Course Offerings 2022-2023

Revised: April 12, 2022

Fordham Preparatory School, a Catholic, Jesuit high school founded in 1841, offers a well-balanced college preparatory course of studies to meet the needs and interests of our students, in line with our mission statement:

Our mission is to form leaders committed to faith, scholarship, and service through a college preparatory education in the Catholic Jesuit tradition.

For all students the curriculum provides a full, college preparatory education. Fordham Prep recognizes, however, that some students find appropriate challenges at higher levels. Honors courses are intended to provide that additional challenge within the standard areas of the curriculum. The wider body of electives for upperclassmen includes Advanced Placement courses. With permission from the Assistant Principal for Academics and Student Life, some students may opt to take seven classes after freshman year, allowing more elective opportunities; seniors may opt to take courses at Fordham University with permission from the Assistant Principal.

Students and parents should carefully read the course descriptions which follow. They explain, in brief, the content of the courses and any prerequisites for applying.

## Graduation Requirements

The minimum credits required for graduation are as follows:

| English | 4 |
| :--- | :--- |
| Foreign Language $\dagger$ | 4 |
| Mathematics | 3 |
| Religious Studies | 4 |
| Science | 3 |
| Social Studies | 3 |
| Visual \& Performing Arts | $1^{*}$ |
| Christian Service | 1 |
| Computer Science | $1 / 2$ or $1^{* *}$ |
| Phys Ed/Health | $2^{1 / 1} 4$ |

* In most cases, students do not need permission to take a Visual \& Performing Arts course as a 7th class.
** Computer Science requirement is $1 / 2$ credit for Classes of 2023 and 2024. It is 1 credit for Class of 2025
and later.
$\dagger$ All students take Latin or Ancient Greek in freshman year. Thereafter, a student may continue his classical language or begin a modern language, or add a second language (classical or modern) to his classical language. In all cases, however, students must finish senior year with the equivalent of four credits of a foreign language and complete at least the third level of a language.


## Policy for Honors, Advanced Honors and Advanced Placement Courses

Students interested in taking advanced courses must meet the stated prerequisites. Applicants will be provisionally accepted based on grades through the end of the third quarter, but such acceptance is contingent upon the final grade, which is reviewed by the chairperson at the end of the academic year.

Students will bave an opportunity to be reconsidered during final exam week, if the final grade meets the course prerequisite and department approval, if necessary, and there is room in the class.

## Course Selection and Enrollment: Important Reminders

Students must keep in mind that some courses are limited in enrollment. Some requests may be impossible to schedule depending on a particular slate of chosen courses. It is important for students to consider course interest and selection with regards to their first, second, and (sometimes) third choices. Students should keep open lines of communication with their School Counselors and College Counselors throughout the course selection process.

Some courses may not be offered in the 2022-23 academic year if student interest and registration during the course selection process is low. Classes with fewer than 10 students may be cancelled by the administration and students will be offered a second option. If there are any problems with scheduling, the student will be contacted by the Assistant Principal for Academics and Student Life to resolve the difficulty.

Students must maintain course prerequisites with their final course grade at year end. The administration will move a student down a level (e.g., from AP to honors, or honors to college prep) if he has fallen below the required grade for next year's course.

## Course Change Policy

Students should consider their course choices carefully. Changing courses after the course selection period is discouraged and may only occur under the following guidelines.

Dropping down a level (e.g., from honors to college prep): Requests must be submitted to the Assistant Principal for Academics \& Student Life before the end of the $3^{\text {rd }}$ cycle of the first quarter for upperclassmen, and by the end of the $4^{\text {th }}$ cycle of the first quarter for freshmen.

Changing courses: Requests must be submitted to the Assistant Principal for Academics \& Student Life by the end of the 2nd cycle of the first quarter. Any change of one AP course to another must have the approval of all department chairs.

Dropping a 7th subject: Requests must be submitted by the end of the $6^{\text {th }}$ cycle of the first quarter.
All course changes must be approved by the current teacher, department chair, counselor and Assistant Principal for Academics \& Student Life. Changes are subject to the availability of seats in the desired new course, evaluation of student summer work, etc. Additional schedule changes may be needed in order to place a student in a new course.

Course change request forms can be obtained from the Assistant Principal for Academics and Student Life.

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## Christian Service (Required)

This course meets once per cycle to assist seniors with their seventy-hour Christian service projects which must be completed by April 15th for seniors to qualify for graduation. In addition to helping seniors select appropriate sites from a list of pre-approved agencies and monitoring their progress at these sites, this course provides opportunities for theological reflection on the service experience and introduce general themes in social justice. Faculty are drawn from all departments. A satisfactory or unsatisfactory grade is given each quarter based on a senior's performance at his service site and the quality of his reflections.

| Freshman | Sophomore | Junior | Senior |
| :--- | :--- | :--- | :--- |
| Computer Science <br> Essentials | Computer Science <br> Principles | Cybersecurity <br> Computer Science H <br> Computer Science-A H | Cybersecurity <br> Computer Science H <br> Computer Science-A H |

## Computer Science Essentials (CSC100)

This is a half-credit course required of all freshmen. Through a wide lens on Computer Science, students will learn programming concepts, computational thinking, and develop problem-solving skills and persistence. Along the way, they create computer programs including interactive games and creative projects. Through user-centered design and data, students will be inspired to build their own websites, apps, animations, games, and physical computing systems. This course teaches the foundational concepts of programming using drag and drop blocks rather than a text language such as JavaScript or Python.

## Computer Science Principles (CSC200)

This is a half-credit course required of all sophomores. Building upon skills learned in freshman year, students will learn the fundamentals of coding through a curriculum focused on computational thinking, coding fundamentals, and tools that foster creativity. This course will help students develop programming expertise and invite them to consider advanced Computer Science offerings in junior and senior year.

## Computer Science Honors (CSC300H)

## Prerequisites:

For rising juniors:

- B Pre-Calculus Honors (MAT210H) or B+ in Geometry Honors (MAT200H)

For rising seniors:

> - B+ in Algebra 2/Trig or any passing grade in AP Calculus, Calculus H or PreCalculus H

This course is designed for students who have taken Pre-Calculus Honors or Geometry Honors as sophomores. The course is an introduction to computer science and application writing using the Java programming language. Topics include: computer architecture, data types and controls, classes and object-oriented programming, graphics and applet writing. This course emphasizes object-oriented programming.

## Cybersecurity (CSC310)

## Prerequisites:

For rising juniors:

- B Pre-Calculus Honors (MAT210H) or B+ in Geometry Honors (MAT200H)

For rising seniors:

- B+ in Algebra 2/Trig or any passing grade in AP Calculus, Calculus H or Pre-calculus H

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of
and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyberinfrastructure that moves and processes information safely.

## Computer Science A Honors (CSC320H)

Prerequisites:
For rising juniors:

- Since this is a seventh subject, juniors who take Computer Science A, must also be enrolled in an bonors math course: AP Calculus, Calculus H or Pre-Calculus H.
For rising seniors:
- B in Pre-Calculus, or B- in Pre-calculus Honors, Calculus Honors or AP Calculus.

The Computer Science A Honors course experience, students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science A (AP CSA). This endorsement affirms that all components of PLTW CSA's offerings are aligned to the AP Curriculum Framework standards and the AP CSA assessment.

## English

| Freshman | Sophomore | Junior | Senior |
| :--- | :--- | :--- | :--- |
| English 1 | English 2 | English 3 | English Elective |
| English 1 H | English 2 H <br> English 3 H <br> Eng Adv. H | AP English Language | AP English Literature |

## English 1 (ENG100)

Through a series of activities and projects, the students are introduced to their linguistic imagination. They learn to understand the English language, to control it and to appreciate it. Sequence activities are directed to the short story, novel, poetry, drama, speech, grammar, vocabulary, and paragraph and essay writing.

## English 1 Honors (ENG100H)

## Prerequisites: entrance exam and placement testing.

Designed for the motivated student, English 1 H introduces the student to close reading and critical thinking. We focus on primary texts from a wide variety of genres (Sophocles' Oedipus Rex to Wolfe's The Bonfire of the Vanities, with a number of stops in between). The major works are supplemented with appropriate short stories and poetry. Class discussion and written assignments focus on the structures of narrative, recognition of themes, diction, and figurative language. Students are evaluated on the basis of class preparation and participation, as well as a number of writing assignments designed to assist them in developing arguments.

## English 2 (ENG200)

Building upon the course work from freshman year, students continue to develop their literacy skills with greater emphasis on reading, writing, speaking, and thinking. The writing process is used to aid students in producing research papers, poems, short stories, and essays. Students read one novel per quarter in addition to supplemental texts, e.g., short stories and poems, in order to enhance this themebased curriculum. Students are assessed through the use of objective and subjective tests and quizzes, analytical and creative writing assignments, class discussion, group based projects and presentations. Writers studied may include: Shakespeare, F. Scott Fitzgerald, Tim O’Brien, John Green, Colson Whitehead, Edith Wharton.

## English 2 Honors (ENG200H)

## Prerequisites:

- Students with an A in English 1 and students with a B or bigher in English 1H may enroll
- Students with an A- or B+ in English 1 may seek Department approval by completing a writing sample. Writing sample due to the English Department Page for Course Selection on Schoology by Wednesday, April 6th, 11:59 PM. See the department's Schoology page for details. (Schoology course access code: VZHM-BMD5MPM6V).
English 2 H is designed to challenge sophomores by requiring them to undertake a greater workload than in English 2. This course exposes the student to important novels, plays and poems through the 21 st century. Through class discussion and writing assignments, students answer some of the questions
and issues evoked in the different texts. In this way, they become better thinkers, speakers, readers and writers. Students receive assessments of their efforts through writing assignments (both academic and creative), projects and presentations. Prospective students should be motivated and willing to perform in accordance with even more demanding standards than the English 2 course and be able to think critically and abstractly about literature. Writers studied may include: Shakespeare, Mary Shelley, F. Scott Fitzgerald, Lorraine Hansberry, Tim O’Brien, Jeannette Walls.


