Required** AP English Literature 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 Literature and Composition course and exam. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Teacher recommendation required.

## FINE ARTS

### ART SEMINAR

**911 (Honors)** **½ Credit**

**Required** 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?"

All students will be required to visit an art museum each quarter.

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All students will be required to visit an art museum each quarter.

### MUSIC APPRECIATION

**921 (Honors)** **½ Credit**

**922 (Standard)**

**923 (Anthony)**

**Required** Introduction to the varied performing mediums, the sight and sounds of instruments and their families and the development of music from the Medieval to the classical period. This course is specifically designed to develop listening skill while reinforcing skills of memorization and writing.

All students are required to attend one professional concert per quarter. Fulfills Fine Arts credit requirement.

### CONCERT BAND

**931 (Honors)** **1 Credit**

**932 (Standard)**

**Elective** A performance oriented course designed to develop the student's mental and physical dexterity through instrumental music. In this course the student continues to develop instrumental techniques with greater emphasis on ensemble playing, performance and music theory. Assigned performances are a requirement. (Prerequisite: Soph Instrument.)\*

### MUSIC HISTORY

**941 (Honors)** **½ Credit**

**942 (Standard)**

**943 (Anthony)**

**Elective** This survey and analysis 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 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 (Standard)**

**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 (Standard)**

**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: Frosh 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 (Standard)**

**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.)

### DESIGN & COMPOSITION

**983 (Honors)** **½ Credit**

**984 (Standard)**

**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 that 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. (Pre-requisite: 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-requisite: 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 exam 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 end of the school year, submit it for evaluation. The portfolio has three sections: Selected Works (Quality), Sustained Investigation (Concentration), 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/or advanced placement. 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 work and 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 (Standard)**

**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.

## ONLINE COLLEGE COURSES

### COLLEGE INTRO TO PSYCHOLOGY - ONLINE

**284** **1 Credit**  
**Elective** This is an online 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 explore major psychological theories and concepts and related current research findings. Topics include learning, physiological bases of behavior, motivation and emotions, human development, personality and abnormal behavior. There is an added fee for this course. Available to seniors only. Prerequisite: Counseling Department approval. Offered during semester one.

### 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: Counseling 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 Counseling 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 the administration of criminal justice. Includes the court and trial process. There is an added fee for this course. Available to seniors only. Prerequisite: Counseling Department approval. Offered during semester one.

### TEACHER'S AIDE INDEPENDENT STUDY

**871** **1 Credit**  
The Teacher's Aide position is intended for use as an elective in addition to an academic schedule for Senior Scholars. It should not be used by the student in lieu of the academically challenging courses already offered, but as an extension class in a discipline of interest. For example, a student who is enrolled in AP Physics and would like to take an additional science class may become a teacher's aide for different, lower-level or underclass science class. The student should be prepared to work in many positions, including, but not limited to: small group tutorials, individual tutorials, mentoring, limited assisted class teaching, labs and administrative duties. Available to Senior St. Bonaventure Scholars only. (Prerequisite: Approval of Scholars Coordinator.)

## LANGUAGES

### SPANISH I

**511 (Honors)** **1 Credit**  
**Required** Introduction to the speaking, listening, reading and writing of Spanish at an accelerated pace. The basic fundamentals of grammar and speech patterns are developed with the aid of textbook and iPad.

### SPANISH I

**512 (Standard)** **1 Credit**  
**516\* (Anthony)**  
**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 for Anthony Program sophomores/juniors only with rec-

ommendation of Anthony Program Coordinator and approval of Language Department Chair.)

### SPANISH II

**521 (Honors)** **1 Credit**  
**Required** An accelerated continuation of the fundamental linguistic skills presented in Spanish I, with a greater emphasis on grammatical structure in the language. The course aims to prepare the student for greater understanding of the spoken language and to prepare him for further study of Spanish literature. Greater emphasis is placed on the spoken language. Several short stories, poems, and a short novel are read, and a daily journal is a requirement. (Prerequisite: Spanish 511.)

