



FORDHAM PREP

Jesuit Education is Faith, Scholarship & Service

Course Offerings

2019-2020

Revised: 3/13/2019

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:

As a Catholic, all-male, Jesuit, college preparatory school, Fordham Prep’s mission is to inspire young men to reflect, to question, to learn, to pray, to love, to serve and to lead. Since 1841, we have based our challenging curriculum and pursuit of human and academic excellence on a foundation of Catholic faith and principles. We seek to be one community created from a broad spectrum of ethnic, racial, geographic and socioeconomic backgrounds. We strive to include qualified students of limited financial resources by providing substantial financial assistance. Our faculty and staff dedicate themselves to a caring and dynamic interaction with students both inside and outside the classroom, a characteristic of Jesuit education for over 450 years. We educate our students to be men for others: spiritually motivated, intellectually accomplished and committed to promoting justice.

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 †	4
Mathematics	3
Religious Studies	4
Science	3
Social Studies	3
Visual & Performing Arts	1*
Christian Service	1
Intro to Computers	½
Phys Ed/Health	2

* In most cases, students do not need permission to take a Visual & Performing Arts course as a 7th class.

† 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 years 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 more 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 have an opportunity to be reconsidered between May 31st and June 5th 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 2019-20 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 3rd cycle of the first quarter for upperclassmen, and by the end of the 6th cycle of the first quarter for freshmen.

Changing courses (e.g., changing to a different elective course): Requests must be submitted to the Assistant Principal for Academics & Student Life by the end of the 3rd cycle of the first quarter.

Dropping a 7th subject: Requests must be submitted by the end of the 6th cycle of the first quarter.

All course changes must be approved by the current teacher, department chair and Assistant Principal for Academics & Student Life. Changes are subject to the availability of seats in the desired new course. 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 & Student Life.

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Christian Service

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.

English

Freshman	Sophomore	Junior	Senior
English 1 English 1 H	English 2 English 2 H English 2 Adv. H	English 3 English 3 H AP English Language	English Elective <i>or</i> AP English Literature

English 1 (#1010)

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 intensive paragraph and essay writing.

English 1 Honors (#1015)

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 (timed and untimed) designed to assist them in developing arguments.

English 2 (#1020)

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 theme-based 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.

English 2 Honors (#1022)

Prerequisites:

- *Students with an A in English 1 and students with a B or higher in English 1H may enroll*
- *Students with an A- or B+ in English 1 may seek Department approval by completing a writing sample. See Department Chairperson or current teacher for more information.*

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 21st 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.

English 2 Advanced Honors (#1025)

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 1H may seek Department approval by completing a writing sample. See Department Chairperson or current teacher for more information.*

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 (#1030)

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 (#1040)

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. See Department Chairperson or current teacher for more information.*

English 3 H students pursue the core curriculum of the English 3 syllabus in more critical depth as well as meeting these additional requirements: quizzes, more reading assignments, longer and more frequent essays.

Advanced Placement English Language and Composition (#1422)

Prerequisites:

- *Students with a B+ or higher 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. See Department Chairperson or current teacher for more information.*

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 non-fiction 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 (#1498)

The course engages students in a survey of literature that examines the history of story through its various narrative forms, with particular focus on the culmination of these forms into the current evolution of visual literacy. The course traces the themes and roots of many popular story arcs back to a rich tradition threaded with classic art, myth, collective history and memoir. Students then study the most current inception of literature inspired by visual narrative: the graphic novel. Students engage in a rigorous examination of this medium from its inception to its current incarnation as an established staple of both popular culture and Pulitzer Prize caliber creations. Works that students deconstruct may include: *Maus*, *Watchmen*, *A.D.: New Orleans after the Deluge*, *Dark Knight Returns*, and *V for Vendetta*. 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. Furthermore, students look to the future of visual literacy; the course addresses screen adaptations of story, web-based narrative, and the value of image as self-sustaining story in the digital world. During the course, students can expect to work in teams to produce their own visual narratives – graphic or film. Frequent written assignments, nightly reading, presentations and rigorous research are a regular part of the course as well.