## English 2 Advanced Honors (ENG200AH)

## Prerequisites:

- Students with an A- or higher in English 1H may enroll
- Students with an A in English 1 and students with a B or B+ in English 1 H may seek Department approval by completing a writing sample.
- Writing sample due to the English Department Page for Course Selection on Schoology by Wednesday, April 6th, 11:59 PM.
See the department's Schoology page for details (Schoology course access code: VZHM-BMD5-MPM6V).
A concentrated course of study in writing and literature for students with proven ability and determination to undertake a substantial level of work with willingness and consistency. Students are expected to participate in detailed analysis of non-fiction, short story, drama, poetry, essay, memoir and graphic novel. The first half of the course examines timeless issues such as love, death, race, gender and class. The second half of the course focuses on contemporary concerns such as the death of true heroism in literature, the impact of modern warfare and technology, and the rise of post-apocalyptic and dystopian visions in literature and the arts. Writers studied may include: Shakespeare, Tolstoy, Fitzgerald, Steinbeck, Miller, O’Brien, McCarthy, Hurston, and others. This course is designed for students who are extensive readers and equally conscientious about consistent writing and rewriting. Class discussions focus on student initiated research and presentation.


## English 3 (ENG300)

To complete the sequence of the first three years, the students analyze essays, poems, short stories, novels and plays in greater depth than in previous years. They write critical papers, create short stories and poems, and master the term paper. They also analyze English usage in preparation for the SAT.

## English 3 Honors (ENG300H)

## Prerequisites:

- Students with a B or higher in English 2 Adv. H, students with a B+ or higher in English 2H, and students with an $A$ in English 2 may enroll
- Students with a B-in English 2 Adv. H, students with a B in English 2 H, and students with an A- or B+ in English 2 may seek Department approval by completing a writing sample. Writing sample due to the English Department Page for Course Selection on Schoology by Wednesday, April 6th, 11:59 PM. See the department's Schoology page for details (Schoology course access code: VZHM-BMD5-MPM6V).
English 3 H students pursue the core curriculum of the English 3 syllabus in more critical depth and are expected to meet higher expectations in writing, close reading, discussion, and peer review. Writers studied may include: Tennessee Williams, Ken Kesey, Martin Luther King Jr., Valerio Luicelli.


## AP English Language and Composition (ENG350AP)

## Prerequisites:

- Students with a B+ or bigher in English 2 Adv. H and students with an A in English 2H may enroll
- Students with a B in English 2 Adv. H, students with an $A$ - or B+ in English 2 H, and students with an $A$ in English 2 may seek. Department approval by completing a writing sample. Writing sample due to the English Department Page for Course Selection on Schoology by Wednesday, April 6th, 11:59 PM.
See the department's Schoology page for details (Schoology course access code: VZHM-BMD5-MPM6V).
This course is designed to provide English students with the opportunity to engage in college-level work. Strong candidates should possess a facility with language, a sophisticated vocabulary, and the ability to read with impressive speed, comprehension, and insight. Additionally, it is expected that students enrolling in this class have demonstrated a serious and scholarly demeanor, disciplined work habits and a willingness to take risks and contribute positively to class discussion. This course focuses on the development of the critical reading and academic writing skills needed for success in college-level liberal arts courses. Students are required to engage in close reading and careful analysis of selected nonfiction and fiction. Works to be examined include essays, memoirs, and speeches, as well as novels, stories and poems, with an emphasis on literature that reflects American life and experience. Through class discussion, the completion of sample exams and the preparation of weekly essays, students acquire and utilize a common vocabulary for analyzing writing. They gain practice articulating and supporting their own interpretations and perspectives. Students take the AP English Language and Composition exam in the spring semester of their junior year.


## English Electives

## The Graphic Novel (ENG400)

The course engages students in analytical examinations of the graphic novel as a literary art form. Works that students will work with may include: Maus, Watchmen, The Dark Knight, and Alien (1979). The key textbook for the course is Scott McCloud's Understanding Comics. Students learn the mechanics and techniques used to create this unique medium; they understand how the graphic novel achieves balance between word and image to create a whole, unified narrative. Students certainly focus on narrative not only as visual, but also as words and story. Study of deeper themes that complicate plot is essential to understanding the value of these rich works of literature. This course also offers the opportunity to study the science fiction genre through traditional prose works, graphic literature, and film. Students can expect to work in groups and individually to produce their own visual narratives-graphic or film—and written analyses of literary and graphic texts. Frequent written assignments, nightly reading, presentations, and research are a regular part of the course as well.

## Short Story (ENG401)

The course involves the study of the short story as an art form, which has literary merit and entertainment value. In the first three quarters, many short stories are read and analyzed. Students are assessed with written work, quizzes, and projects. Also, during these three quarters, students write their own short story as they practice the Writing Process, either emulating a story they've read or creating a style of their own. By the fourth quarter, students take part in a class-based project.

## Writing for the Media (ENG402)

This course introduces students to the world of media communications through the study of journalism, broadcasting, advertising, and public relations. The instructor includes history of the different areas, guest speakers, and hands-on work in producing a video and/or audio piece. Evaluation consists of quizzes, tests, papers, news stories and radio play, newscast, and television or radio advertisement.

## The Quest Motif in Literature Honors (ENG420H)

Prerequisites:

- Students with a B or higher in AP Lang., students with an A- or higher in English 3H, and students with an A in English 3 may enroll
- Students with a B-in AP Lang., students with a B or B+in English 3H, and students with an A- or B+ in English 3 may seek Department approval by completing a writing sample. Writing sample due to the English Department Page for Course Selection on Schoology by Wednesday, April 6th, 11:59 PM.
See the department's Schoology page for details (Schoology course access code: VZHM-BMD5-MPM6V).
In this college-level course, students examine some of literature's densest, most complex and most beloved works in terms of the archetype of the hero's journey. From world mythology, to the texts of St. Augustine, to the poetry of Tennyson, to the corpus of Tolkien's works, students explore the universality of plot and character, all the while keeping in mind the historical contexts of the pieces, the opposing concepts of stasis and transformation, the relationship between the needs of the individual and the needs of the community as expressed in the texts at hand, and the heroic process of developing a self and becoming a fully human person. Interested students are advised that the amount of reading required for this course is considerable, and that writing projects are assigned cyclically.


## Writing Seminar Honors (ENG410H)

## Prerequisites:

- Students with a B or bigher in AP Lang., students with an A- or bigher in English 3H, and students with an A in English 3 may enroll
- Students with a B-in AP Lang., students with a B or B+in English 3H, and students with an A- or B+in English 3 may seek Department approval by completing a writing sample. Writing sample due to the English Department Page for Course Selection on Schoology by Wednesday, April 6th, 11:59 PM.
See the department's Schoology page for details (Schoology course access code: VZHM-BMD5-MPM6V).
In this college-style course, students are expected to examine, critique, experience, and produce various forms of writing. Emphasis is placed on classroom discussion and a collaborative writing process of drafting, sharing, and revising. Instructor and peer feedback in seminar discussions are integral to the course, so students must be willing to write for-and learn from-an audience of their peers. Each writing seminar course is designed to help students develop the critical skills necessary to succeed in a college classroom, and to develop a written clarity and personal style that will serve them in college and beyond. Students will be able to enroll in the Writing Seminar and will be asked to indicate their preferred pair of semester-length offerings, but specific pairings cannot be guaranteed.


## - Fiction

Students will read contemporary short stories and novel excerpts, analyzing different craft elements like dialogue, voice, setting, and point of view in order to develop techniques to apply to their own works. Students will have the opportunity to share their work with their classmates in workshop-style critiques

- Personal Non-Fiction

Engages students in a comprehensive study of expository writing. Students will read and write narrative, descriptive, process, and compare and contrast essays. Students taking this course should expect to write every day by drawing from personal experiences and will be required to create and share a two-page essay each week.

- Poetry

This course will focus on a study of poetic language, image, and form. Students will read contemporary poetry and will write and share their own original poems, focusing on specific themes and drawing from personal experiences. Additionally, students will work collaboratively to write and analyze poetry. A portfolio of written work will be submitted at the end of the semester for evaluation.

- Story Telling Across Genre

This course offers the study of more nontraditional types of narratives. Students will work collaboratively on larger projects that may include writing and illustrating children's books, composing photo essays, and creating a sitcom script.

## AP English Literature \& Composition (ENG450AP)

Prerequisites:

- Students with a B+ or bigher in AP Lang. and students with an A in English $3 H$ may enroll
- Students with a B in AP Lang., students with an A- or B+ in English 3H, and students with an A in English 3 may seek Department approval by completing a writing sample. Writing sample due to the English Department Page for Course Selection on Schoology by Wednesday, April 6th, 11:59 PM.
See the department's Schoology page for details (Schoology course access code: VZHM-BMD5-MPM6V)
Careful literary analysis of novels, drama, and poetry, and intensive essay writing development, form the basis of what is, in essence, a college-level course. Students in this course should have a more than highlevel facility with language, a refined sensitivity to nuance, a sophisticated vocabulary, the ability and intellectual curiosity to cope week after week with a long and taxing literary work and a love for literature that makes it all worthwhile! All students take the Advanced Placement Examination in May.

Students may satisfy the language requirement by taking four years of a classical language, or by taking one year of a classical language and completing the third level of study in a modern language. Normally this requires four years of study. Students may also satisfy the requirement by reaching the third level of a modern language with fewer than three years of study by applying for advanced standing in a particular language. They may then elect to continue a modern language or to take some other elective to reach the required number of courses in a given year.

| Freshman | Sophomore | Junior | Senior |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Latin } 1 \\ & \text { Greek } 1 \mathrm{H} \end{aligned}$ | Latin 1 <br> (if not previously taken) <br> Greek 1 H <br> (if not previously taken) <br> Latin 2 or 2 H , <br> Greek 2 H <br> and / or <br> Modern Language, <br> Level by placement: <br> 1,2 , or Honors in all languages, <br> AP Spanish Language | Latin 1 <br> (if not previously taken) <br> Greek 1 H <br> (if not previously taken) <br> Latin 3, 3 H, <br> Latin 3 Adv. H, <br> Introduction to Latin <br> Palæography, <br> Greek 3 H, <br> and / or <br> Modern Language, <br> AP Spanish Language, <br> AP Spanish Literature, <br> AP Chinese Language | Latin 1 <br> (if not previously taken) <br> Greek 1 H <br> (if not previously taken) <br> Latin 4, <br> Latin Prose/Poetry, <br> Introduction to Latin <br> Palæography, <br> Greek 4 H, <br> AP Latin, <br> and / or <br> Modern Language, <br> AP Spanish Language, <br> AP Spanish Literature, <br> AP Chinese Language |

## Classical Languages

## Latin 1 (CLA100)

This is a reading-based elementary course with an emphasis on developing reading and translation skills in Latin. In addition to basic vocabulary, grammar, and derivatives, students are exposed to culture, geography, mythology and Roman history.