### SPANISH II

**522 (Standard)** **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/seniors 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 Standard 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 Standard 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.

## LATIN III

**586** **1 Credit Elective** Latin III will introduce students to more advanced grammatical structures and nuances of the language. Students will transition out of the textbook and begin to explore the Latin literary genres of history and comedy. Students will focus on first reading lightly adapted then fully unadapted portions of Caesar's *De Bello Gallico* and the comedic playwright Plautus *Menaechmi* in addition to excerpts from other historical and comedic authors. (Prerequisite: Latin II and teacher approval.)

## LATIN IV

**587** **1 Credit Elective** Latin IV introduces students to epic poetry through Vergil's *Aeneid*.

Students will gain an appreciation for epic poetry on a philological, cultural, and historical level. In addition to the *Aeneid*, passages from the *Iliad* and *Odyssey* will be read. (Prerequisite: Latin III and teacher recommendation.)

## FRENCH I

**611 (Honors)** **1 Credit Required** An introduction to speaking, listening, reading and writing the French language at an accelerated pace. The basic fundamentals of grammar, speech patterns, sentence structures and conversational skills are introduced and developed. Students will also be introduced to French customs and culture.

## FRENCH I

**612** **1 Credit Required** An introduction to speaking, listening, reading and writing the French language. The basic fundamentals of grammar, speech patterns, sentence structures and conversational skills are introduced and developed. Students will also be introduced to French customs and culture.

# 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.

## ALGEBRA I

**411 (Honors)** **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 applications of concepts to real-world situations.

## ALGEBRA I

**412 (Standard)** **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.

## ALGEBRA I

**413 (Anthony)** **1 Credit Required** A fundamental course in algebra designed for freshmen entering high school with some skills developed in pre-algebra 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 freshmen 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. (Prerequisite: Pre-Algebra.)

## ALGEBRA II

**421 (Honors)** **1 Credit Required** A rigorous course in Algebra II/Trigonometry intended for juniors who successfully completed 411 and 431, and for incoming freshman 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 (Standard)** **1 Credit Required** An intermediate course in algebra available for Juniors with a wide range of abilities who have successfully completed Algebra I. 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 (Anthony)** **1 Credit Required** A fundamental course in algebraic essentials designed for Juniors and Seniors who have completed Algebra I. The emphasis in this course is to do several topics well rather than simply covering material at a predetermined tempo, while simultaneously developing problem-solving and reasoning skills that are transferable to a variety of areas. After a review of Pre-Algebra and Algebra I, students will examine techniques for solving equations and inequalities, graphing equations, functions, polynomials, basic laws of exponents, radicals and quadratic equations. Basic characteristics of normal and standardized curves and data analysis applications will also be introduced. A four-function calculator will be used periodically. (Pre-requisite: Algebra I and Geometry.)

## PLANE, SOLID & COORDINATE GEOMETRY

**431 (Honors)** **1 Credit Required** An intense course designed for Sophomores who have developed strong mathematical abilities. Students will continue to cultivate their problem-solving skills while discussing topics in two and three dimensional Euclidean geometry. Proofs and geometric applications will be examined in detail to reinforce and enhance the reasoning abilities and thinking skills of the students. Topics include congruent triangles, similar polygons, right triangles and the Pythagorean Theorem, circles, constructions, area, perimeter, volume, coordinate geometry and probability. (Prerequisite: Algebra I 411 or Honors Algebra 421.)

**PLANE GEOMETRY**

**432 (Standard) 1 Credit Required** A course in fundamental two-dimensional Euclidean geometry designed for sophomores with adequate mathematical skills who have satisfactorily completed Algebra I. Students will develop problem-solving, critical thinking, and reasoning skills through a variety of topics, including congruent triangles, proofs, similar polygons, basic right triangle trigonometry, area and circles, and probability. (Pre-requisite: Algebra I.)