Short Story (#1450)

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 have an option to choose their learning experience. They may leave the class to do an internship, or stay and take part in a class based project. Either option poses significant learning opportunities in an authentic setting.

Writing for the Media (#1465)

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 (#1497)

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. See Department Chairperson or current teacher for more information.*

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 (#1425)

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. See Department Chairperson or current teacher for more information.*

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.

Advanced Placement English Literature & Composition (#1400)

Prerequisites:

- *Students with a B+ or higher in AP Lang. and students with an A in English 3H 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. See Department Chairperson or current teacher for more information.*

Painstaking 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 high-level 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.

Foreign Language: Classical and Modern Languages

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
Latin 1 <i>or</i> Greek 1 H	Latin 2 or 2 H, Greek 2 H <i>or</i> Modern Language, Level by placement: 1, 2, or Honors in all languages, AP Spanish Language	Latin 3, 3 H, Latin 3 Adv. H, Greek 3 H, <i>or</i> Modern Language, AP Spanish Language, AP Spanish Literature	Latin 4, Latin Prose/Poetry, Greek 4 H, AP Latin, <i>or</i> Modern Language, AP Spanish Language, AP Spanish Literature

Classical Languages

Latin 1 (#5010)

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

Greek 1 Honors (#5510)

Prerequisite for sophomores, juniors and seniors:

- *Department chair recommendation*

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

Latin 2 (#5020)

Prerequisites:

- *C in Latin 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 skills with an appreciation of culture, geography, mythology, Roman history and derivatives, and read an historical novel in English.

Latin 2 Honors (#5025)

Prerequisites:

- *B+ in Latin 1*
- *Department chair 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 complete the Oxford Latin Course in three quarters. The fourth quarter is devoted to reading selections. 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 (#5520)

Prerequisites:

- *B in Greek 1 H*
- *Department chair recommendation*

Permission to take this course may be revoked due to poor performance on the Greek 1H final exam.

A continuation of the course begun in freshman year, this course completes the basic grammar and continues the emphasis on developing reading skills with an integration of culture, geography, mythology, Greek history and derivatives.

Latin 3 (#5030)

Prerequisites:

- *Successful 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 (#5036)

Prerequisites:

- *B in Latin 2 H*
- *Department chair recommendation*

Permission to take this course may be revoked due to poor performance on the Latin 2 H final exam.

This course is a survey of Latin prose and poetry. Prose selections include excerpts from the works of Livy. Poetry selections include excerpts from the works of Vergil, Ovid and Martial. There is ongoing stress on vocabulary, grammar, and more advanced translation skills. Emphasis is placed on stylistic analysis of Latin prose and poetry.

Latin 3 Advanced Honors (#5038)

Prerequisites:

- *B+ in Latin 2 H*
- *Department chair recommendation*

Permission to take this course may be revoked due to poor performance on the Latin 2 H final exam.

The year is devoted to reading Caesar's Gallic War and Vergil's Aeneid. Emphasis is placed on literary appreciation and interpretation. This course is designed to prepare students for AP work in senior year.

Greek 3 Honors (#5530)

Prerequisite:

- *Department chair recommendation*

After a review of vocabulary and grammar, the course transitions into translation of Xenophon's Anabasis and, in the fourth quarter, the translation of excerpts from Homer's Iliad. Translation is combined with examination and discussion of each work's genre, author, style and place in the history of Greek literature.

Latin 4 (#5040)

Prerequisites:

- *B in Latin 3*

Permission to take this course may be revoked due to poor performance on the Latin 3 final exam.

Prose selections include excerpts from the works of Livy. Poetry selections include excerpts from the works of Vergil, Ovid and Martial. There is ongoing stress on vocabulary, grammar and more advanced translation skills. Emphasis is placed on stylistic analysis of Latin prose and poetry.

