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# ARCHBISHOP CURLEY HIGH SCHOOL

## COURSE DESCRIPTION CATALOG

2026-2027



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**

**711 (Honors) 1 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 cannot be used by the student as a required elective but rather as a 7th class in his schedule.

**PRINCIPLES OF BUSINESS**

**720 (College Prep) 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 juniors and seniors.

**PERSONAL FINANCE**

**725 (College Prep) 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 juniors and seniors.

**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.

**ADVANCED PLACEMENT  
BUSINESS WITH  
PERSONAL FINANCE**

**752 1 Credit**  
**Elective** This is a business and personal finance course that aligns closely with a college-level introduction to business course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business applications, case studies, and project-based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the JumpStart Coalition for Personal Financial Literacy.

**ENGLISH**

**READING/WRITING I**

**104 1 Credit**  
**Required for the Saint Anthony Program**  
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**  
**Placement by the Saint Anthony Program Coordinator 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**

**Composition, Grammar, and Literature Survey**

**111 (Honors)**

**112 (College Prep)**

**113 (Anthony) 1 Credit**  
**Required** This course is designed to introduce the student to the various genres of literature: short stories, poetry, epic poems, 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 writing a research paper.

**ENGLISH II**

**Composition, Literary Genres and World Literature**

**121 (Honors)**

**122 (College Prep)**

**123 (Anthony) 1 Credit**  
**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 from around the world: 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 learned freshman year.

**ENGLISH III**

**American Literature**

**141 (Honors)**

**142 (College Prep)**

**143 (Anthony) 1 Credit**  
**Required** The objective of the junior American Literature course is to intro-

duce the student to the development of American Literature from Early American Literature to the Modern Age. The course engages students in close reading, discussion, interpretation, and critical analysis of both fiction and non-fiction works: poetry, plays, speeches, essays, short stories, and novels. During the year, students will be challenged to develop their writing skills through intensive college preparatory and SAT-level composition including research papers and formal essays.

**ENGLISH IV**

**British Literature**

**131 (Honors)**

**132 (College Prep)**

**133 (Anthony) 1 Credit**  
**Required** This course surveys the development of British literature from the Anglo-Saxon Period through the Modern Period. The course explores the impact of culture and historical events on the development of British literature, and engages students to critically analyze a variety of literature: fiction, epic, drama, poetry, essays, and novels. Additionally, students continue to develop writing skills through college preparatory and creative writing in a variety of essays and a research paper. Reading comprehension, grammar, and vocabulary are studied within the context of the readings.

**REAL WORLD WRITING**

**153 (Anthony) 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 St. Anthony Program Coordinator or Counselor required.

**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** The Advanced Placement English Literature and Composition engages students in the careful reading and critical analysis of fiction at the college level. Students will encounter works across several genres and periods. 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. Writing is an integral part of the AP English Literature and Composition course and exam. Assignments focus on the critical analysis of literature and include analytical, argumentative, and expository essays. Students who sit for the exam in May will have the opportunity to earn AP credit. Teacher recommendation required.

### LITERARY and MASS MEDIA ARTS

**189 (Honors)**  
**190 (College Prep)** **1 Credit Required** The objective of this course is to introduce the fundamentals of journalism, creative writing, and mass media in society. Students will engage in the various forms of writing, application and analysis of print and non-print media, layout and design, and journalistic writing skills fundamental to news literacy. The course explores media ethics, media research, media law, creative communication, critical thinking skills required for news judgement, and student journalists' responsibilities and rights in accordance with the First Amendment. The course involves a hands-on performance assessment in the production of the school newspaper, *The Curley Chronicle*. This course fulfills the English requirement for graduation. Teacher recommendation required. (Seniors Only)

### LITERATURE IN ENTERTAINMENT: FROM BOOK TO SCREEN

**193 (Honors)**  
**194 (College Prep)**  
**195 (Anthony)** **1 Credit Required/Elective** This course will analyze literature as compared to its modern-day entertainment-based counterparts, analyzing the original works and its corresponding film adaptation and/or other forms of literature, like graphic novels. Students will learn about the genre and historical background of each selection before analyzing the literature in order to make connections between "then" and "now." This course fulfills the English requirement for graduation. Teacher recommendation required. (Seniors Only)

## FINE ARTS

### ART SEMINAR

**911 (Honors)**  
**912 (College Prep)**  
**913 (Anthony)** **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.  
Fulfills Fine Arts credit requirement.

