

APPENDIX A

2018-19

COURSE CATALOG

GRADES 8-12

Business

Philosophy

The business curriculum, designed to meet the diversified needs of all students, develops students' ability to identify, analyze and solve a range of basic and complex business issues.

Business Department Faculty:

Mr. Brian Carlson, Department Chair

Mrs. Grace Halevy

BUS 304 Introductions to Economics and Business Law

Designed for students who plan to study business in college, this course provides a basic understanding of economic principles and theories and introduces students to the role government plays in the economy as well as laws governing business formation and transactions.

Topics include Introduction to Economics, Global Trade, United States Economy, Business Cycles, Fiscal Policy, Monetary Policy, Government Regulatory agencies, World Trade Organization, Legal Contracts, International Law, and Consumer Law.

Credit: 5

Quality Point Group: I

Open to Grades: 10, 11, 12

Prerequisite: None

BUS 305 Retail and Fashion Marketing

During the first semester, all students will take Intro to Marketing, where they will examine both traditional and online marketing strategies. Students will also focus on analyzing and creating advertising materials, including branding, logo design, and advertising techniques. During the second semester, students will use the strategies and techniques learned in the first semester, and apply them to the specific concentration which they have selected.

Credit: 5

Quality Point Group: I

Open to Grades: 10, 11, 12

Prerequisite: None

BUS 306 Sports and Entertainment Marketing

During the first semester, all students will take Intro to Marketing, where they will examine both traditional and online marketing strategies. Students will also focus on analyzing and creating advertising materials, including branding, logo design, and advertising techniques. During the second semester, students will use the strategies and techniques learned in the first semester, and apply them to the specific concentration which they have selected.

Credit: 5

Quality Point Group: I

Open to Grades: 10, 11, 12

Prerequisite: None

BUS 307 Principles of Entrepreneurship

In this business course, students learn what it takes to be an entrepreneur while mastering the basics of planning and launching a successful business. Whether starting your own money making business or creating a non-profit to help others, this course develops the core skills needed to be successful. Students will learn how to come up with a new business idea, attract investors, market your business, manage expenses, and learn how to prepare financial statements. This course will rely on outside resources such as guest lectures and developing summer internships for juniors and seniors.

Credit: 5

Quality Point Group: I

Open to Grades: 11-12

Prerequisite: Faculty team interview

BUS 310 Personal Finance

Students will learn to manage personal finances and make intelligent, daily consumer decisions. Topics include: budget preparation, saving and investing, insurance protection, income tax preparation, credit, and consumer/internet fraud protection laws.

Credit: 5

Quality Point Group: I

Open to Grades: 10, 11, 12

Prerequisite: None

BUS 312 Accounting Principles

Accounting, “the language of business”, is designed to provide both the college-bound and business student with a text and computer-based study of accounting concepts. All students planning to major in business, finance, accounting, or management in college are strongly advised to take Accounting Principles. Topics include basic financial accounting procedures, the business cycle, fundamental managerial accounting concepts, and generally accepted accounting principles (GAAP); tools include accounting business simulations as well as current technology (Excel spreadsheet, Peachtree, or other software applications).

Credit: 5

Quality Point Group: I

Open to Grades: 11, 12

Prerequisite: Final grade of 85 or above in any Business Department or math class

BUS 501 Advanced Placement Macroeconomics

The AP course in macroeconomics offers students a thorough understanding of economic principles that apply to an economic system as a whole. With an emphasis on the study of national income and price-level determination, the course also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. All students taking the course are required to take the Advanced Placement Macroeconomics examination that is administered at the end of the school year.

Credit: 5

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 85 in Honors Algebra II or 93 in Algebra II Accelerated and a placement test.

BUS 502 Advanced Placement Microeconomics

The AP course in microeconomics provides students with a thorough understanding of the economic principles that apply to individual decision makers, both consumers and producers, within the larger economic system. The course primarily emphasizes the nature and functions of product markets as well as the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. All students taking the course are required to take the Advanced Placement Microeconomics examination that is administered at the end of the school year. **(Not offered 2018/2019)**

Credit: 5

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 85 in Honors Algebra II or 93 in Algebra II Accelerated and a placement test.

Computer Science

Philosophy

The computer science curriculum prepares students to succeed in this rapidly expanding technological society. Instruction focuses on programming, analysis, independent reasoning, and problem solving. The sequence of courses is geared toward students who are interested in pursuing a technological, STEM course of study (computer science, engineering, robotics, etc.) after high school.

Computer Science Department Faculty

Mrs. Elizabeth Buniak

Mr. Brian Corcoran

Mr. William Myers

CMP101 Introduction to Programming Using Visual Basic

Designed to be the first course in a sequence ending with Java, CMP101 provides students with solid problem-solving and programming skills in a clear, coherent format. Students will be introduced to object oriented programming using Microsoft programs. Topics include: fundamentals of programming, input routines, print formats, simple graphics, looping, and arrays.

Credit: 5

Quality Point Group: I

Open to Grades: 8, 9, 10, 11, 12

Prerequisite: None

CMP 200 Honors Intermediate Programming - C++

The purpose of this course is to continue the content of the prerequisite course with an elaboration of C-based languages, specifically C++. Topics shall include : basic language but not limited to the fundamentals of C++, top-down program design, functions, classes, and objects. This course is designed to be the second course in a sequence ending with Java.