Latin Prose and Poetry Honors (#5047)

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 Tacitus and Cicero, and poems 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.

Advanced Placement Latin (#5055)

Prerequisites:

- *B+ in Latin 3 Adv.*
- *Department chair 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 4, 5 and 6 of Caesar and Books 2, 4 and 6 of Vergil. Both works are read in their entirety in English. 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 (#5540)

Prerequisite:

- *Department chair 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.

Modern Languages

French 1 H (#6115) Italian 1 (#6210) Spanish 1 (#6010) Mandarin Chinese 1 H (#6410)

Prerequisites:

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

NOTE: choose one.

The beginning level of these six 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 (#6125) German 2 H (#6325) Italian 2 (#6220) Spanish 2 (#6020) Mandarin Chinese 2 H (#6415)

Prerequisites:

- *Level 1 of language or placement examination*
- *Department chair 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 Honors (#6225)

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 (#6025)

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 (#6135) German 3 H (#6335) Italian 3 (#6230) Spanish 3 (#6030) Mandarin Chinese 3 H (#6420)

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 (#6235)

Prerequisites:

- *A- in Italian 2 or B+ in Italian 2 H*
- *Department chair 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 (#6035)

Prerequisites:

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

Advancing or transfer students must complete levels 1, 2 and 3 of Rosetta Stone, and up to Level N of a graded reader prior 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.

Advanced Placement Spanish Language (#6040)

Prerequisites:

- *B+ in previous language classes*
- *Department chair recommendation*

Students prepare for the Advanced Placement Spanish Language examination in May. Students will develop reading and listening comprehension, and write formal correspondence and persuasive essays. Also, students will develop speaking skills and cultural enrichment.

Advanced Placement Spanish Literature (#6045)

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.

Italian 4 Honors (#6245)

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 (#6160)

Prerequisites: French 3H or placement exam and department chair recommendation

Mathematics

Note: incoming freshmen who have successfully completed Algebra in 8th grade and scored a minimum of 90% on the Algebra Regents exam may qualify to take either Geometry H or Algebra 2/Trig H in 9th grade.

Freshman	Sophomore	Junior	Senior
Algebra 1 Geometry H	Geometry Geometry H Algebra 2/Trig H Alg 2/Trig Adv H	Algebra 2/Trig Precalculus Precalculus H Calculus H AP Calculus AB <u>Computer Science Electives:</u> Java Programming Computer Science H	Precalculus Calculus Calculus H AP Calculus AB Calculus 2 Adv H Statistics H AP Statistics <u>Computer Science Electives:</u> Java Programming Computer Science H

Algebra 1 (#2005)

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 (#201809) (9th 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. In the 4th quarter, basic applications in Statistics will be covered. 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 (#2016)

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 (#2019)(10th Grade)

Prerequisites:

- *A- in Algebra or B+ in Algebra 2 H or B in Algebra 2 H with current teacher recommendation*

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. In the 4th quarter, basic applications in Statistics will be covered.

Algebra 2/Trigonometry Honors (#2035)

Prerequisite:

- *Must have taken Geometry Adv. H*

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.

Algebra 2/Trigonometry Adv. Honors (#2040)

Prerequisites:

- *A- in Geometry Adv. H (or B+ with current teacher recommendation)*

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 (#2030)

Prerequisite:

- *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.

Precalculus (#2401)

Prerequisites:

- *Algebra 2 Honors as a freshman or*
- *Algebra 1 as a freshman and Geometry Honors as a sophomore or*
- *Algebra 2/ Trigonometry as a junior*

This course is designed for those students who have taken Algebra 2 Honors as a freshman, both Algebra 1 freshman year and Geometry Honors sophomore year, or 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.