### MUSIC APPRECIATION

**921 (Honors)**  
**922 (College Prep)**  
**923 (Anthony)** **½ Credit 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)**  
**932 (College Prep)** **1 Credit 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: Intermediate Instrument)\*

### MUSIC HISTORY

**941 (Honors)**  
**942 (College Prep)**  
**943 (Anthony)** **½ Credit 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.)

### BRASS BEGINNER

**955 (Honors)**  
**958 (College Prep & Anthony)**

### WOOD BEGINNER

**956 (Honors)**  
**959 (College Prep & Anthony)**

### PERCUSSION BEGINNER

**957 (Honors)**  
**960 (College Prep & Anthony)**

**1 Credit Required** A performance oriented course in which the student learns to play an instrument. 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 Symphonic Band. Assigned performances are a requirement. (Prerequisite: a beginning course in instrumental music) Fulfills Fine Arts credit requirement.\*

### BRASS INTERMEDIATE

**965 (Honors)**  
**968 (College Prep & Anthony)**

### WOOD INTERMEDIATE

**966 (Honors)**  
**969 (College Prep & Anthony)**

### PERCUSSION INTERMEDIATE

**967 (Honors)**  
**970 (College Prep & Anthony)**

**1 Credit 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: Beginner Instrument)\*

### JAZZ ENSEMBLE

**961 (Honors)** **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)**  
**972 (College Prep)** **1 Credit 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 THEATRE

**975 (Honors)**  
**976 (College Prep)** **1 Credit Elective** This course develops students' theatrical skills and deepens their appreciation of theatre through an introduction to the fundamental elements of drama and stage production. Students examine the history and literature of theatre while gaining hands-on experience in key areas of production, including acting, improvisation, directing, choreography, lighting, costume design, makeup, publicity, and set design and construction. Course requirements include attending or viewing a live stage production and completing a written reflection each quarter. Field trips to local, regional, or Broadway theatres may be included. Available to Juniors and Seniors.

## DESIGN & COMPOSITION 983 (Honors)

**984 (College Prep) ½ Credit 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 work that demonstrate an understanding of the elements and principles. (Prerequisite: successful completion of Art Seminar with an average of 80 or better).

## ADVANCED PLACEMENT 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: Drawing. Their goal will be to create a portfolio of college-level work, and at the end of the school year, submit it for evaluation. The portfolio has three major components: 5 Selected Works of a student's best quality, 15 Sustained Investigation works on a focused theme, and Written Evidence that supports the work presented. In the spring, students will upload digital images of their work and commentary online. A qualifying portfolio score can earn college credit and/or advanced placement. Students' work will be exhibited during the Spring Art Show (attendance is mandatory). Available to juniors and seniors only. Instructor approval required for enrollment.

## ADVANCED PLACEMENT 2D: PHOTOGRAPHY

**988 1 Credit Elective** A course designed to assist students in exploring digital photography as a visual art form. Topics will include light science, cameras and lenses, historical perspective, compositional techniques, black and white photography, and theme development. Basic digital image manipulation and editing will be introduced. As an AP Studio Art student, students are required to emphasize research, experimentation, discovery, inventive thinking, critical analysis and problem-solving in their work. In the AP 2D Photography class, students will work toward submission of a portfolio exam for AP Studio Art: 2D. Their goal will be to create a portfolio of college-level work, and at the end of the school year, submit it for evaluation. The portfolio has three major components: 5 Selected Works of a student's best quality, 15 Sustained

Investigation works on a focused theme, and Written Evidence that supports the work presented. In the spring, students will upload digital images of their work and commentary online. A qualifying portfolio score can earn college credit and/or advanced placement. Students' work will be exhibited during the Spring Art Show (attendance is mandatory). Available to juniors and seniors only. Teacher approval required.