## Greek 1 Honors (CLA110H)

Prerequisite for sophomores, juniors and seniors:

## - Department recommendation

This is an elementary course with an emphasis on developing reading and translation skills in Ancient Greek. In addition to basic vocabulary, grammar, and derivatives, students are exposed to culture, geography, mythology and Greek history.

## Latin 2 (CLA200)

## Prerequisites:

- CinLatin 1

Permission to take this course may be revoked due to poor performance on the Latin 1 final exam.
This course is a continuation of the reading-based course begun in freshman year. Students complete basic grammar and continue the emphasis on developing reading and translation skills with an
appreciation of culture, geography, mythology, Roman history and derivatives, and read an historical novel in English.

## Latin 2 Honors (CLA200H)

## Prerequisites:

- B+ in Latin 1 AND Department recommendation

Permission to take this course may be revoked due to poor performance on the Latin 1 final exam.
This is an accelerated Latin course designed to continue the Oxford Latin Course for three quarters. The fourth quarter is devoted to reading and translating selections of adapted Latin prose. This course prepares students for advanced honors work in junior year and provides a foundation for AP level work in senior year.

## Greek 2 Honors (CLA210H)

## Prerequisites:

- B in Greek 1 H AND Department recommendation

Permission to take this course may be revoked due to poor performance on the Greek. 1 H final exam.
A continuation of the course begun in freshman year, this course completes the basic grammar of Ancient Greek and continues the emphasis on developing reading and translation skills with an integration of culture, geography, mythology, Greek history and derivatives.

## Latin 3 (CLA300)

## Prerequisites:

- Completion of Latin 2

The course continues building on the foundation of Latin 1 and Latin 2. Advanced grammar is gradually introduced during the year. During the second semester of the course, students make the transition to Latin prose authors and read an historical novel in English. As in the previous two courses, culture, geography, mythology, Roman history and derivatives are integrated into the course.

## Latin 3 Honors (CLA300H)

## Prerequisites:

- B in Latin 2 H AND Department recommendation

Permission to take this course may be revoked due to poor performance on the Latin $2 H$ final exam.
This course introduces students to reading and translating unadapted texts of authentic Latin literature, both prose and poetry. Readings include selections from Eutropius' Breviarium of Roman history and from Vergil's Aeneid; other authors, including Caesar, Livy, Catullus, Ovid, and Martial, may be added at the teacher's discretion according to the class's needs and interests. There is ongoing stress on vocabulary, grammar, and more advanced translation skills, and extensive review of grammar and vocabulary is interspersed throughout the year. The course also offers an overview of the history of the Roman Republic and an introduction to the stylistic analysis of Latin prose and poetry. Students who perform exceptionally well in the course may be considered eligible for AP Latin in the following year.

## Latin 3 Advanced Honors (CLA300AH)

Prerequisites:

- B+ in Latin 2 H AND Department recommendation

Permission to take this course may be revoked due to poor performance on the Latin $2 H$ final exam.
This course is an accelerated introduction to reading, translating, and analyzing unadapted texts of authentic Latin literature, both prose and poetry, with the goal of preparing students for AP work in the following year. Readings in the first semester are taken from Eutropius' Breviarium of Roman history; in the second semester, the course moves on to selections from Caesar's Commentaries on the Gallic War and Vergil's Aeneid taken from the AP syllabus. Other authors may be added at the teacher's discretion according to the class's needs and interests. Extensive review of grammar and vocabulary is interspersed throughout the year; in addition to developing students' skills in translation and reading comprehension, our analysis of the texts will be further aided by the study of rhetorical devices and other figures of speech common in Latin literature, and the scansion of Latin poetry. Students also read a short history of the Roman Republic and the first two books of the Aeneid in translation, with the aim of situating the works of Caesar and Vergil in the historical, political, and literary context in which they were produced.

## Greek 3 Honors (CLA310H)

## Prerequisite:

- Department recommendation

This course introduces students to reading and translating unadapted texts of authentic Greek literature, both prose and poetry. After a review of vocabulary, grammar, and translation skills, the course transitions into translating texts including Homer's Iliad and Xenophon's Anabasis, other authors, including selections from the New Testament, may be added at the teacher's discretion according to the class's needs and interests. Translation is combined with examination and discussion of each work's genre, author, style and place in the history of Greek literature.

## Latin 4 (CLA400)

## Prerequisites:

- Successful completion of Latin 3

Permission to take this course may be revoked due to poor performance on the Latin 3 final exam.
This course introduces students to reading and translating unadapted texts of authentic Latin literature, both prose and poetry. Readings include selections from Eutropius' Breviarium of Roman history and from Vergil's Aeneid; other authors, including Caesar, Livy, Catullus, Ovid, and Martial, may be added at the teacher's discretion according to the class's needs and interests. There is ongoing stress on vocabulary, grammar, and more advanced translation skills, and extensive review of grammar and vocabulary is interspersed throughout the year. The course also offers an overview of the history of the Roman Republic and an introduction to the stylistic analysis of Latin prose and poetry. Students who perform exceptionally well in the course may be considered eligible for AP Latin in the following year.

## Latin Prose and Poetry Honors (CLA401H)

Prerequisite:
Open to students coming from Latin 3 H or Latin 4 and students from Latin 3 Adv H who do NOT advance to AP Latin
Students read prose authors in depth including Cicero, Sallust, and Tacitus, and the poetry of Catullus and Horace. The course highlights the historical and political background necessary for the appreciation of the authors studied. The course provides the opportunity to translate, analyze and discuss the various works assigned. Written essays and some internet research is required.

## Introduction to Latin Palæography (CLA405)

## Prerequisites:

- B in any of the following courses: Latin 3; Latin 3 Honors; Latin 3 Advanced Honors; Greek 3 Honors AND Departmental recommendation
This enrichment course is designed to introduce advanced Classics students to the study of mediæval manuscripts, known as Palæography. During the first three quarters of the course, students will learn about the history of book-making in Western Europe and the development of the different scripts used to write Latin in books (codices) from the Middle Ages. Working from textbook materials and digital reproductions, students will learn how to read and identify mediæval manuscripts using correct palæographic terminology and to produce their own transcriptions of various historical texts. In the fourth quarter, students will have the opportunity to apply these skills to identify and produce a transcription of a heretofore unexamined folio from an authentic handwritten mediæval manuscript.

Beyond class meetings (once per cycle) and fourth-quarter lab time with their folios, students in this course will also have opportunities to attend lectures and hands-on workshops on topics such as manuscript conservation and historical parchment and ink production in cooperation with conservators from Museum of Natural History's Rare Book Department.

This course is open to all students who have completed at least the third-year of a Classical Language, Latin or Greek, with a grade of B or higher; knowledge of Latin is not required. Students should note that this course fulfills one (1) credit of their art requirement but does not count towards their language requirement.

## AP Latin (CLA450AP)

## Prerequisites:

- B+ in Latin 3 Adv. AND Department recommendation
- A in Latin 3 H or Latin 4 AND Department recommendation

Permission to take this course may be revoked based on poor performance on the Latin 3 Adv. final exam.
This is an advanced course in Latin prose and poetry. It continues the studies of Caesar's Gallic War and Vergil's Aeneid begun in Latin 3 Adv., but proceeds at a much faster pace. Latin readings include selections from Books 1, 4, and 5 of Caesar and Books 1, 2, 4 and 6 of Vergil; students will also read selections from both works in English, as required by the AP syllabus, as well as occasional articles from secondary literature and criticism, ancient and modern. Emphasis is on translation, including sight passages, vocabulary and grammar, meter, rhetorical and poetic devices, and the historical context of the

Late Roman Republic. At the end of the academic year, students are required to take the AP Latin examination.

## Greek 4 Honors (CLA410H)

## Prerequisite:

- Department recommendation

This is a survey course of Greek literature featuring selections from Homer's Odyssey and different playwrights. Translation is combined with examination and discussion of each work's genre, author, style and place in the history of Greek literature.

## French 1 H (MLFR100H) Italian 1 (MLIT100) Spanish 1 (MLSP100) Mandarin Chinese 1 H (MLMN100)

## Prerequisites:

- Level 1 of Modern Languages is open to all students.

The beginning level of these courses introduces the phonetics, vocabulary and fundamental grammar of the language. Emphasis is placed on listening, reading, speaking and writing the language. Interactive materials are employed to develop listening comprehension and speaking skills.

## French 2 H (MLFR200H) Italian 2 (MLIT200) Spanish 2 (MLSP200)

Mandarin Chinese 2 H (MLMN200H)

## Prerequisites:

- Level 1 of language or placement examination
- Department cbair recommendation

The second level of modern languages continues with more advanced topics of grammar, reading comprehension, and composition writing. Listening and speaking skills are further developed.

## Italian 2 H (MLIT200H)

## Prerequisites:

- A- in Italian 1 or placement exam
- Department chair recommendation

This course concentrates on advanced grammatical forms and stress writing and reading skills in particular. There is an introduction to Italian literature, as well as cultural study.

## Spanish 2 Honors (MLSP200H)

## Prerequisites:

- A- in Spanish 1 or placement exam
- Department chair recommendation

Advancing sophomore students or transfer students must complete level 1 (Units 1 - 4) of Rosetta Stone prior to the start of the course.

The course focuses on the communicative uses of Spanish through listening, reading, speaking and writing.

## French 3 H (MLFR300H) Italian 3 (MLIT300) Spanish 3 (MLSP300) Mandarin Chinese 3 H (MLMN300H)

## Prerequisites:

- Level 2 or level 2 honors of language or placement examination including interview

The third level stresses the learning of advanced grammatical forms and the development of reading and writing skills. This is done through increased reading of texts in the language and through writing compositions; speaking and listening skills.