Precalculus Honors (#2405)

Prerequisites:

- *Algebra 2/Trig H as a sophomore or*
- *B in Algebra 2 Honors as a freshman and Geometry Honors as a sophomore or*
- *Algebra 1 as a freshman and B in Geometry Honors as a sophomore*

Note that students who received a B in Algebra 2H as a freshman and an A- in Geometry for their final grade as a sophomore, can reapply at the end of the school year to be considered for this class.

This course is designed for those students who have taken Algebra 2 Trig Honors as a 10th grader, those who have received B+ or better in Algebra 2 Honors as a 9th grader and have taken Geometry Honors, or those who have taken Algebra 1 as a 9th grader and who have received B+ or better in Geometry Honors as a 10th grader. 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.

Calculus Honors (#2410)

Prerequisites:

- *Completed Algebra 2/Trig Adv. H*
- *B+ in Algebra 2/Trig H*
- *B in Pre-Calculus Honors*
- *A- in Pre-Calculus*
- *Current teacher recommendation*

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.

Advanced Placement Calculus AB (#2460)

Prerequisites:

- *B+ in Algebra 2/Trig Adv. H*
- *B in Calculus Honors*
- *Current teacher recommendation*

This course 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 (#2470)

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 take the AP Calculus BC exam.

Calculus (#2420)

Prerequisites:

- *A- in Algebra 2/Trig*
- *Precalculus or C in Precalculus H*
- *Not coming from AP Calculus or Calculus H*

This course offers a review of topics covered in Precalculus, 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.

Statistics Honors (#2445)

Prerequisites:

- *A- in Algebra 2/Trig*
- *B- Calculus H or B Precalculus H*
- *B+ in Precalculus*
- *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.

Advanced Placement Statistics (#2452)

Prerequisites:

- *A- in Pre-Calculus H*
- *B+ in Calculus H, 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.

Computer Science Electives

Java Programming (#2200)

Prerequisites:

For rising juniors:

- B in Algebra 2/Trig Adv. H or B+ in Algebra 2/Trig H

For rising seniors:

- B in Precalculus, 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 Algebra 2/Trig Advanced Honors or Algebra 2/Trig 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. Students who complete this course can take Computer Science Honors in senior year.

Computer Science Honors (#2431)

Junior Prerequisites:

verifiable experience (summer institute/portfolio of applications) equivalent to the Java Programming course. Since this is a seventh subject, juniors who take Computer Science Honors must also be taking an honors math course: AP Calculus, Calculus H or Precalculus H.

Senior Prerequisites:

Java Programming or its equivalent (verifiable training/experience in Java or Python) and B+ in Pre-Calculus or B in Pre-Calculus Honors, Calculus Honors or AP Calculus.

The Computer Science Honors course addresses the development of computer programs that correctly solve a given problem. The course focuses on the design issues that make programs understandable, adaptable, and when appropriate, reusable. As students develop classes, they are presented with other important concepts including the analysis of algorithms, the use of fundamental data structures, and the development of virtual models. This suggests a more structured presentation than covered in a course in Java Programming. An understanding of the basic hardware and software components of computer systems and the responsible use of these systems are also integral parts of the course. This course is intended to serve both computer science majors as well as those who will major in other disciplines that require significant involvement with technology.

Religious Studies

Freshman	Sophomore	Junior	Senior
Religious Studies 1	Religious Studies 2	Religious Studies 3	Religion Elective

Religious Studies 1 (#8010)

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 (#8020)

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 (#8030)

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.

Christian Quest for Social Justice (#8047)

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.*

Introduction to Philosophy (#8065)

What does it mean to know, to think, to be, to act, to believe, to love? From a Christian perspective, this course chronologically explores core concepts, thoughts and ideas from the Western philosophical tradition while developing an understanding of what it means to be human and Christian. In so doing the course introduces students to the study of the human person, epistemology, ethics, logic, ontology and the rationality for belief in God/Christ. An exploration of the thought of such philosophers as Socrates, Plato, Aristotle, Augustine, Aquinas, Descartes, Kant, Hume, Nietzsche, Rahner, John Paul II, among others, assists us in our quest. In addition, this course is designed to introduce students to the demands and rigor of an introductory college course and is conducted as such. Given the above, students are expected to think deeply, contribute meaningfully and participate fully.