**DESCRIPTIVE GEOMETRY**

**433 (Anthony) 1 Credit Required** A basic yet vital Euclidean geometry for sophomores and juniors who have completed Algebra I. Students will develop thinking, reasoning and critical-thinking skills through an assortment of topics such as points, lines, planes, angles, congruence, parallel lines, volumes of solid figures, special triangles, similar polygons, area and perimeter, circles and probability. (Pre-requisite: Algebra I.)

**PRE-CALCULUS**

**441 (Honors) 1 Credit Required** A demanding, extensive and thorough course for mathematically proficient Juniors and Seniors who have successfully and effectively completed Honors Algebra or Algebra II. This course presents topics in advanced algebra and mathematics, integrated with a complete course in trigonometry in order to provide the essential foundation for the learning of calculus. Students will augment their problem-solving, reasoning and thinking skills through an array of topics and applications. After a review and enhancement of the critical and significant topics of Algebra, students will discuss conic sections, matrices, inverses and compositions of functions, exponential and logarithmic functions, trigonometric graphs, identities and formulas such as the Law of Sines and the Law of Cosines. Introduction of calculus topics such as Limits and Derivatives will help prepare seniors for college calculus and juniors for AP Calculus. A scientific graphing calculator will be used throughout this course. A calculator such as the TI-84+™, or TI nspire™, or TI nspire CAS™ is recommended. (Prerequisite: 411, 431, 421 and department recommendation.)

**COLLEGE ALGEBRA and TRIGONOMETRY**

**442 (Standard) 1 Credit Required** This course is primarily geared for Seniors who need to strengthen their algebraic and problem-solving skills in order to successfully handle college courses

in mathematics, engineering, the sciences or other fields requiring a strong mathematical foundation. The course begins with a detailed 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.)

**COLLEGE ALGEBRA, PROBABILITY & STATISTICS**

**453 (Anthony) 1 Credit Required** This senior Anthony program math course is designed to reinforce and integrate previously learned math concepts. Students taking this course will practice math theory and practical application to be prepared for entry level college courses, as well as math application in the real world. Focus will be on real world applications and assignments and will include projects, group activities and skill review. Calculators will be used to reduce calculation errors and emphasize process. This course is offered in two parts. First semester will focus on 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. A graphing/statistical calculator is required for this course.

**CALCULUS**

**461 (Honors) 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-level Calculus course, and juniors/sophomores will be prepared for AP Calculus. (Pre-requisites: Algebra 421 or Pre-Calculus 441 and departmental recommendation.)

**ADVANCED PLACEMENT CALCULUS AB**

**451 1 Credit Elective** This college-oriented course, is offered to those juniors and seniors gifted in mathematics and who intend to pursue undergraduate study in mathematics, science or related areas. It is designed to introduce students to the fundamentals and applications of both differential and integral calculus. Students who enroll in this course should possess an array of analytical, reasoning and problem-solving skills which will continue to be embellished and enhanced. After a brief review of preliminary concepts, course topics include limits, derivatives and their applications, integration techniques and applications, transcendental functions and partial differentiation. The course prepares students to take the national AP exam in order to qualify for credit for one semester of college level calculus. 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-84™/CE™/89™ are also acceptable. (Prerequisites: Geometry and Algebra II or PreCalculus, and departmental recommendation.)

**PROBABILITY & STATISTICS**

**466 1 Credit Elective** This course introduces students to the concepts and procedures for collecting, analyzing and drawing conclusions from data. Students will learn how to plan a statistical study; will explore data for patterns and departure from patterns; will create models of real world situations; will use statistical inference to draw conclusions from data; and will use probability to describe how confident one can be about the conclusions. The course provides a preparation for college statistics courses typically required in business, social and natural science, and health sciences. An approved calculator is required for this course. Recommended calculator is the TI nspire™/TI nspire CAS™ although the TI-84™/CE/89 are also acceptable. (Prerequisites 412,432,422 or 442.)

**ADVANCED PLACEMENT CALCULUS BC**

**481 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 functions 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: AP Calculus AB 451 or Honors Calculus 461, and departmental recommendation.)