## CURLEY CHOIR 991 (Honors)

**992 (College Prep) 1 Credit 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.

## INDEPENDENT STUDY

### TEACHER'S AIDE INDEPENDENT STUDY

**871 (Honors) 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)

### DEPARTMENT INTERNSHIP

**872 (Honors) 1 Credit** This internship, available for juniors or seniors, offers students the ability to work under the supervision of a staff member(s) in the building during a study hall period. The internship experience is designed to be relevant to the student's academic, personal, or professional preparation. Opportunities are available in Admissions, Athletic Training, Marketing, the Science Department, Special Events, Technology, or the

Theology Department. The student will gain valuable knowledge and apply that to real world challenges. They will engage in responsible conduct while working. They will learn to effectively communicate with outside members of the community as well. This is a year-long internship earning one credit as a pass/fail. (Prerequisite: Approval of the Department Mentor)

## 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 technology.

### SPANISH I

**512 (College Prep) 517\* (Anthony) 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 technology. (\*517 for St. Anthony Program sophomores/juniors only with recommendation of St. 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 (College Prep) 526\* (Anthony) 1 Credit 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. (Prerequisite: 512 or 517)

### SPANISH III

**532 (College Prep) 1 Credit Elective** This course is a continuation of the vocabulary, grammar, and structure studied in Spanish II and is offered to College Prep 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 in-depth 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 531 and teacher approval)

### SPANISH IV

**542 (College Prep) 1 Credit Elective** This course will focus on more advanced grammatical concepts and is offered to College Prep 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)

## CLASSICAL MYTHOLOGY

**580 (Anthony) 1 Credit Elective** This course will introduce students to Greek and Roman mythology. Students will read excerpts from ancient authors like Ovid, Homer, and Euripides and modern authors like Rick Riordan (Available to juniors and seniors with teacher approval.)

### LATIN I

**584 (Honors) 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 (Honors) 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. (Prerequisite: 584)

### LATIN III

**590 (Dual Enroll) 1 Credit Elective** Latin III will focus on exploring the following Latin genres: history, science, philosophy, and mythology. Students will read lightly adapted and unadapted excerpts from Einhard, Curtius Rufus, Pliny the Elder, Pliny the Younger, Seneca the Younger, Lucretius, and Ovid with an eye to vocabulary, advanced grammar, and culture. (Prerequisite: 585)

### LATIN IV

**591 (Dual Enroll) 1 Credit Elective** Latin IV will focus on exploring the following Latin genres: rhetoric, food, fables and engineering. Students will read lightly adapted and unadapted excerpts from Cicero, Pseudo-Vergil, Apicius, Anthimus, Phaedrus, Vitruvius, and Pompeian Graffiti with an eye to vocabulary, advanced grammar, and culture. (Prerequisite: 590)

### 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 (College Prep) 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.

### FRENCH II

**621 (Honors) 1 Credit Required** An accelerated continuation of studying speaking, listening, reading, and writing the French language. A continuation of the fundamental linguistic skills presented in French I with a greater emphasis on grammar, speech patterns, sentence structures

and conversational skills. The course aims to prepare the student for greater understanding of the spoken language and to prepare him for further study of French literature. Students will read short stories, novels and more emphasis will be placed on writing. Students will continue to study Francophone customs and culture. (Prerequisite: 611)

### FRENCH II

**622 (College Prep) 1 Credit Required** A continuation of studying speaking, listening, reading and writing the French language. A continuation of the fundamental linguistic skills presented in French I, with a greater emphasis on grammar, speech patterns, sentence structures and conversational skills. Students will continue to study Francophone customs and culture. (Prerequisite: 612)