Psychology Through the Eyes of Faith (#8068)

This course examines the roles of psychology and faith in answering the question: What is the meaning of life? It is hard to talk about faith without considering psychology. After all, people can only experience the holy through their own human capacities, and many Jews and Christians believe that human beings can, or do, reflect the nature of God in some way. Theology, for its part, has plenty to say about human nature. This course, then, is not just psychology of religion; it is an attempt to examine some of the possible kinds of dialogue between psychology and religious studies. There are a number of questions that we expect to surface throughout the course: What are human experiences of God like? What do these experiences suggest about human nature -- as it is and as it should be? What is the role of the individual in religion? What is the role of the community? Of ritual? How can these things best be studied and understood? Does it matter whether the person studying them is inside or outside the religion itself? Why? Our central question for this course is: What is the relationship between faith and psychological health?

Quest for the Male Soul (#8044)

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.

World Religions (#8054)

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.

Religious Studies 4 Seminar Honors (#8052)

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.*

Philosophy of Religion (#XXXX)

This is a course in the *Philosophy of Religion*. It is not a course in comparative religion, the history of religion, or the psychological aspects 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. We will be trying to figure out the correct answers to 10 major philosophical and theological questions, some of which include the following: the nature of God, the dilemma of freedom and foreknowledge, divine hiddenness, the problem of evil, and the meaning of life, all of which point to the essential question of the course, the most important question throughout the course of human, nay, all history: does God exist?

Theology of Sport (#XXXX)

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.

Science

Note: *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. If you scored between 75% - 89%, you may qualify for Biology H in 9th grade.*

A student may opt to take a second science course as a 7th subject if his schedule permits in his sophomore, junior and/or senior years depending on his overall GPA (3.0 required) and meeting all prerequisite grades for the desired science courses.

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

Biology (#4020)

Essentials of the New York State syllabus are incorporated into this course; the curriculum is based on the New York State Regents curriculum. Major topics covered include introductory chemistry, the cell, 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 (#4023)

Prerequisites: entrance exam and placement testing.

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. Students read and report on new research and technologies. The unifying themes of evolution, diversity and unity, genetic continuity, organisms and the environment, behavior, structure and function, regulation, science and inquiry, history of biological concepts, and science and society are included in the course. Individual and group assignments expand the information included in the textbook. Laboratory investigations are incorporated into the syllabus and 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.

Advanced Placement Biology (#4450)

Prerequisites:

For rising sophomores:

- B+ in Biology H or A in Biology AND
- B in Geometry Adv. H or B in Algebra 2H or A- in Algebra 1

For rising juniors:

- B+ in Chemistry Adv H or B+ in Chemistry H or A in Chemistry AND
- B in Geometry H, Algebra 2/Trig Adv H or A- in Geometry

For rising seniors:

- B in AP Chemistry or B+ in Chemistry Adv H or B+ in Chemistry H or A in Chemistry or B+ in Physics H or an A in Physics AND
- B in Calculus, B in Calculus H, B in AP Calculus AB, B in Precalculus H or A- in Precalculus or A- in Alg 2/Trig

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 (#4030)

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 (#4035)

Prerequisites:

For rising sophomores:

- B+ in Biology H or A- in Biology AND
- A in Algebra 1 or B in Algebra 2H, B - in Geometry Adv. H
-

For rising juniors:

- B+ in AP Biology or B+ in Biology H or A- in Biology AND
- A in Geometry, B in Geometry H, and B- in Algebra 2/Trig Adv H

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

have been 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 concept and a greater amount of independent work is required.

* 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.