**MULTIVARIABLE CALCULUS & ADVANCED ANALYSIS**

**491 (Honors) 1 Credit Elective** This course covers a number of advanced topics typically covered in Calculus 3 in a college Calculus course including: calculus in polar coordinates, vectors, dot products, cross products, vector valued functions, motion in space, multivariable functions and partial derivatives.

Gradients, extreme values, directional derivatives, multiple integrals, line integrals, and path independence are also covered. The Fundamental Theorem of Multivariable Calculus, Green's Theorem and Stokes' Theorem will also be applied in advanced analysis of Calculus problems. This course is for seniors only who have successfully completed AP Calculus BC. A graphing calculator is required for this course. Recommended calculator is the TI nspire CAS™ CX. (Prerequisite Course: AP Calculus BC 481 and departmental recommendation.)

## NATURAL SCIENCE

### BIOLOGY

**321 (Honors) 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 (Standard) 1 Credit Required** Biology studies the interrelationships of life, the cell, evolution, and hereditary. 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 Standard freshmen.

### BIOLOGY

**323 (Anthony) 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.

### CHEMISTRY

**331 (Honors) 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 (Standard) 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 Standard sophomores.

### CHEMISTRY

**333 (Anthony) 1 Credit Required** This is an introductory course into the world of chemistry. Topics include investigations into structure and properties of matter, use of periodic table, bonding, the nature of matter in solution, and acids and bases types of reactions. People in chemistry, as well as topics in society and our world are also included. This course is required for Anthony 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 introductory, simple 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 seniors and juniors, with Departmental approval. **Offered only fall of even years.**

### ADVANCED PLACEMENT BIOLOGY

**359 1½ 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. As a 1½ 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

**362 (Standard) 1 Credit Elective** This course focuses on the collection, identification, and analysis of crime scene evidence. Emphasis will be placed on the methods that link the suspect, victim and crime scene. A variety of laboratory exercises will be performed from various science disciplines. Case studies and current events will also be explored. (Available to juniors and seniors.) Teacher approval is required.

### FORENSIC SCIENCE

**363 (Anthony) 1 Credit Elective** An introductory course on forensics focused on the collection, identification, and analysis of crime scene evidence. A variety of laboratory exercises will be performed from various science disciplines. Fingerprinting, blood spatter, ballistics, and glass analysis are the major topics of study. Available to Anthony juniors and seniors, with Teacher approval. **Offered only fall of even years.**

### COLLEGE ANATOMY & PHYSIOLOGY

**370 (Honors) 1 Credit Elective** Anatomy and Physiology is a one credit one year course in the construction and functioning of a human being. Anatomy and Physiology is designed to be the equivalent of a one semester college Anatomy course. All of us have a natural curiosity about our construction - our bodies. This course will allow students to address their curiosity through classroom work and a variety of laboratory explorations. Lab activities include dissection.

Both the structural components of the body systems in a human will be emphasized along with the physiology, of our systems. Available to Honors juniors and seniors. (Prerequisites: successful completion of Biology and Teacher approval.) **Offered only fall of even years.**

### HUMAN ANATOMY

**372 1 Credit Elective** Human Anatomy is a one credit one year course in the construction and functioning of a human being. All of us have a natural curiosity about our construction - our bodies. This course will allow students to address their curiosity through classroom work and a variety of laboratory explorations. Lab activities include dissection. The structural components, the anatomy, of the body systems in a human will be emphasized. Some functioning, the physiology of organs and systems, will also be covered. Available to Standard juniors and seniors. (Prerequisites: successful completion of Biology and Teacher approval.)

### TOPICS IN BIOTECHNOLOGY (TIB)

**374 (Honors) 1 Credit Elective** A lab-oriented course designed for upper level students who have successfully completed Biology and Chemistry. This year-long course offers students an opportunity to explore scientific inquiry, the biotechnology industry, atomic interactions & separation techniques, DNA structure, Microbiology, The Central Dogma & Gene Expression, and Bioethics. TIB will include career exploration in the Biotechnology field. This course is supplemented with laboratory exercises that demonstrate the basic techniques of biotechnology. The exercises are designed to provide a hands-on context for the topics being presented in the course. A Capstone Project requiring students to develop solutions to Biotechnology issues is an element of the course.