### FRENCH III

**631 (Dual Enroll) 1 Credit Elective** An accelerated continuation of the fundamental linguistic skills presented in Honors French II, 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 Francophone short stories and poetry. Greater emphasis is placed on the spoken language. (Prerequisite: Honors French II 621)

### FRENCH III

**632 (College Prep) 1 Credit Elective** This course is a continuation of the vocabulary, grammar, and structure studied in French II. An emphasis will be placed on the spoken language. This course will include an introduction to Francophone short stories and poetry. (Prerequisite: French II 622)

### FRENCH IV

**633 (Dual Enroll) 1 Credit Elective** The course is conducted primarily in French. Emphasis is placed upon class discussion and composition. An in-depth study of French literature in the forms of short stories, essays, poetry, novels, and drama is included in the course. Grammatical structures and vocabulary are reviewed and applied to both literature and composition.

## MATHEMATICAL SCIENCES

### ALGEBRA I

**411 (Honors) 1 Credit Required** A rigorous 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 (College Prep) 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

**410 (Anthony) 1 ½ 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 differentiated pace in order to internalize the basic concepts of algebra. 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.

### 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 (College Prep) 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 and Geometry. 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 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)

### FINANCIAL ALGEBRA

**424 (College Prep) 1 Credit Required** A senior course is organized around the foundational concepts of Financial Algebra. The course is proposed as an alternative, advanced algebra-based course for students who are planning to enter fields other than mathematics or science but still require a rigorous fourth year math course beyond Algebra 2. The course incorporates algebra, geometry, trigonometry, graphing, probability, and statistics into units driven by financial concepts. The course teaches and uses advanced algebra in the content areas of discretionary spending, banking, credit, auto and home ownership, employment, taxes, investments, entrepreneurship, retirement, and budgeting. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. In addition to a personal i-pad or PC, a graphing/statistical calculator like the TI-84 or other comparable calculator is required.

(Prerequisite: Only seniors who have completed 422 or 423.)

## 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 Algebra II 421)

## PLANE GEOMETRY

**432 (College Prep) 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 and 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 (College Prep) 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.

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.

## INTRODUCTION TO PROBABILITY & STATISTICS

**454 (Anthony) 1 Credit Required** 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. The course provides preparation for introductory college statistics courses typically required in business, social and natural science, and health sciences. This course is focused primarily on Descriptive Statistics and Mathematical Literacy. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. In addition to personal iPad or PC, a graphing/statistical calculator like the TI-84 or other comparable calculator is required. (Prerequisites: Successful completion of 423 and a student in the St. Anthony program.)

## 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. (Prerequisites: Algebra 421 or Pre-Calculus 441 and departmental recommendation)

## ADVANCED PLACEMENT CALCULUS AB

**451 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. 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 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. This course is only offered to seniors. 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 (College Prep) 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 Elective** This advanced course is offered to juniors or 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: 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, the Theory of Evolution, the Gene Theory and their interrelatedness. Students will study the chemical organization of life, cells, aspects of metabolism, genetics, evolution, life processes, ecology and biological history. Reading current literature on the biological sciences and participating in laboratory investigations, which are a required part of the course, will assist in teaching the concepts and develop-

ing an appreciation of the biological sciences. This course is required for Honors Freshmen.

### BIOLOGY

**322 (College Prep) 1 Credit Required** This course provides a comprehensive exploration of life's interrelationships, including the Cell Theory, the Theory of Evolution, and the Gene Theory. Through instruction, students grasp key theories and gain insight into life's complexity. Laboratory investigations complement the course, fostering appreciation of the biological sciences and reinforcing concepts. This course is required for College Preparatory 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 required for Honors Sophomores.