Advanced Placement Chemistry (#4038)

Prerequisites:

For rising juniors:

- *B in Chemistry Advanced H or B+ in Chemistry H or A in Chemistry AND*
- *B- in Algebra 2/Trig Adv. H, Alg 2/Trig H or Geometry Adv H, or B in Geometry H or A in Geometry*

For rising seniors:

- *B in Chemistry Advanced H or B+ in Chemistry H or A in Chemistry AND*
- *B+ in Calculus, B- in Calculus H, B- in AP Calculus AB, B- in Precalculus H or A in Precalculus or A in Alg 2/Trig.*

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 (#4040)

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 (#4140)

Prerequisites:

For rising juniors:

- *A- in Chemistry or B in Chemistry H or B- in AP Chemistry or B- in Chemistry Advanced H*
- *AND B in Algebra 2/Trig Adv. H or A- in Geo H or A in Geometry*

** If taken concurrently with a chemistry class a C+ in AP Biology AND B in Algebra 2/Trig Adv. H or A- in Geo H or A in Geometry*

For rising seniors:

- *A- in Chemistry or B in Chemistry H or B- in AP Chemistry or B- in Chemistry Advanced H*
AND A in Algebra 2/Trig or A in Precalculus or B+ in Precalculus H or A- in Calculus or B+ in Calculus H or B in AP Calculus AB

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.

Advanced Placement Physics 1 (#444611)

Prerequisites for rising juniors:

- *B in AP Chem or B+ in Chem H or B in Adv Chem H or an A in Chem AND*
- *B+ in Algebra 2/Trig Adv. H or A in Geometry H*
- *If taken concurrently with a chemistry class a B in AP Biology.*

This course is aimed 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.

*Note: This course is only available to juniors

Advanced Placement Physics 1 (#4446)

Prerequisite for rising seniors:

- *B+ in Physics H or an A in Physics AND*
- *B in AP Calculus, Calculus H, Calculus or a minimum grade of A in any other junior math course*

This course is aimed 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.

*Note: This course is only available to seniors

Aeronautical Science (#4480)

Prerequisites:

- *C+ in Physics AND*
- *B- in a junior math course*

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 single-engine 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 and mathematics (STEM). 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 (#4405)

Prerequisites:

- B+ in Physics or B in Physics H or C+ in AP Physics

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 (#4600)

Prerequisites:

- B+ in Biology or B in Biology H AND
- C- in Physics

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 Physics.*

Engineering Science (#4420)

Prerequisite:

- B in Physics or B- in Physics Honors AND
- B- in AP Calculus, Calculus H, Calculus or a minimum grade of B in any other junior math course

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 Physics.*

Forensic Science (#4460)

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.

Meteorology (#4470)

Prerequisite:

- *Three years of science (Seniors only)*

Meteorology involves a comprehensive in-depth study of the atmosphere and all of its components. This course provides students with an opportunity to develop a deeper understanding of the weather and atmospheric phenomena that affect our lives daily. This course involves extensive discussions on the structure of the atmosphere, severe weather, geography, climate change and weather forecasting. Students will use their tablets daily to analyze and interpret weather maps, satellite imagery and Doppler radar imagery applying their knowledge from the course enhancing their forecasting skills and understanding of Meteorology. Students will also increase their awareness on topics such as Climate Change and environmental concerns addressed in the media. *This course may be taken concurrently with another science course.*

Social Studies

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

Global Studies 1 (#3015)

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 (#3017)

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 (#3025)

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 (#3027)

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.

Advanced Placement European History (#3440)

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.

Advanced Placement World History (# 3320)

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 (#3030)

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 (#3035)

Prerequisites:

- *B- in Global Studies 2 or C+ 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.

Advanced Placement U.S. History (#3330)

Prerequisites:

- *A- in Global Studies 2 or B in Global Studies 2 H or B- in a sophomore AP course*
- *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 (#3460)

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 (#3500):

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.