### ENGINEERING ESSENTIALS

**389 (Honors) ½ Credit Elective** Engineering Essentials (EE) is the foundational course for the engineering program. The primary goal of this course is to build enthusiasm for engineering while understanding the role, impact and practice of engineering. The course utilizes an Activity-Problem-Project (APB) based approach to take students from structured activities to open-ended design problems. Students will work individually and collaboratively to explore and investigate engineering concepts applicable to a range of disciplines while fostering problem solving, critical thinking and communication

skills. This course is open to standard level and honors freshmen.

## PRINCIPLES OF ENGINEERING (POE)

**395** **1 Credit**  
**Elective** Principles of Engineering (POE) is a foundation course of the high school engineering pathway. This survey course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students explore a broad range of engineering topics through activity-, project-, and problem-based (APB) learning, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. (Available to second year engineering students, with Department Chair approval.)

## AEROSPACE ENGINEERING

**396** **1 Credit**  
**Elective** Students explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components related to flight such as an airfoil, propulsion system, and a rocket. Students learn orbital mechanics concepts and apply these by creating models using industry-standard software. Students also apply aerospace concepts to alternative applications such as a wind turbine and parachute. Students simulate a progression of operations to explore a planet, including creating a map of the terrain with a model satellite and using the map to execute a mission using an autonomous robot. (Available to third/fourth year engineering students, with Department Chair approval.)

## ELECTRICAL VEHICLE ENGINEERING

**397 (Honors)** **1 Credit**  
**Elective** Electric Vehicle Engineering is an upper level elective in the engineering program. In this course, students will apply the concepts of physics, battery chemistry, math, environmental sustainability, and renewable energy as they are challenged to build a full size, road-worthy electric vehicle. Students must consider the principles of electric vehicle design, manufacturing and maintenance as they work in collaborative groups to complete each system of the vehicle. Students will develop essential workforce skills including communication, teamwork, adaptability, work ethic and problem-solving. Students have the opportunity to customize the design based on testing and analysis including aerodynamics, LIDAR systems and front wheel drive.

## PHYSICAL EDUCATION

### HEALTH

**814 (Honors)** **½ Credit**  
**Required** This course covers topics in mental and emotional health, managing stress, skills for healthy relationships with family and peers, resolving conflicts and preventing violence, nutrition, physical activity, personal health care, drugs, alcohol, and reproduction. This course includes Power Point lectures, chapter related activities, as well as class discussions.

### HEALTH

**815 (Standard)** **½ Credit**  
**816 (Anthony)**  
**Required** This course covers topics in mental and emotional health, managing stress, skills for healthy relationships with family and peers, resolving conflicts and preventing violence, nutrition, physical activity, personal health care, drugs, alcohol, and reproduction. This course includes PowerPoint lectures, chapter related activities, as well as class discussions.

## PHYSICAL EDUCATION I

**822** **½ Credit**  
**Required** Students will receive instruction and participate in the following team sports: flag football, soccer, basketball, volleyball, team handball, lacrosse and softball. In addition, students will be introduced to basic weight training and life fitness activities in order to promote a healthier lifestyle.

## PHYSICAL EDUCATION II

**832** **½ Credit**  
**Required** Students will receive instruction and participate in the following team sports: flag football, soccer, basketball, volleyball, team handball, lacrosse and softball. In addition, students will be introduced to basic weight training and life fitness activities in order to promote a healthier lifestyle.

## WEIGHT TRAINING & CONDITIONING

**852** **½ Credit**  
**Elective** This course is designed for those interested in their own personal fitness. Use of the weight room, coupled with cardiovascular training will be emphasized. Available to juniors and seniors.