Italian 3 Honors (MLIT300H)
Prerequisites:

- A- in Italian 2 or B+ in Italian 2 H
- Department cbair recommendation

This course concentrates on advanced grammatical forms and develop reading through the use of authentic materials such as newspapers, and also works of Italian literature. Emphasis is placed on speaking and writing, as well as cultural study.

## Spanish 3 Honors (MLSP300H)

## Prerequisites:

- A in Spanish 2, A- in Spanish 2 H or placement exam
- Department chair recommendation

Advancing or transfer students must complete levels 1, 2 and 3 of Rosetta Stoneprior to the start of the course. Teacher will provide resources for all prerequisite work.

This course continues the program of study from Spanish 2 H . The course focuses on advanced conversation and the communicative uses of Spanish through listening, speaking, reading and writing.

## AP Spanish Language (MLSP450AP)

## Prerequisites:

- A in Spanish 3, B+ in Spanish 3 Honors, placement exam, or department chair recommendation

Students prepare for the Advanced Placement Spanish Language exam. Students will enhance advanced reading and listening comprehension, and write formal correspondence and persuasive essays. Also, students will develop interpersonal communication skills and cultural enrichment.

## AP Spanish Literature (MLSP451AP)

## Prerequisites:

- B+ in AP Spanish Language
- Department chair recommendation

Students prepare for the Advanced Placement Spanish Literature examination in May. Reading comprehension, development of essays, discussion of literary themes and movements, and specific authors are all emphasized.

## AP Chinese Language \& Culture (MLMN450AP)

## Prerequisites:

- B+ in Mandarin 3 H or placement exam

Students prepare for the Advanced Placement Mandarin Language exam. Students will enhance advanced reading and listening comprehension, and write formal correspondence and persuasive essays. Also, students will develop interpersonal communication skills and cultural enrichment.

## Italian 4 Honors (MLIT400H)

## Prerequisites:

- B+ in Italian 3 or 3 H

This course emphasizes the skills learned in the first three years of Italian, including conversation, advanced grammatical forms, analysis of literature, oral presentations, essay writing and cultural study.

## French 4 Tutorial (MLFR400)

Prerequisites: French $3 H$ or placement exam and department cbair recommendation

Note: incoming freshmen who bave successfully completed Algebra in 8th grade and scored a minimum of $90 \%$ on the Algebra Regents exam may qualify to take Geometry H in 9 th grade.

| Freshman |  | Sophomore | Junior |
| :--- | :--- | :--- | :--- |
| Algebra 1 |  |  |  |
| Geometry H | Geometry <br> Geometry H <br> Pre-Calculus H | Algebra 2/Trig <br> Pre-Calculus H <br> Calculus <br> Calculus H <br> AP Calculus AB | Pre-Calculus <br> Calculus <br> Calculus H <br> AP Calculus AB <br> Calculus 2 Adv H <br> Statistics H <br> AP Statistics |

## Algebra 1 (MAT100)

## Prerequisites: entrance exam and placement testing.

In this course, students study the following topics: Order of Operations, Substitution \& Evaluation of Polynomial Expressions, Operations with Polynomials, Solving Linear Equations and Inequalities, Factoring Polynomials, Solving Quadratic Equations, Simplifying Rational Algebraic Expressions, Solving Fractional Equations, Simplifying Radical Expressions, Coordinate Geometry, Linear Functions, and Solving Systems of Linear Equations.

## Geometry Honors (MAT100H) ( $\mathbf{9}^{\text {th }}$ Grade Only)

## Prerequisites: entrance exam and placement testing.

The course begins with the study of Euclidean Geometry with an emphasis placed upon developing and enhancing students' ability to reason and think logically. Construction of formal proofs using definitions, postulates, theorems, and corollaries are the basis for the development of an axiomatic system.
Emphasis throughout is upon precise use and understanding of terminology, symbols, and the language of geometry. Topics in analytic geometry are also presented. As an honors course, topics are treated with rigorous detail with demanding applications. If a student struggles with this class he may be moved to Algebra.

## Geometry (MAT200)

The course begins with the study of Euclidean Geometry with an emphasis placed upon developing and enhancing students' ability to reason and think logically. Geometric proofs using definitions, postulates, theorems, and corollaries are included for the development of an axiomatic system. Emphasis throughout is upon precise use and understanding of terminology, symbols, and the language of geometry. Geometric applications of algebraic concepts are presented in depth. Topics in analytic geometry are also presented.

## Geometry Honors (MAT200H) (10th Grade)

## Prerequisites:

- A-in Algebra 1 (MAT100)

The course begins with the study of Euclidean Geometry with an emphasis placed upon developing and enhancing students' ability to reason and think logically. Construction of formal proofs using definitions, postulates, theorems and corollaries is the basis for the development of an axiomatic system. Emphasis
throughout is upon precise use and understanding of terminology, symbols, and the language of geometry. Geometric applications of algebraic concepts are presented in depth. As an honors course, topics are treated with rigorous detail with demanding applications. Topics in analytic geometry are also presented.

## Pre-Calculus Honors (MAT210H for $10^{\text {th }}$ grade only)

## Prerequisites:

-Geometry Honors (9th Grade) (MAT100H)
In this course, students study the following topics: Linear Equations and Inequalities, Compound Inequalities, Polynomials and Polynomial Functions, Quadratic Functions and Factoring, Higher Degree Polynomial Equations and Functions, Higher Degree Polynomial Inequalities, Negative Exponents and Radical Functions, Imaginary and Complex Numbers, Exponential and Logarithmic Functions, Trigonometric Ratios and Functions, Trigonometric Graphs, Identities, and Equations and Graphs of Parent Functions.

## Algebra 2/Trigonometry (MAT300)

## Prerequisites:

- Students who took. Algebra 1 as freshmen and Geometry as a sophomore

In this course, students study the following topics: Equations and Inequalities, Linear Equations and Functions, Linear Systems, Quadratic Functions and Factoring, Polynomials and Polynomial Functions, Rational Exponents and Radical Functions, Counting Methods and Probability, Data Analysis and Statistics, Exponential and Logarithmic Functions, Sequences and Series, Trigonometric Ratios and Functions, Trigonometric Graphs, Identities and Equations.

## Pre-Calculus Honors (MAT310H 11 ${ }^{\text {th }}$ grade)

## Prerequisites:

- Geometry Honors as a sophomore (Mat 200H)

This course is designed for those students who have taken Geometry Honors as a $10^{\text {th }}$ graders, In this course, students study the following topics: Linear Equations and Inequalities, Compound Inequalities, Polynomials and Polynomial Functions, Quadratic Functions and Factoring, Higher Degree Polynomial Equations and Functions, Higher Degree Polynomial Inequalities, Negative Exponents and Radical Functions, Imaginary and Complex Numbers, Exponential and Logarithmic Functions, Trigonometric Ratios and Functions, Trigonometric Graphs, Identities, and Equations and Graphs of Parent Functions.

## Pre-Calculus (MAT410 12 ${ }^{\text {th }}$ grade)

## Prerequisites:

- Algebra 2/ Trigonometry

This course is designed for those students who have taken on Algebra 2/Trigonometry as a junior. In this course students will study Exponential and Logarithmic Functions, Counting Methods and Probability, Data Analysis and Statistics, Trigonometry, and Sequences and Series.

## Calculus (MAT320)

## Prerequisites.

- Pre-Calculus H (MAT210H)

This course offers a review of topics covered in Pre-Calculus, a comprehensive introduction to the major topics of the differential and integral calculus, stressing the development of skills used frequently in college math and science courses.

## Calculus Honors (MAT320H 11 ${ }^{\text {th }}$ grade)

## Prerequisites:

- B in Pre-Calculus Honors (MAT210H)

This course offers a comprehensive introduction to the major topics of the differential and integral calculus, stressing the development of skills used frequently in college math and science courses. This course is intended for students interested in continuing a study of calculus in AP Calculus in their senior year.

## AP Calculus AB (MAT350AP 11 ${ }^{\text {th }}$ grade)

## Prerequisites:

- A in Pre-Calculus Honors (MAT210H)
- A- in Pre-Calculus Honors (MAT210H) with current teacher recommendation

This course is for rising juniors and focuses on topics of differential and integral calculus. The second semester is equivalent to the first semester of college calculus. This course is intended for students interested in math and desiring to pursue science, business, engineering or math programs in college.

## Calculus (MAT400 $12^{\text {th }}$ grade)

- A- in Algebra 2/Trig (MAT300)
- Pre-Calculus H (MAT310H)
- Not coming from AP Calculus or Calculus H

This course offers a review of topics covered in Pre-Calculus, a comprehensive introduction to the major topics of the differential and integral calculus, stressing the development of skills used frequently in college math and science courses.

## Calculus Honors (MAT400H 12 ${ }^{\text {th }}$ grade)

## Prerequisites:

- B in Pre-Calculus Honors (MAT310H)

This course offers a comprehensive introduction to the major topics of the differential and integral calculus, stressing the development of skills used frequently in college math and science courses. This course is intended for students interested in continuing a study of calculus in AP Calculus in their senior year.

## AP Calculus AB (MAT450AP $12^{\text {th }}$ grade)

Prerequisites:

- B in Calculus Honors(MAT320H)
- A- in Pre-Calculus Honors (MAT310H) with teacher recommendation

This course is for seniors and focuses on topics of differential and integral calculus. The second semester is equivalent to the first semester of college calculus. This course is intended for students interested in math and desiring to pursue science, business, engineering or math programs in college.

## Calculus 2 Advanced Honors (MAT500AH)

## Prerequisite:

- B in AP Calculus in junior year

This course is intended for seniors who have taken AP Calculus during their junior year and prepares seniors for the AP Calculus BC exam. It is a continuation of the Calculus curriculum covered in junior year. Students continue to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal. They should understand the connections among these representations. Students communicate mathematics both orally and in well-written sentences and are able to explain solutions to problems. They model a written description of a physical situation with a function, a differential equation, or an integral. They also develop an appreciation of calculus as a coherent body of knowledge and as a human accomplishment. Students may take the AP Calculus BC exam.