Economics Honors (#3405)

Prerequisites:

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

This course provides a fundamental knowledge of contemporary economics (microeconomics and macroeconomics). The course deals with the language and tools of economists and incorporates economic analysis of theoretical and contemporary problems. The course also explores the history of economic thought and the role institutions such as the New York Stock Exchange and Federal Reserve Bank play in the current U.S. economy. Methods of evaluation include exams, analytical papers, homework and a stock market simulation.

Advanced Placement U.S. Government and Politics (#3380)

Prerequisites:

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

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.

Advanced Placement Macroeconomics (#3360)

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.

Advanced Placement Psychology (#3600)

Prerequisites:

- *B in U.S. History or B- in U.S. History H or C 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 Orchestra	Fundamentals of Acting Fundamentals of Music History of Jazz Intro to Western Music Jazz Ensemble Music Comp 1 Orchestra Studio Art 1 Vocal Music	Architectural Drawing Art History H Computer Graphics & Web Design Fundamentals of Acting Fundamentals of Music History of Jazz Intro to Western Music Jazz Ensemble H Music Comp 1 Music Comp 2 Orchestra Studio Art 1 Studio Art 2 Vocal Music	AP Studio Art AP Art History Architectural Drawing Art History H Computer Graphics & Web Design Fundamentals of Acting Fundamentals of Music History of Jazz Intro to Western Music Jazz Ensemble H Music Comp 1 Music Comp 2 Orchestra Studio Art 1 Studio Art 2 Vocal Music

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

Art History Honors (#7070) - (will be offered in 2020-2021 school year)

Prerequisite:

- *B average in two years of history*
- *and B average in two years of English*
- *Department chair recommendation after interview*

This is an introductory survey in art history. Students will learn to look at art works critically and analyze what they see. They will gain an understanding and appreciation of architecture, sculpture, painting and other art forms. This course is for students who are good readers, have a strong background and interest in history, and have a desire to learn how artistic creations are expressions of culture. Beyond experiences in the classroom students will be expected to participate in additional distance learning. Limited to 18 students.

** Preference will be given to seniors for this course **

Advanced Placement Art History (#7080) - (will be offered in 2019-2020 school year)

Prerequisites:

- *B+ average in two years of Social Studies and B+ average in two years of English*
- *Department chair approval after an interview*

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.

Architectural Drawing (#7060)

This class heightens student's awareness of how our environment affects our everyday lives. Mechanical drawing concepts are taught (e.g., floor plans, elevation, sections, and perspectives). Three dimensional constructions are done. The above concepts are related to their everyday environment by observing and drawing from actual places around the school building, the Fordham campus and the student's own living environment. Students are graded on their projects and periodically tested on the information they are taught in class.

Band Methods (#7120)

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.

Computer Graphics and Web Design (#7090)

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, Balance, 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.

Fundamentals of Music (#7015)

This course is designed to provide an introduction to the fundamental skills of reading and writing music. Students' goals and achievements from successfully completing this course include a basic understanding and ease in performing rhythmic and melodic exercises as well as practical knowledge of the musical language of key signatures, intervals, triads and fluency of music dictation. This course is both lecture and laboratory based. Students are given written as well as performance based exams.

Fundamentals of Acting (#7020)

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.

Theater Arts: Stage Crew (#7310)

Stage crew meets twice a week from 3:00- 5:00pm and increases in time during the weeks leading up to the performance. Students will be responsible for set construction, painting, scene changes, and technical work. Maximum 25 students.

History of Jazz (#7110)

This course is designed to introduce students to the Jazz genre through the study of its birth and major divisions. Students will use the six elements of music (rhythm, melody, texture, dynamics, form and

timbre). Students listen to musical examples as well as engage in discussions about each of the works that is studied. Students are able to write about and describe music that is studied in class through learned vocabulary and concepts. Students also study iconic musicians and composers from each jazz division. Students are also required to attend one live performance outside of Fordham Prep.