### CHEMISTRY

**332 (College Prep) 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 College Preparatory 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 CHEMISTRY

**334 1 Credit Elective** Advanced Placement (AP) Chemistry is a rigorous, college-level course designed to provide students with a deep understanding of the fundamental principles governing chemical systems. The course emphasizes inquiry-based learning, critical thinking, and problem-solving through both theoretical study and hands-on laboratory investigations. Students will explore topics including atomic structure, molecular and ionic compounds, chemical reactions, stoichiometry, thermochemistry, kinetics, chemical equilibrium, acids and bases, electrochemistry, and thermodynamics. Laboratory work is an essential component of the course and focuses on developing skills in experimental design, data analysis, and scientific communication.

Throughout the course, students will apply mathematical reasoning, develop conceptual models, and analyze experimental evidence to explain chemical phenomena. AP Chemistry prepares students for the AP Chemistry Exam and provides a strong foundation for future studies in chemistry, engineering, medicine, and other STEM-related fields. This course will meet 5 out of the 6 days in the cycle. Available to Juniors and Seniors. Teacher approval is required.

## ADVANCED PLACEMENT PHYSICS I

**341 1 Credit Elective** 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 will meet 5 out of the 6 days in the cycle.) This course is designed for juniors and seniors in the Honors program. Teacher approval is required.

## PHYSICS

**352 (College Prep) 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.

## ADVANCED PLACEMENT BIOLOGY

**359 1 Credit 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. (This course will meet 5 out of the 6 days in the cycle.) Available to juniors and seniors. Teacher approval is required.

## FORENSIC SCIENCE

**362 (College Prep) 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.)

## 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 in the fall of even years.

## FORENSIC SCIENCE II

**364 (College Prep) 1 Credit Elective** Forensics Science is the use of the scientific method to analyze evidence and solve crimes. In Forensics II students will continue exploring the multiple different fields and types of evidence involved in solving crimes. This class will discuss topics such as forensic botany, forensic toxicology, DNA, question documents/forgeries and arson. Students will apply their expertise to authentic case studies. The course will support students as they are able to continue the study of the criminal justice system, and how evidence is collected, processed, and eventually used in court proceedings. Crimes such as forgeries, counterfeiting, murders, assaults, and sexual assaults will be studied. Required to take Forensic Science 362 first.

## PRINCIPLES OF BIOMEDICAL SCIENCE (PBS)

**377 (Honors) 1 Credit Elective** This is a full-year high school course in the PLTW Biomedical Science Program. The course serves to provide foundational knowledge and skills in fields such as biology, anatomy & physiology, genetics, microbiology, and epidemiology as well as engage students in how this content can be applied to real-world situations, cases, and problems. Through both individual and collaborative team activities, projects, and problems, students will tackle real-world challenges faced by biomedical professionals in the field. They will work with the same tools and equipment used in hospitals and labs as they engage in relevant hands-on work. Students will develop skills in technical documentation to represent and communicate experimental findings and solutions to problems. In addition, students will explore how connections to other disciplines such as computer science and engineering shape the future of medicine and practice collaboration techniques that will help them connect with professionals across any field. (www.PLTW.org).

## HUMAN BODY SYSTEMS (HBS)

**378 (Honors) 1 Credit Elective** This is a full-year high school course in the PLTW Biomedical Science Program. Human Body Systems is a hands-on, project-based course in which students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Using real-world case studies, students investigate how the body's structures and functions work together to maintain health. Through activities such as dissections, data analysis, medical simulations, and the use of advanced technology, students develop a deeper understanding of anatomy, physiology, and biomedical science while building problem-solving, collaboration, and critical-thinking skills. This course prepares students for further study in health sciences, medicine, and STEM-related fields. This course is designed for students continuing in the PLTW Biomedical Science Program or for students interested in Human Anatomy and Physiology.

## ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

**381 1 Credit Elective** AP Environmental Science provides 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 environ-

ments; and the effects 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).

## 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 college prep level and honors Freshmen.

## INTRODUCTION TO ENGINEERING DESIGN

**391 (Honors) 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. (Prerequisite: Engineering Program Coordinator approval).