## Statistics Honors (MAT420H)

## Prerequisites:

- A in Algebra 2/Trig (MAT300)
- B Calculus H (MAT320H) or B Pre-Calculus H(MAT310H)
- B- in AP Calculus (MAT350AP)
- Current teacher recommendation

The Statistics H course is an introduction to the way in which we collect and analyze data. The major topics covered in the course are basic data analysis and graphing, anticipating patterns, experimental design, and probability. The course includes graphing and mathematical analysis, and an introduction to inference with the major focus of the course being experimental design and the validity of statistics.

## AP Statistics (MAT420AP)

Prerequisites:

- A- in Pre-Calculus $H(M A T 310 H)$ with teacher recommendation
- B+ in Calculus H (MAT320H), or have taken AP Calculus in junior year
- B+ in English 3 or B in AP English or English 3 H
- Current teacher recommendation

The AP Statistics course is designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. The five themes addressed throughout the course are: exploring data, sampling and experimentation, probability, anticipating patterns and statistical inference. The course includes mathematical concepts and calculations, statistical projects and experiments and a significant amount of written analysis. The focus of the course is the link between our understanding of trends and our ability to use mathematics to describe them. Since the mathematics can be rigorous and class time is spent on the conceptual understandings, a thorough facility with the concepts of Algebra 2 is necessary.

## Religious Studies

| Freshman | Sophomore | Junior | Senior |
| :---: | :--- | :--- | :--- |
| Religious Studies 1 | Religious Studies 2 | Religious Studies 3 | Religion Elective |

## Religious Studies 1 (REL100)

The first year of the Religious Studies curriculum fosters the search for a greater understanding of what it means to both believe in God and be in relationship with God. As new members of a community of faith, students begin their study examining the life of St. Ignatius, founder of the Jesuits, and exploring central concepts of Ignatian Spirituality. Students proceed to a study of faith and revelation, with Scripture, both Old and New Testaments, serving as the focal text. The course culminates with a deeper understanding of who Jesus is and can be in the life of the believer and member of the Fordham Prep community.

## Religious Studies 2 (REL200)

The sophomore curriculum centers on the Mission of Christ and the Church. In the first semester students explore God's promise of salvation by exploring in depth the passion, death and resurrection of Christ and the implications of the Paschal Mystery for the Christian life. In the second semester, students examine and understand the origin, structure and mission of the Catholic Church and the role the Church plays in the life of the Christian.

## Religious Studies 3 (REL300)

The junior year curriculum is designed to give students a deeper understanding of Catholic identity through an examination of the Sacraments and life as a disciple of Christ. In the first semester students explore sacramental theology and the ways in which the sacramental life strengthens the life of the believer. The second semester is an examination of Christian living through the lens of moral principles and guidelines.

## Religious Studies 4 Electives (One Required)

The senior year curriculum attempts to synthesize the first three years' foundation in Scripture, Christology, Sacraments, Ecclesiology and Morality by focusing on the journey of life in faith. In senior year, the relational aspects of the Christian vocation are studied in three specific areas: the response in love to self (psychology), to others (morality), and to God (spirituality). Each section of Religious Studies 4 views this common core through a particular lens.

## Religious Studies 4 Seminar Honors (REL400H)

Prerequisites:

- B+ in English or B in AP English Lang Comp
- B+ in Religious Studies 3

This course investigates major theological concepts in depth through close study of core theological texts, commentaries and literature. Although the course concentrates on Christian theology and its foremost theologians, it covers important topics in theology as approached by Judaism. Topics covered
in the course include: the psychological need for religion, historical developments in the understanding of the Judeo-Christian God, the development of atheism, attempts to reconcile religious practice in post-modern society and the interplay between theology and philosophy in the development of Western thought. The course depends on close reading of texts as well as discussion, research and frequent essays. Enrollment is limited to 15 .

## Christian Quest for Social Justice (REL401)

The course explores how we might create a more just world from the perspective of Christian faith. Consequently, the Bible and Church teaching are fundamental elements in our analysis. In our quest for justice we also seek a deeper understanding of God, which involves studying God's existence and nature, God's justice versus the problems of evil and suffering, the right way to speak of God, and a number of other issues. Our quest also involves investigating human freedom, conscience development, and living the moral life. Discussion is at the heart of this course: students are required to read, write, think and discuss issues such as economic justice, income inequality, the death penalty, abortion, peace and war, immigration, homosexuality, and a host of other topics. People on our agenda include Dorothy Day, Martin Luther King, Jr. and Mohandas K. Gandhi. The course hosts a number of guest speakers. Each student also is required to perform five of his Christian Service hours at POTS soup kitchen, so that the entire class can analyze the social justice issues involving hunger and homelessness from a common experience. These five hours will count toward the 70 required hours of senior service.

## World Religions (REL405)

This course examines various beliefs and customs of seven major world religions: Christianity, Judaism, Islam, Hinduism, Buddhism, Taoism and Confucianism. Students focus on the notion of God and divinity along with the traditions and beliefs of each religion. The class is conducted as a seminar. Therefore, student participation is crucial to class discussions and developing paper topics. The course analyzes sacred texts, rituals, origins and development of beliefs; it focuses on local cultures, art, personal accounts, reflections by religious leaders, and oral history. Students are able to compare and contrast beliefs while examining the idea of cohesion and conflict within each religion and how various ideas about God and divinity shape religious identities.

## Philosophy of Religion (REL406)

This is a course in the Pbilosophy of Religion. It is not a course in comparative religion, the history of religion, or the psychology of religion. Though these are important questions, we will not be asking what the religious beliefs of some group are, or how they differ from the beliefs of some other group, or what cultural circumstances might have led them to adopt their religious views. Broken up into three sections, we will discuss Transcendentalist Philosophy (are humans inherently good?), Epistemology (how do we form valid opinions and what are some hindrances to this process?), and Ontotheology (the potential tangible realness of God), culminating with the determination of the most important question ever asked by humankind: is God real?

## Theology of Sport (REL407)

This course examines the relationship between sport and theology. Grounded in the theology of play, the course enables students to consider sport through the lenses of prayer, spirituality, education, and praxis. Additionally, students will be encouraged to consider their own journey in sport/leisure and its meaningful place in a life of faith. Particular emphasis will be placed on sport in contemporary Church history and its role in the Catholic Church of the 21st century.

## Men and Masculinity (REL408)

What does it mean to be a man in a Post-Modern Society? In this course, students explore an understanding of what it means to be a man in the positive sense - spiritual, brave, self-restrained, dignified, zealous on behalf of a good cause, imbued with sentiments of delicacy and respect for one's loved ones. Students consider the understanding of maleness from the vantage point of ancient and modern artists, thinkers, historians, poets and statesmen from the classical era to the twentieth century. The course is driven by two fundamental questions: What is a real man like? How does he act and feel? Because fatherhood and manliness have always been closely connected, time is spent addressing fatherhood, not because fathering a child is proof of manhood, but because fathers are supposed to provide their sons with a model of how to live.

## Human Sexuality in the Catholic Tradition (REL409)

Sexuality is the most powerful energy on the planet; an energy with deeply spiritual dimensions - the Song of Songs observes that the fire of sexuality and love burns like a "flame of Yah(weh)". We all must make consequential decisions about sex and relationships; our Catholic tradition offers us much wisdom and guidance in this regard. Our hope and expectation is that by the end of this course students will be able to think and talk about sex and sexuality in an informed, critical, mature manner. They will clarify their own values and will have a basic understanding of Catholic teaching on matters related to sexuality. They will understand how their bodies work and how to take care of themselves. Themes, topics and questions we will cover include values and sexuality, the language of sexuality, what is sexuality, sexuality throughout the lifespan, the biology/psychology/sociology of gender, body image, sexual health (personal and professional care of the sexual system), love and attraction, sexual orientation, healthy and unhealthy relationships, human sexual activity safe sex/contraception/abortion, HIV/AIDS/STIs, Sex in the Bible, Spirituality and Sexuality, Theology of Catholic Marriage.

Note: incoming fresbmen who have successfully completed The Living Environment Regents Biology in 8th grade and scored a minimum of $90 \%$ on the Living Environment Biology Regents exam may qualify to take either Chemistry or Chemistry H in 9th grade. Ifyou scored between $75 \%-89 \%$, you may qualify for Biology H in 9 th grade.

A student may opt to take a second science course as a 7 th subject if his schedule permits in bis sophomore, junior and/ or senior years depending on his overall GPA (3.0 required) and meeting all prerequisite grades for the desired science courses. All students, as a minimum requirement, are reauired to complete Biology, Chemistry, and Physics by graduation.

| Freshman | Sophomore | Junior | Senior |
| :--- | :--- | :--- | :--- |
| Biology | AP Biology | AP Biology | Science Elective: |
| Biology Honors | Chemistry |  |  |
|  | Chemistry H | Chemistry | AP Biology |
|  |  | Chemistry H | AP Chemistry |
|  |  | AP Chemistry | AP Physics 1 |
|  |  | Physics | AP Environmental Science |
|  |  | AP Physics H | Aeronautical Science |
|  |  |  | Biochemistry H |
|  |  |  | Biological Anthropology H |
|  |  | Engineering Science |  |
|  |  | Forensic Science |  |
|  |  |  |  |

## Biology (SCI100)

This is an introductory Biology course covering the following major topics: introductory chemistry, the cell, the scientific method, ecology, classification, cellular and system reproductive functions, nucleic acids, protein synthesis and enzymes, genetics, cellular respiration, photosynthesis, evolution and all major systems of the body. Labs for each topic are included and lab reports are an essential element of the course. Problem-based learning and technological activities are used to reinforce concepts and provide opportunities for substantive learning. Study skills, graphing skills, problem solving and basic statistical methods are explored.

## Biology Honors (SCI100H)

Prerequisites: entrance exam and placement testing. Does not require having taken the living environment course or exam. A course designed for students who show exceptional math and reading skills. The course highlights molecular biology and focuses on such structures as cells and genes, and on processes that occur within them. The unifying themes included in the course are evolution, diversity and unity, genetic continuity, organisms and the environment, structure and function, regulation, science and inquiry, history of biological concepts, and science and society. Laboratory investigations are used to reinforce the students' curiosity about all forms of life. The knowledge of molecular biology enables students to make intelligent and informed decisions about the appropriate uses of technology and scientific knowledge in their future lives as well as prepare them for further advanced scientific study.