Intro to Western Music (#7100)

This course is designed to introduce students to music from the six Common Style periods through the use of the five levels of listening (ignoring, pretending, selective, attentive and emphatic) and the six elements of music (rhythm, melody, texture, form, dynamics and timbre). Students listen to musical examples as well as engage in discussions about each of the works that are studied. Students are able to write about and describe music that is studied in class through learned vocabulary and concepts. Students are also required to attend one live performance outside of Fordham Prep.

Jazz Ensemble (#7135)

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 (#7136)

Prerequisites:

- *one year as a member of the Jazz 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.

Music Composition 1 (Theory & Application) (#7124)

Prerequisites:

- *Department chair recommendation*

The student is given theory lessons and packets designed to move in a step by step process through the six elements of music: rhythm, melody, texture, form, dynamics and timbre. By mastering each of the steps in theory he becomes free to compose music using those specific techniques. Composing a well-balanced piece of music with or without lyrics is a major goal of this course.

Music Composition 2 (Form & Analysis) (#7125)

Prerequisites:

- *Department chair recommendation*

The student listens to a multiplicity of styles in both Classical and Contemporary music. An understanding of the forms available to the composer are revealed from this listening, group work and lectures. Composing pieces which either adhere to or vary from these forms are a major component of this course. Scores of different pieces are provided to students so they can see what they hear.

Orchestra (#7500)

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.

Vocal Music (#7140)

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 real-life experience exchanges. This is a performance course and is open to sophomores, juniors and seniors.

Studio Art 1 (#7050)

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 (#7058)

Prerequisite:

- *Studio Art 1*
- *Department chair approval*

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

Advanced Placement Studio Art (#7067)

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 one of the two AP exams offered by Fordham Prep: AP 2-D Art & Design, or AP Drawing. While there is much room for possible overlap between these two portfolios, a 2-D Art & Design portfolio should focus on the application of design elements and principles; A Drawing portfolio should focus on mark making, line quality, and surface manipulation. In either case, the student must complete an online portfolio for submission, as well as submit a limited number of actual works. The works will be returned by the College Board.

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 6th 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 English 1H	Religious Studies 1	Algebra 1 Geometry H	Latin 1 Greek 1H	Global 1 Global 1H	Biology Biology 1H
	Intro to Computers	Health/PE	Band Methods Jazz Ensemble Orchestra			
Sophomore	English 2 English 2H English 2 Adv. H	Religious Studies 2	Geometry Geometry H Algebra 2/Trig H Alg 2/Trig Adv H	Latin 2 or 2H Greek 2H or Modern Language (Level by placement: 1, 2, or Honors in all languages, AP Spanish Language)	Global 2 Global 2H AP European History AP World History	AP Biology Chemistry Chemistry H
	* Fine Arts Elective	PE				
Junior	English 3 English 3H AP English Lang	Religious Studies 3	Algebra 2/Trig Precalculus Precalculus H Calculus H AP Calculus AB Java Programming Computer Science H	Latin 3, 3H or Latin 3 Adv H Greek 3H or Modern Language (AP Spanish Lang., AP Spanish Lit.)	US History US History H AP US History	AP Biology Chemistry Chemistry H AP Chemistry Physics Physics H AP Physics 1
	* Fine Arts Elective	PE				
Senior	English Elective or AP English Lit	Religion Elective	Calculus Calculus H AP Calculus AB Calculus 2 Adv H Pre-Calculus Statistics H AP Statistics Java Programming Computer Science H	Latin 4 Latin Prose/Poetry Greek 4H AP Latin or Modern Language (AP Spanish Lang. or AP Spanish Lit.)	Social Studies Elective: AP European History AP World History AP Macroeconomics AP U.S. Gov't & Politics AP Psychology America Since 1945 H Economics Honors Pre-Law/Great Constitutional Issues	Science Elective: AP Biology AP Chemistry AP Physics 1 Aeronautical Science Biochemistry H Biological Anthropology H Engineering Science Forensic Science Meteorology
	*Fine Arts Elective	PE				

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