## PRINCIPLES OF ENGINEERING (POE)

**395 (Honors) 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 third year engineering students, with

Engineering Program Coordinator approval.) (Prerequisite: 391)

## 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.

## PROGRAMMING

**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 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.

## PLTW COMPUTER SCIENCE PRINCIPLES (CSP)

**400 (Honors) 1 Credit Elective** PLTW Computer Science Principles (CSP) is aligned with the College Board AP Computer Science Principles exam requirements and framework. In Computer Science Principles, students develop the in-demand computer science skills critical to thrive in any of today's and tomorrow's careers. The course promotes computational thinking and coding fundamentals and introduces computational tools that foster creativity. It aims to build students' awareness of the tremendous demand for computer scientists and those who have computational thinking skills and engages students to consider issues raised by the impact of computing on society. Each unit also focuses on one or more computer science

specific career paths. Computer Science Principles provides students with a broad exposure to the many aspects of computer science while encouraging creativity, socially responsible choices, and ethical behavior. It inspires algorithmic and computational thinking, helping students see themselves in a career path they might not have initially chosen. (Available only for Juniors and Seniors.)

## ONLINE COLLEGE COURSES

### COLLEGE INTRO TO PSYCHOLOGY - ONLINE 284

**1 Credit Elective** This is an online Psychology course offered through the Community College of Baltimore County. Students will earn credit from Curley as well as 3 undergraduate credits from the Community College of Baltimore County. 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 the Community College of Baltimore County. Students will earn credit from Curley as well as 3 undergraduate credits from the Community College of Baltimore County. 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.

## PHYSICAL EDUCATION

### HEALTH

**814 (Honors)**

**815 (College Prep)**

**816 (Anthony) ½ Credit Required** This course covers topics in mental and emotional health, managing stress, skills for healthy relationships with family and peers, resolving con-

flicts 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.

## PHYSICAL EDUCATION I

**824 (College Prep) 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 (College Prep) ½ Credit Elective** 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. Available to juniors and seniors.

## WEIGHT TRAINING & CONDITIONING

**851 (Honors)**  
**852 (College Prep) 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)**  
**862 (College Prep) 1 Credit 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 an additional 30 clinical hours in the Athletic Training Room during the school year. The honors students will be required to write a reflection paper about their experience. Available to juniors and seniors.

## SOCIAL STUDIES

### WORLD CIVILIZATION

**211 (Honors)**  
**212 (College Prep)**  
**213 (Anthony) 1 Credit Required** A freshman requirement, this course serves to establish a historical foundation for the student to be used in all future studies. Students will discuss the methods and sources of historical study, the foundation of civilization, and the lasting achievements and contributions of civilizations from the ancient Fertile Crescent to the Enlightenment.

### U.S. HISTORY SURVEY

**220 (Honors) 1 Credit Required** This course offers a rigorous, one-year survey of United States history from English colonization in North America through the end of World War II and the emergence of the Cold War. Students examine political, social, economic, and cultural developments that shaped the nation, with emphasis on constitutional principles, expansion, reform movements, industrialization, major conflicts, and America's growing role in global affairs. The course develops historical thinking skills through analysis of primary and secondary sources and serves as a strong foundation for advanced study in AP U.S. History or AP Government.

### UNITED STATES HISTORY I (Colonization through Reconstruction)

**222 (College Prep)**  
**223 (Anthony) 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 Reconstruction. 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.

### AMERICAN MILITARY HISTORY

**224 (Honors)**  
**225 (College Prep)**  
**226 (Anthony) ½ Credit Elective (This is a half credit course that will be taken for one semester. Students who take this course will be taking Geography for half credit the adjacent semester.)**

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 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 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 College Prep sophomores and juniors with Department approval.