## AP Biology (SCI451AP)

Prerequisites:

- B+ in Biology H or B in AP Chem or B in Chem H or an A in Chem or B in AP Physics or a B in Physics Hor an A in Physics* AND
- B in Geometry H (MAT100H and MAT200H) or A in Algebra 1 or B in Pre-calculus H (MAT210H) or A in Geometry or B- in AP Calculus or B- in Calculus H or B- in Calculus or A in Algebra 2/Trig (MAT300).
AP Biology is a rigorous course in Biology and on par with a first year college Biology course. This course provides students with factual knowledge, analytical skills and the concepts necessary for understanding the rapidly changing science of Biology. The textbook used is the one used in a college biology major's course. The laboratory experiments covered are equivalent to those in a biology major's course, including topics such as: mitochondrial sequencing, population genetics, and bacterial transformation. There is mandatory summer reading prior to the start of the course, and a fee of approximately $\$ 120$ to cover the cost of trips to the Dolan DNA Learning Center and related materials. The course prepares the student for the AP Biology exam.


## Chemistry (SCI200)

## Prerequisites:

- Must have taken a Biology course.

Chemistry is designed to meet the needs of a student with an interest and background in science. The objective of the course is to acquaint the student with the fundamental principles of chemistry and to develop an appreciation of the role of chemistry in all other sciences. Lab activities have been designed to increase the understanding of the concepts.

* Incoming freshmen who have successfully completed The Living Environment Regents Biology in 8th grade and scored a minimum of $90 \%$ on the Living Environment Biology Regents exam may qualify to take either Chemistry or Chemistry H in 9th grade.


## Chemistry Honors (SCI200H)

## Prerequisites:

- B- in AP Biology, or B- in Biology H, or B+ in Biology AND
- B- in Geometry H or A in Algebra 1 or A- in Geometry, or B- in Pre-calculus H (MAT210H)

Chemistry H is designed to meet the needs of a student with a great interest and strong background in science. The objective of the course is to acquaint the student with the fundamental principles of chemistry and to develop an appreciation of the role of chemistry in all other sciences. Lab activities are designed to increase the understanding of the concepts. The differences from the regular chemistry course are mainly in the depth and intensity of the treatment of various concepts and a greater amount of independent work is required. Since the honors course has a greater emphasis on the quantitative aspects of chemistry, mathematics is heavily used throughout all of the units.

* Incoming freshmen who have successfully completed The Living Environment Regents Biology in 8th grade and scored a minimum of $90 \%$ on the Living Environment Biology Regents exam may qualify to take either Chemistry or Chemistry H in 9th grade.


## AP Chemistry (SCI452AP)

Prerequisites:

- B+ in Chemistry H or $A$ in Chemistry AND
- B- in Pre-Calculus H or B in Geometry H or A in Geometry or A in Pre-Calculus or A in Alg 2/Trig or BCalculus H or B- AP Calculus.
This course is aimed at students studying the physical science of Inorganic Chemistry. Heavy emphasis is placed on analytical problem solving covering a variety of topics. Areas studied include:
Stoichiometry, Atomic structure, Bonding and Structure of molecules, Kinetics, Chemical Equilibrium, Acid-Base Chemistry, Thermodynamics, Thermochemistry, Nuclear Chemistry, Organic Chemistry and Electrochemistry. Lab activities are tightly correlated to strengthen understanding of concepts and allow students to perform inquiry-based learning. Knowledge of basic chemistry and strong algebra skills are required.


## Physics (SCI300)

## Prerequisites:

- Must have taken a Chemistry course

This course covers the three traditional subject areas of physics: mechanics, electricity and magnetism, and waves. Conceptual understanding and extensive problem solving are stressed. Basic algebra skills are required. Both computer-based and traditional labs are designed to reinforce classroom learning.

## Physics Honors (SCI300H)

## Prerequisites:

- B+ in Chemistry, or B in Chemistry H, or B- in AP Chemistry, or B- in AP Biology AND
- A- in Geometry H or A in Geometry or A in Algebra 2/Trig or A in Pre-calculus or B- in Pre-calculus H or B in Calculus H or B in AP Calculus
This course covers all the topics of the regular physics course. As an honors course, it is more demanding: more reading and assignments, deeper treatment of topics, and more difficult tests and quizzes. This is a good course for students who wish to take AP Physics in senior year.


## AP Physics 1 (SCI450AP)

Prerequisites:

- B in AP Chemistry, or B+ in Chemistry H, or an A in Chemistry, or A- in Physics H, or an A in Pbysics* AND
- B+ in Pre-calculus H (MAT210H 10th) or A in Geometry H (MAT200H) or B+ in AP Calculus or B+ in Calculus $H$ or $A$ in Pre-calculus or $A$ in Algebra 2/Trig.
* Ifyou want to take a Chemistry class concurrently you need a B- in AP Biology. Departmental Chair approval required.

This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It also introduces electric circuits.

## AP Environmental Science (SCI453AP)

Prerequisites:

- B- in AP Chem, or B- in Chem H, or a B+ in Chem, or B- in AP Physics or B- in Pbysics H, or a B+ in Pbysics
- Seniors only

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Field work, experimental design, and problem solving skills are heavily stressed in this course. The greenhouse will be utilized for labs as well as long-term projects - such as the designing, construction, and maintenance of "Ecobottles." Students will be required to spend a minimum of $25 \%$ of instructional time engaged in hands-on, inquiry based laboratory and/or field work investigations. An emphasis will also be placed on environmental justice and "care of our Common Home" in accordance with Catholic Jesuit ideals and teaching. Students are required to take the AP examination at the completion of the course.

## Aeronautical Science (SCI402)

## Prerequisites:

- C+ in Pbysics or C in Pbysics H or C in AP Pbysics AND
- B- in Algebra 2/Trig or Pre-Calculus or Pre-calculus H (Mat 310H 11th) or Calculus H or AP Calculus
- Seniors only

The Aeronautical Science course seeks to teach students about the history, science, mathematics and wonder of controlled flight. The course allows students to simulate the operation of various singleengine and multi-engine aircraft. This is a unique opportunity to learn the essentials of flight operations on the ground and in the air. In addition, the course will reinforce topics found within the disciplines of science, technology, engineering, arts, and mathematics (STEAM). The course will incorporate the use of Edustation (educational flight simulator). Students must have completed a course in Physics prior to applying for this course.

## Biochemistry Honors (SCI410H)

## Prerequisites:

- B+ in Pbysics or B in Physics $H$ or $C+$ in AP Pbysics OR
$B+$ in Chemistry or $B$ in Chemistry $H$ or $C+$ in AP Chemistry
- Seniors only

The study of biochemistry deals with the examination of biomolecules and chemical reactions that are present in living organisms. This course includes the investigation of the structure and function of Amino Acids, Lipids, Nucleic Acids, and Carbohydrates. Major concepts include: the science of biomolecules, energy yielding processes, molecular basis of genetics, transfer of genetic information, recombinant DNA and genetic engineering, immunology, microbiology, pharmacology and bioethics. Required works: Lab work that parallels the lecture topics, formal scientific lab reports, journal review
papers and a book review. This course is geared toward those students interested in pre-med or scientific research (e.g., biochemistry, biomedical, genetic engineering). This course may be taken concurrently with Physics.

## Biological Anthropology Honors (SCI403H)

Prerequisites:

- B in Biology or B- in Biology H or B- in AP Biology AND
- C-in Pbysics or C- in Pbysics H or C- in AP Pbysics
- Seniors only

This is a college lecture and discussion course, and surveys the history of evolutionary thought, the biological mechanisms that allow for evolutionary change, our living primate relatives, and the fossil record that shapes our understanding of modern human evolution. Throughout the course, students are introduced to the many different tools and methods used by scientists to understand the origins of our species. Students consider outside scholarly articles, take part in discussion forums, work collaboratively on group projects and presentations, and write a quarterly paper. This course may be taken concurrently with Pbysics.

## Engineering Science (SCI400)

## Prerequisite:

- B in Physics or B- in Pbysics Honors or a C- in AP Physics* AND
- B- in AP Calculus, Calculus H, Pre-Calculus H or B in Pre-Calculus or B in Algebra 2/Trig.
* If taken concurrently with a Pbysics class a B in Chemistry or B- in Chemistry H or C- in AP Chemistry, Departmental Chair approval required.

Engineering Science is a course that continues the study of physics and mathematics with regards to specific college level applications in mechanics and electromagnetism. Activities include extensive computer design work of buildings, bridges, mechanics applications, and electronic circuits. Topics also include introductions to logic, microcontroller programming, and artificial intelligence. Each topic is covered with real world laboratories, computer aided design, and written descriptions. Students are expected to demonstrate theoretical understanding, as well as perform extensive lab work. This course may be taken concurrently with Pbysics.

## Forensic Science (SCI401)

## Prerequisite:

- Three years of science (Seniors only)

This course focuses on the recognition, collection, preservation, and analysis of the various types of physical evidence typically encountered at crime scenes. Students will be presented with the theories and principles relating to the primary techniques utilized in the analysis of physical evidence. Case studies and crime scenarios will help students understand the implications and complicated issues that are emerging as the science of forensics continues to develop. The course encourages critical thinking, use of the scientific method, integration of technology, and application of knowledge and skills learned in previous science courses. Topics include criminal law, crime scene processing, fingerprints, forensic engineering, criminal profiling, hair and fiber analysis, serology and bloodstain pattern analysis, ballistics, DNA evidence, handwriting and document analysis, odontology, and entomology. This course may be taken concurrently with Physics.

| Freshman | Sophomore | Junior | Senior |
| :---: | :---: | :---: | :---: |
| Global 1 <br> Global 1 H | Global 2 <br> Global 2 H <br> AP European History <br> AP World History | U.S. History U.S. History H AP US History | Social Studies Elective: <br> AP European History <br> AP World History <br> AP Macroeconomics <br> AP U.S. Gov't \& Politics <br> AP Psychology <br> America Since 1945 H <br>  <br> Finance Honors <br> Pre-Law/Great Constitutional <br> Issues |

Note: Students are required to take one of the available courses in their freshman, sophomore, and junior years.
Student must take U.S. History in order to graduate.