## ATHLETIC TRAINING

**861 (Honors)** **1 Credit**  
**862 (Standard)**

**Elective** The course is designed to educate the students on prevention, care, treatment, and rehabilitation of athletic injuries. The student will be educated on the different careers in the field of sports medicine. The students will be introduced to the anatomy of the body as it pertains to athletic injuries. The course is conducted through PowerPoint lecture notes, classroom discussions, and labs. Each student must complete 10 hours of field service during the school year. Honors students must complete 30 volunteer hours outside of the classroom shadowing a medical professional of their choice. Available to juniors and seniors.

## SOCIAL STUDIES

### WORLD CIVILIZATION

**211 (Honors)** **1 Credit**  
**Required** A freshman requirement, this course serves to establish a historical foundation for the student to be used in all future studies. Class instruction, along with individual and group research, will investigate the historical contributions of individuals, governments, and societies together with attitudes which have influenced the world from the Greek and Roman period to the present.

### WORLD CIVILIZATION

**212 (Standard)** **1 Credit**  
**213 (Anthony)**  
**Required** A freshman requirement, this course serves to establish a historical foundation for the student to be used in all future studies. Class instruction, along with individual and group research, will investigate the historical contributions of individuals, governments, and societies together with attitudes which have influenced the world from the Greek and Roman period to the present.

### UNITED STATES HISTORY I (Colonization to 1865)

**221 (Honors)** **1 Credit**  
**Required** 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 sectionalism 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.

### UNITED STATES HISTORY I (Colonization to 1865)

**222 (Standard)** **1 Credit**  
**223 (Anthony)**  
**Required** 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 sectionalism 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 formation 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.



## ADVANCED PLACEMENT AMERICAN GOVERNMENT AND POLITICS

**251** **1 Credit**  
**Elective** AP United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics 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 theoretical perspectives and explanations for various behaviors and outcomes. A college level text is used and an extensive 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.

## ADVANCED PLACEMENT UNITED STATES HISTORY

**261** **1 Credit**  
**Required** This course is designed to provide one with the rich scholarship in American social, economic, political, cultural and intellectual history. The course is a college-paced course that will provide one with an in-depth and analytical study of the United States, from its earliest inhabitants and the discovery of the New World, through the beginnings of the twenty-first century. The course will emphasize the inner histories of people and how they contend and interact with one another in the drama that is American history. A college level text is used and an extensive amount of reading is required. Students are expected to sit for the AP Exam in May. Available to Honors and Standard sophomores and juniors with Department approval.

## UNITED STATES HISTORY II (1865 to the Present)

**272 (Standard)** **1 Credit**  
**273 (Anthony)**

**Required** 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.

## UNITED STATES HISTORY II (1865 to the Present)

**275 (Honors)** **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. This course will use additional resources to supplement the text. Resources will be supplied by the course instructor to enrich the existing content. Available to juniors.

## GEOGRAPHY

**292** **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.

## TECHNOLOGY

### TECHNOLOGY INTERNSHIP PROGRAM

**790** **1 Credit**

**Elective** Students will join a team which supports the school's technology program. Students will learn how to set up, configure and care for iPads, PC's, printers, copiers and more. This is a "learn by doing/hands on" program where students work with the Technology Director and Assistant Technology Director to support all of the devices in the school. During the school year, students meet regularly during the school cycle. One academic credit in Technology will be given for successful completion of the program. Available to juniors and seniors with Technology Director approval.

## PROGRAMMING USING

**C++**

**791 (Honors)** **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 Github. 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 computerscience. 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 (Standard)**

**013 (Anthony)**

**Introduction to the Bible and Mystery of Jesus Christ**

**Required** In the first semester, this course provides an introduction to the 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 (Standard)**

**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 (Standard)**

**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 the 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 (Standard)**