### UNITED STATES HISTORY II (The Gilded Age to the Present)

**272 (College Prep)**  
**273 (Anthony) 1 Credit Required** This course will examine the social, cultural, economic, and political development of the United States from the Gilded Age to the present. The course will examine the consequences of 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 (The Gilded Age to the Present)

**275 (Honors) 1 Credit Elective** This course will examine the social, cultural, economic, and political development of the United States from the Gilded Age to the present. The course will examine the consequences of 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

**227 (Honors)**  
**228 (College Prep)**  
**229 (Anthony) ½ Credit Elective (This is a half credit course that will be taken for one semester. Students who take this course will be taking American Military for half credit the adjacent semester.)** This course is designed to show the relationship between history and geog-

raphy 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.

## THEOLOGY

### THEOLOGY I

**011 (Honors)**

**012 (College Prep)**

**013 (Anthony) 1 Credit**  
**God and Life's Big Questions**

**Required** The first semester of this course will provide students with a basic understanding of Catholic-Christian origins, beliefs, practices, organization, history, and other key characteristics. Students will also be introduced to the life and teachings of St. Francis of Assisi and the Franciscan movement, with special emphasis on how Franciscan ideals and values can be applied to the daily life of each Curley man.

The second semester will provide an introduction to the Sacred Scriptures and to the unfolding of salvation history, with a particular focus on the Old Testament.

### THEOLOGY II

**021 (Honors)**

**022 (College Prep)**

**023 (Anthony) 1 Credit**  
**An Encounter with God's Love: The Person of Jesus Christ and the Church**

**Required** The first semester allows the students to 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. 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).

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. The students also learn about the Seven Sacraments, especially the Eucharist, in order to enable them to more fully participate in them.

### THEOLOGY III

**031 (Honors)**

**032 (College Prep)**

**033 (Anthony) 1 Credit**  
**Character, Conscience, and Community: An Intro to Christian Ethics**

**Required** In the first 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. In the second 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.

### THEOLOGY IV

**041 (Honors)**

**042 (College Prep)**

**043 (Anthony) 1 Credit**  
**Faith Explorations: History, World Religions, and Vocations**

**Required** The Senior Theology requirement will comprise of three elements. Firstly, students will be exposed to a broad history of the Church from the time of Jesus and the Apostles until the present day. Secondly, students will explore the tenants of the major world religions. Students will be able to compare their understanding of the Catholic faith with other faith traditions. Special attention will be spent on Ecumenical dialogue with persons who hold different beliefs. Thirdly, students will study various 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.

### JUNIOR CATHOLIC

#### LEADERSHIP

**048 (Dual Enroll) 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. Students will explore their own values and how their values affect their ethical choices. Students will explore Christian values surrounding topics such as faith, virtue, sexuality, bioethics, and grief. The course will also explore the Christian view on contemporary social issues such as poverty, immigration, racism, and violence. 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 AP 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.

### SENIOR CATHOLIC

#### LEADERSHIP

**049 (Dual Enroll) 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. Students will explore how faith and human experience intersects across the life cycle. These will include discussions about one's image of God, the sacramental life, love, mercy, death, and vocation. 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 senior religion requirement and all students will receive AP 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.

### HONORS

#### PHILOSOPHICAL ETHICS

**053 (Honors) 1 Credit**

**Elective** Ethics is the study of how human beings ought to live. It is designed to outline various answers to the question of the meaning of life throughout the history of philosophy. Students will not only learn the basic principles of various ethical systems but will be asked to engage critically with these philosophical concepts through real world scenarios and case studies. Teacher recommendation required.

## 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.
- 3) Teachers, Counselors, Department Chairs and Program Coordinators will review student course selections and adjustments may be made.
- 4) A.P. classes can be taken for Dual Enrollment if available.
- 5) Juniors and seniors must take a minimum of six credits.



### 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.....	0.5 credit
Electives.....	4.0 credits
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TOTAL .....	25.5 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 college prep courses designed to be advanced and accelerated, and require above average aptitude and a certain degree of independent reading and study.

**The College Prep 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** are college prep classes 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 world 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.