## Global Studies 1 (SOC100)

The scope of the course includes world history from the dawn of man through the Middle Ages, emphasizing political, intellectual, social, and cultural developments, and their interrelationships. Methods of evaluation include quizzes, exams, projects, research papers and summer assignments.

## Global Studies 1 Honors (SOC100H)

## Prerequisites: entrance exam and placement testing.

This course is designed as an introduction to world history from the eve of the Neolithic Period through the Post Classical Period. The curriculum seeks to provide a balanced examination of the major societies in each region of the world during that time frame. The course introduces students to essential skills for the historian, in particular, analyzing cause and effect, understanding the themes of periodization and the patterns and changes they reveal, interpreting documents and conducting a point of view analysis on sources, and expressing continuity and change and similarity and difference. Proficiency at these skills are assessed through written homework and quarterly essays as well as factual, conceptual, and stimulus based multiple choice questions. A summer reading assignment applies as a prerequisite to the course.

## Global Studies 2 (SOC200)

The scope of the course includes European history and world history from the Renaissance to modern times, emphasizing political, intellectual, economic, social and cultural developments and their interrelationships. Methods of evaluation include quizzes, exams, projects, research papers, book reports and summer assignments.

## Global Studies 2 Honors (SOC200H)

## Prerequisites:

- B+ in Global Studies 1 or B- in Global Studies 1 H
- Department recommendation

This course covers the period of time from 1450 to the present, emphasizing the political, economic, social and cultural developments. The study of world history in a broad and comparative context seeks to trace relationships across place and time. In addition, the honors class is expected to complete additional readings of an independent nature, including The Prince and All Quiet on the Western Front.

Students are expected to read and analyze a variety of excerpted primary sources. Methods of evaluation include quizzes, exams, essays, as well as class discussions and summer reading assignments.

## AP European History (SOC250AP)

Sophomore Prerequisites:

- A- in Global Studies 1 or B in Global Studies 1 H
- Department recommendation

Senior Prerequisites:

- A in U.S. History, B+ in U.S. History H, or C+ in AP U.S. History
- Department recommendation

This course covers, in depth, the major political, economic, social, intellectual and artistic forces that have shaped Europe since the Renaissance. The students and the instructor debate the major issues from different political perspectives. The course also prepares students for the Advanced Placement Examination in May. Considerable preliminary work must be done during the summer in preparation for the course.

## AP World History: Modern (SOC255AP)

Sophomore Prerequisites:

- A- in Global Studies 1 or B in Global Studies 1 H
- Department recommendation

Senior Prerequisites:

- A in U.S. History, B+ in U.S. History H, or C+ in AP U.S. History
- Department recommendation

This course focuses on the interaction between different societies and the evolution of global processes since 8000 BCE . The curriculum is organized around themes and deals with periods of change and their global implications. The course offers a balanced coverage of Africa, the Americas, Asia and Europe, and prepares students for the Advanced Placement Examination in May.

## U.S. History (SOC300)

This course is designed to be a survey of the political, economic and social development of the United States from the Age of Discovery of America to the present time. Methods of evaluations include quizzes, exams, analysis of primary source materials, projects, research paper and summer assignments.

## U.S. History Honors (SOC300H)

## Prerequisites:

- B+ in Global Studies 2 or B- in Global Studies 2 H or C- in a sophomore AP course
- Department recommendation

This course is designed to be a survey of the political, economic and social development of the United States from the Age of Discovery of America to the present time. Greater emphasis is placed on the analytical nature of historical events. In addition students are expected to read a wide variety of excerpted primary and secondary source materials during the school year. Methods of evaluation include quizzes, exams, essays as well as class discussions, in-class debates and summer reading assignments. Students may be required to attend extra classes before and/or after school on occasion.

## AP U.S. History (SOC350AP)

Prerequisites:

- A in Global Studies 2 or B+ in Global Studies 2 H or B- in AP World History or AP European History
- Department recommendation

The course is designed to be a survey of U.S. History to prepare students for the Advanced Placement Examination in U.S. History in May. Considerable preliminary work must be completed during the previous summer. Methods of evaluation include quizzes, exams, free response and document based essays and class discussion. Students are required, on occasion, to attend extra classes before and/or after school when deemed necessary.

## Pre-Law/Great Constitutional Issues (SOC401)

An examination of important issues in American History that revolved around the interpretation of The Constitution. Topics include:

1. The expansion of the Bill of Rights: How did the first 10 amendments to the Constitution become the cornerstone for the protection of our civil liberties?
2. The Interstate Commerce Clause: How has this power of Congress in Article 1 of the Constitution expanded the power of the national government to an unprecedented degree?
3. The 14th Amendment: How has this Civil War Amendment been used to protect both the rights of corporations and the civil rights of individuals?
4. The growth of presidential power: Would Washington or Jefferson recognize and approve of the expansion of presidential power under George W. Bush or Barack Obama?

## America Since 1945 Honors (SOC410H)

## Prerequisites:

- B- in U.S. History, C in AP U.S. History or U.S. History H

This course will explore topics in US History starting with the ideological origins and consequences of the Cold War continuing through the war on terrorism. We will also analyze the social and economic impact of foreign policy on our domestic politics as well, especially as it relates to civil rights and civil liberties. We will be focusing on the challenges stemming from the Arab/Israeli conflict, 9/11, Arab Spring, radical Islam and ISIS. Assessments will include quizzes, exams, research and reaction papers, presentations and class discussions.

## Government, Economics \& Finance Honors (SOC412H)

## Prerequisites:

- B- in U.S. History or C in U.S. History Honors or C- in AP U.S. History
- Department recommendation

This brand new course offers students the opportunity to study civics and economics over the course of a full academic year. The government and civics portion of the course aims to provide students with opportunities to become engaged in the political process by acquiring the knowledge and practicing the skills necessary for active citizenship. Students will be engaged in activities designed to facilitate learning about principles of American democracy, civil rights, civil liberties, political participation, and public policy.

The second portion of this course examines the principles of the United States free market economy in a global context. Students will analyze the role of supply and demand in determining the prices individuals and businesses face in the product and factor markets, and the global nature of these markets. Students will study changes to the workforce in the United States, and the role of entrepreneurs in our economy, as well as the effects of globalization. Students will explore the challenges facing the United States free market economy in a global environment and various policy-making opportunities available to government to address these challenges. Elements of both macro- and micro-economics will be covered throughout this portion of the course.

## AP U.S. Government and Politics (SOC450AP)

Prerequisites:

- A passing grade in U.S. History, U.S. History H or AP U.S. History

The course introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes through which students learn to apply disciplinary reasoning assess causes and consequences of political events, and interpret data to develop evidence-based arguments. In addition to this, the course includes a brief introduction to Comparative Politics that introduces students to the rich diversity of political life outside the United States. Students are required to take the AP U.S. Government \& Politics exam.

## AP Macroeconomics (SOC451AP)

## Prerequisites:

- B in U.S. History or B- in U.S. History H or C in AP U.S. History
- B-in Math
- Department recommendation

This course is an intensive course that gives students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course also prepares students for the AP exam in May. The course places particular emphasis on the study of national income and price determination, and also develops students' familiarity with economic performance measures, economic growth and international economics.

## AP Psychology (SOC455AP)

Prerequisites for seniors

- A- in U.S. History or B+ in U.S. History H or B- in AP U.S. History
- Department recommendation

AP Psychology introduces students to the systematic and scientific study of human behavior and mental processes through a general survey of cognitive, developmental, personality, abnormal, and social psychology, as well as behavioral neuroscience. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as: environmental and genetic influences of human development and behavior, sensation and perception, learning and cognition, motivation and emotion, as well as psychological, personality and behavioral disorders. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas

## Visual and Performing Arts

| Freshman | Sophomore | Junior | Senior |
| :---: | :---: | :---: | :---: |
| Band Methods Jazz Ensemble Vocal Music/Choir Orchestra Liturgical Choir Instrumental Ensemble Theater Arts: Acting | AP Music Theory <br> Fundamentals of Acting <br> Fundamentals of Music <br> Jazz Ensemble <br> Studio Art 1 <br> Vocal Music/Choir <br> Orchestra <br> Liturgical Choir <br> Instrumental Ensemble <br> Theater Arts: Acting |  <br> Web Design <br> Fundamentals of Acting <br> Fundamentals of Music <br> Jazz Ensemble <br> Jazz Ensemble H <br> Studio Art 1 <br> Studio Art 2 <br> Vocal Music/Choir <br> Orchestra <br> Liturgical Choir <br> Instrumental Ensemble <br> Theater Arts: Acting | AP 2D Art \& Design <br> AP Drawing <br> AP Art History <br> AP Music Theory <br> Architectural Drawing <br>  <br> Web Design <br> Fundamentals of Acting <br> Fundamentals of Music <br> Jazz Ensemble <br> Jazz Ensemble H <br> Studio Art 1 <br> Studio Art 2 <br> Vocal Music/Choir <br> Orchestra <br> Liturgical Choir <br> Instrumental Ensemble <br> Theater Arts: Acting |

$\dagger$ Fine Arts Elective may be taken as an optional 7th subject in sophomore, junior or senior year.

## Art History Classes:

## AP Art History (VPA450AP)

Prerequisites:

- A-in English 2 or 3,
- B+ in English 2H or $3 H$ or
- B in English 2 Adv H or AP English Language

AND

- A- in Global 2 or US History,
- B+ in Global 2H or US History H
- B in AP W orld History or AP Euro or AP US History

Using the new AP curriculum, students learn to look at art works critically and to analyze what they see, examining major forms of artistic expression from the past and the present from a variety of cultures. They gain an understanding and knowledge of architecture, sculpture, painting and other art forms. This class is for students who have a desire to learn how artistic creations are expressions of culture.
Limited to 18 students.

## Visual Arts Classes:

## Studio Art 1 (VPA200)

This is a hands-on class that introduces students to drawing concepts through the use of a variety of art mediums. Students study different artists and their works by working on individual and group projects. Projects range from still life set-ups, landscapes, figure drawing to optical illusions and perspectives.

This class does not require any prior knowledge of the arts. It is for students interested in learning and getting training in art.

## Studio Art 2 (VPA300)

## Prerequisite:

- Studio Art 1
- Department chair approval

For students who would like to continue to develop their painting and drawing skills.