**043 (Anthony)**

**Catholic Social Teaching & Vocations**

**Required** The Senior Theology requirement will consist of two elements, divided by each semester. In the first semester, students will be introduced to the Church's social teaching. In this course, students are to learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission. The second semester will feature Christian Lifestyles and Vocations which teaches students about who they are and their relationships 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 as authentic Franciscan ministers both currently in our Curley community, and in the future as part of one's community, parish and family. The year will begin by discussing various existential questions of human nature such as happiness, grace, freedom, conscience and faith. Students will learn how to approach these various topics in their own lives and how to employ various basic peer ministry strategies. The course will then analyze practical applications of these fundamental principles. These will include discussions about human dignity, the sacramental life, virtue, sexuality, mercy, death, and grief. The students will be challenged to relate these various topics to their lives and find ways where they can authentically minister to their peers. Special attention will be made to show how Saint Francis and Franciscan Spirituality can speak to the various topics discussed and be a model of a radical living of the Christian life. Students will be expected to help plan and execute various FYM or school-wide activities. This course will fulfill the junior religion requirement and all students will receive honors credit from this course. This course requires previous involvement in the FYM program and requires approval of the director of campus ministry and one's teacher.

speak to the various topics discussed and be a model of a radical living of the Christian life. Students will be expected to help plan and execute various FYM or school-wide activities. This course will fulfill the senior religion requirement and all students will receive honors credit from this course. This course requires previous involvement in the FYM program and requires approval of the director of campus ministry and one's teacher.

## INTRODUCTION TO PHILOSOPHY

**046** **1 Credit**  
**Elective** The introduction course is designed for students to discover some of the basics of philosophy as well as of reasoning, therefore the course begins with a look at basic arguments and how to work with them and avoid fallacies. This is followed by readings in Plato concerning the trial and death of his mentor Socrates. The last part of the course will be determined by the interest in the room. We can search a topic area in philosophy, e.g. law or epistemology, a particular type of philosophy, e.g. pragmatism (an American philosophy), or a particular philosopher, e.g. Edmund Husserl and Phenomenology. There are other studies where we could go as well, but it is determined by the interest of the class. Courses are run so that students learn how to write a college level paper in philosophy during the quarter along with other writing assignments.

## SENIOR CATHOLIC LEADERSHIP

**045** **1 Credit**  
**Elective** This course will attempt to form students as authentic Franciscan ministers both currently in our Curley community, and in the future as part of one's community, parish and family. During the first semester, students will learn about the foundations of Catholic Social Teaching. Topics will include global poverty, immigration, racism, violence, and care for the environment. Students will be expected to reflect upon these topics and help to find ways to promote service opportunities at Curley. During the second semester, students will be given the opportunity to discuss various joys and struggles that they have or will face as they continue to grow in maturity and in their spiritual lives. Students will be asked to reflect upon ways that they can minister to others facing issues such as personal identity, spiritual questioning, interpersonal conflict, work, and life transitions. Students will also be asked to reflect upon their own vocations and how to discern God's will in their lives. Special attention will be made to show how Saint Francis and Franciscan Spirituality can

### IMPORTANT NOTES for STUDENT REGISTRATION

- 1) Students will fill out course selection sheets virtually through Plus Portals.
- 2) Before submitting, students should consult and review course selections with teachers, parents, and counselors.
- 3) Teachers, Counselors, Department Chairs and Program Coordinators will review student course selections and adjustments may be made.
- 4) Course Verification forms will be distributed and must be signed by a parent/guardian and returned to the student's Faculty Advisor. Please review your form carefully to ensure they match up with your intended coursework.
- 5) If you do not return a signed Verification Form, you will NOT receive a schedule!



### MINIMUM GRADUATION REQUIREMENTS

Religious Studies.....	4.0 credits
English .....	4.0 credits
Mathematics.....	4.0 credits
Social Studies .....	3.0 credits
Natural Sciences .....	3.0 credits
Language/Reading.....	2.0 credits
Health.....	0.5 credit
Fine Arts .....	0.5 credit
Physical Education.....	1.0 credit
Electives.....	4.0 credits
<hr style="border: 0.5px solid black;"/>	
TOTAL .....	26.0 credits

### 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 Standard 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, French 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.