## AP 2D Art \& Design (VPA400AP)

## Prerequisite:

Studio Art 1 and Studio Art 2
Department chair recommendation
This course is designed for students who wish to submit a portfolio of art work to the College Board for evaluation and possible college credit. Based on the nature of the student's work, and in consultation with the instructor, the student will continue to develop his portfolio toward meeting the criteria of AP 2-D Art \& Design. A 2-D Art \& Design portfolio should focus on the application of design elements and principles. The student must complete an online portfolio for submission, as well as submit a limited number of actual works. The actual works will be returned to the student by the College Board.

## AP Drawing (VPA401AP)

## Prerequisite:

- Studio Art 1 and Studio Art 2
- AP 2D Art \& Design
- Department cbair recommendation

This course is designed for students who wish to submit a portfolio of art work to the College Board for evaluation and possible college credit. Based on the nature of the student's work, and in consultation with the instructor, the student will continue to develop his portfolio toward meeting the criteria of AP Drawing. A Drawing portfolio should focus on mark making, line quality, and surface manipulation. The student must complete an online portfolio for submission, as well as submit a limited number of actual works. The actual works will be returned to the student by the College Board.

## Computer Graphics and Web Design (VPA330)

This course is organized to incorporate the Elements of Art (line, shape, form, space, color/value and texture) as well as the Principles of Design (Proportion, Valance, Unity, Variety, Rhythm, Emphasis and Harmony). This course covers the traditional areas of professional graphics and web design. Computer programs such as Adobe Photoshop and Adobe illustrator are used to complete these projects.

## Architectural Drawing (VPA340)

This class heightens student's awareness of how our environment affects our everyday lives. Students will learn to produce mechanical drawings, such as floor plans and elevations by taking measurements from their own homes and reverse engineering them into plans. Students will also learn methods for perspective drawing and sketching techniques as they will design a two-story structure to be drawn up in plan, and rendered in a three-dimensional foam core model. Students will additionally be exposed to famous buildings and architects and realize that potential career opportunities in the field. Students will be graded on all of their drawings and models.

## Music Classes:

## Vocal Music/Choir (VPA212)

In this 1-credit course, students are taught 4-part (T.T.B.B.) male choral repertoire and mixed-voice (S.A.T.B.) choral repertoire dating back several centuries. From early chant to Bach (17th century) to present day popular music, students are exposed to a variety of musical and singing styles in preparation for Christmas and spring concert performances at two nearby all-girl Catholic high schools. This combined Multi-Choir also performs at Fordham Prep and on the Fordham University Campus. These various events may sometimes qualify for service hours. Participation in the Fordham Prep school liturgies is also encouraged. Students also learn basic music theory and valuable sight-singing skills. Once or twice in the year, a seasoned professional singer comes to the class for vocal coaching and other reallife experience exchanges. This is a performance course and is open to students of all years.

## Liturgical Choir (VPA120)

Liturgical Choir is a $1 / 2$ credit performance course open to all years. Students are exposed to a variety of musical and singing styles in order to assist a cantor in the leading of congregational singing for school masses and special weekend liturgies. Liturgical Choir typically sings in two parts, tenor and bass, along with a four-part male ensemble. Classes are held on most E-Day Activities periods beginning in late- September through Ascension Thursday.

## Band Methods (VPA100)

Prerequisite: know how to play an instrument
This freshman only course is designed to introduce students to concepts in instrumental music which include sight reading, performance approach, technique, and posture. Students are given an option to study either trumpet, saxophone, trombone, clarinet or flute. Each student is expected to rent and oversee the maintenance of their instrument. Students can elect to learn a rhythm instrument (guitar, bass, drums or piano) in the second semester pending instructor approval. This year long course is 1 credit. Students who wish to continue their instrumental music study can elect to join the Jazz Ensemble in the following year.

## Orchestra (VPA110)

## Prerequisite: know how to play an instrument

This ensemble is designed to develop young musicians through the use of standard classical music material. Students who play string instruments (violin, Viola, cello, bass) as well as piano and select woodwinds (clarinet, flute, oboe) are invited to rehearse and perform a program of standard literature. During the second semester, instrumentalists will play student written work and provide feedback for
students completing a requirement in Music Composition. All students are required to perform at the MYSSMA Solo/Ensemble festival.

## Jazz Ensemble (VPA203)

Prerequisite: know how to play an instrument
This course is designed for students looking to further their instrumental knowledge. In Jazz Ensemble, the students learn and apply concepts of blues, modal, swing and modern jazz styles. All students are asked to perform throughout the school year. Intermediate and advanced students are asked to perform at the NYSSMA Solo and Ensemble Festival in June.

## Jazz Ensemble Honors (VPA203H)

## Prerequisites:

- one year as a member of the Jarz Ensemble
- department chair approval through audition

Students are required to design, plan and perform at a recital at the end of the academic year. Refer above to Jazz Ensemble (\#7135) for course description.

## Fundamentals of Music (VPA510)

This course is designed to provide an introduction to the fundamental skills of reading, writing, and analyzing music. Student goals and achievements from successfully completing this course will include a basic understanding and ease in performing rhythmic \& melodic exercises as well as practical knowledge of the musical language of key signatures, intervals, triads and fluency of music dictation. This course will also serve as an introduction to further studies in music theory, music history and performance. Students will learn concepts in theory through an introduction to compositions from the six major western music eras (Medieval, Renaissance, Baroque, Classical, Romantic, Modern) as well as studies in Jazz and Cultural music. This course is both lecture \& laboratory based. Students will be given written as well as performance based exams. Students will also study the piano through each semester. This piano study will culminate in a piano recital given in class during the $4^{\text {th }}$ quarter.

## Instrumental Ensemble (VPA101)

Prerequisite: know how to play an instrument
This $1 / 2$ credit after-school course encompasses all after-school instrumental offerings. Ensemble options very year-to-year based on instrumentation and availability.

## AP Music Theory (VPA455AP)

Prerequisite: While there are no formal prerequisites, students who enroll in this course must be able to demonstrate basic competency on at least one instrument or voice and must demonstrate familiarity with written notation. It is suggested that beginner students not meeting the criteria above take Fundamentals of Music before enrolling in this course. This course is intended to enhance student's practical knowledge in concepts of music theory as well as the continued development of sight singing and ear training skills. Students who partake in this course should have a background in music (performance or theory based) that allows for success in completing this advanced curriculum. By completing this course, students will be able to respond analytically to aural or visual music while connecting learned material and better creative awareness.

## Theater Arts Classes:

## Theater Arts: Acting (VPA500)

Students can earn $1 / 2$ credit per play for participating in an acting role in the drama society productions. No acting experience is necessary.

## Fundamentals of Acting (VPA505)

This course focuses on introducing and developing the basic acting techniques of characterization, role analysis, stage movement, voice, and body control. Students will engage in activities ranging from improvisational games, vocal exercises, character analysis/development and scene work. Students will be evaluated through a variety of written and performance-based assessments. Active participation is an essential component to succeed in this course with an emphasis on creativity, collaboration, and play.

## Other Electives

## University Courses (\#UNIV)

## Prerequisites:

- B average in junior year
- Approval of the Assistant Principal for Academics and Student Life.

Seniors may take one course each semester at Fordham University. If the University course is a $6^{\text {th }}$ subject, a student must take a class in both semesters. There is no additional tuition. Offerings vary. Consult the course bulletin in the office of the Assistant Principal for Academics and Student Life.

Course Options by Year

| Freshman | English 1 <br> English 1H | Religious Studies 1 | Algebra 1 Geometry H | Latin 1 <br> Greek 1H | Global 1 <br> Global 1Honors | Biology <br> Biology 1H |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Computer Science Essentials | Health/PE <br> Strength \& Fitness | Band Methods Jazz Ensemble Orchestra Vocal Music |  |  |  |
| Sophomore | English 2 <br> English 2H <br> English 2 Adv. H | Religious Studies 2 | Geometry <br> Geometry H <br> Pre-calculus H | Latin 1 (if not previously taken) Greek 1 H (if not previously taken) Latin 2 or 2 H Greek 2H and / or Modern Language (Level by placement: 1, 2, or Honors in all languages, AP Spanish Language) | Global 2 <br> Global 2 Honors <br> AP European History AP World History | AP Biology Chemistry Chemistry H |
|  | Computer Science <br> Principles <br> *VP Arts Elective | PE |  |  |  |  |
| Junior | English 3 <br> English 3H <br> AP English Lang | Religious Studies 3 | Algebra 2/Trig <br> Pre-calculus H <br> Calculus <br> Calculus H <br> AP Calculus AB <br> Computer Science H <br> Computing Principles | Latin 1 (if not previously taken) Greek 1 H (if not previously taken) Latin 3, 3H <br> Latin 3 Adv H <br> Introduction to Latin <br> Palæography, <br> Greek 3H <br> and / or <br> Modern Language <br> (AP Spanish Lang., <br> AP Spanish Lit.) | US History US History Honors AP US History | AP Biology Chemistry Chemistry H AP Chemistry Physics Physics H AP Physics 1 |
|  | *VP Arts Elective | PE |  |  |  |  |
| Senior | English Elective or AP English Lit | Religion Elective | Calculus <br> Calculus H <br> AP Calculus AB <br> Calculus 2 Adv H <br> Pre-Calculus <br> Statistics H <br> AP Statistics <br> Computer Science H <br> Computing Principles | Latin 1 (if not previously taken) Greek 1 H (if not previously taken) Latin 4 <br> Latin Prose/Poetry Introduction to Latin Palæography Greek 4H AP Latin and / or Modern Language (AP Spanish Lang. or AP Spanish Lit.) | Social Studies <br> Elective: <br> AP European History AP World History AP Macroeconomics AP U.S. Gov’t \& Politics AP Psychology America Since 1945 <br> Honors <br> Government, Economics, <br> \& Finance Honors <br> Pre-Law/Great <br> Constitutional Issues | Science Elective: <br> AP Biology <br> AP Chemistry <br> AP Environ. Science <br> AP Physics 1 <br> Aeronautical Science <br> Biochemistry H <br> Biological Anthropology H <br> Engineering Science <br> Forensic Science |
|  | *VP Arts Elective | PE |  |  |  |  |

* Visual and Performing Arts Elective may be taken as an optional 7th subject in sophomore, junior or senior year.