Credit: 5

Quality Point Group: II

Open to Grade: 9, 10, 11, 12

Prerequisite: Minimum grade of B in CMP101 Introduction to Programming or skills assessment (placement test).

CMP 310 Honors Advanced Web Programming and Design

This survey course further enhances the skills acquired in Visual Basic (CMP101) and/or Honors Intermediate Programming (CMP 200) by incorporating the design and programming aspects of websites. Students will learn to code in HTML, various scripting languages including JavaScript

and PHP, and to graphically design web interfaces using Adobe CS5. Topics include: scripting, object-oriented programming concepts and language basics; web security; computer ethics; copyright; team formation, managing projects.

Credit: 5

Quality Group II

Open to Grade: 9, 10, 11, 12

Prerequisites: Final grade of B in either CMP101 (Introduction to Programming) or in CMP 200 (Honors Intermediate Programming - C++)

CMP 501 Advanced Placement Computer Science A

The Advanced Placement Course in Computer Science is structured according to the guidelines of the College Board Advanced Placement Program. It is a rigorous course taught in the Java programming language. The course is intended for the mathematically able and analytical student who is able to demonstrate proficiency in the areas of problem solving, reading, writing and using math notation at the Algebra II level, and general writing skills. Students considered to take the AP course in Computer Science must be highly motivated to keep up with the fast-paced schedule of project deadlines. They must be interested in and capable of working through independent study assignments with guidance from the instructor. Topics to be covered include program design, implementation and analysis, standard data structures, standard algorithms, and computer systems.

Credit: 5

Quality Group III

Open to Grade: 10, 11, 12

Prerequisites: Minimum grade of B+ in Honors Intermediate Programming - C++ (CMP 200) and required placement test.

CMP 502 Advanced Placement Computer Science Principles

Description summarized/paraphrased - from AP Computer Science Principles Course and Exam Description catalog The Advanced Placement Course in Computer Science Principles is structured according to the guidelines of the College Board Advanced Placement Program. In this course, students will develop computational thinking skills such as using computational tools to analyze and study data, and working with large data sets to analyze and draw conclusions from trends. The course encourages students to be creative in developing computational artifacts based on their interests. Students will also develop important communication and collaboration skills by working individually as well as collaboratively to solve problems, and will write about the impact their solutions could have on their community, society and the world.

Credit: 5

Quality Group III

Open to Grade: 10*, 11, 12

Prerequisites: Completion of a first-year algebra course with a strong foundation in basic linear functions and composition of functions; Minimum grade of B+ in either Honors Intermediate

Programming - C++ (CMP 200) or Honors Advanced Web Programming and Design (CMP 310)

English

Philosophy

Critical reading, writing, and speaking skills are keys not only to academic and career achievements but also to personal fulfillment. The study of literature and rhetoric enables us to share common human experiences, to identify and empathize or challenge others' viewpoints, and to reason with a world that is not always rational.

English Department Faculty:

Mrs. Catherine Porter, Department Chair

Mr. Brendan Berls

Dr. Jeffrey Bond

Mrs. Jo-Ann Higgs

Mrs. Susan Occhicone

Ms. Ashley Rhodes

Mrs. Katherine Stehr

Mrs. Dorothy Thayer

Mrs. Catherine Valente

Mr. Brian Vohden

Ms. Joan Walter

ENG 8 Eighth Grade Literature

The eighth grade literature focuses on enriching students' vocabulary and sharpening their critical reading and writing skills. The course also familiarizes students with a variety of genres--including fiction, nonfiction, poetry, drama, informational text, myths, legends, and folktales—and teaches them to analyze plot, conflict, characterization, setting, mood, style, voice, and tone.

Credit: 5

Open to Grades: 8

Prerequisite: None. Enrollment based on placement testing.

ENG 8H-L Honors Eighth Grade Literature

Like the regular level course, the eighth grade literature focuses on enriching students' vocabulary and sharpening their critical reading and writing skills. The course also familiarizes students with a variety of genres--including fiction, nonfiction, poetry, drama, informational text, myths, legends, and folktales—and teaches them to analyze plot, conflict, characterization, setting, mood, style, voice, and tone. At the Honors level, coursework will be supplemented with class studies of full-length novels and independent reading projects.

Credit: 5

Open to Grades: 8

Prerequisite: None. Enrollment based on placement testing.

ENG 8-W Writing Skills

This course offers instruction in grammar, structure, usage, and mechanics as well as a wide variety of writing experiences, including essays, creative writing, and research. Students learn and apply the criteria for effective writing, such as clear organization, coherence, precise word choice, and sentence fluency. They also practice the writing process: prewriting, drafting, revising/editing, proofreading, publishing/presenting.

Credit: 5

Open to Grades: 8

Prerequisite: Enrollment based on placement testing.

ENG 8H-W Honors Writing Skills

This course offers a variety of writing experiences at the Honors level, including essays, creative writing, and research, as well as instruction in advanced grammar, structure, usage, and mechanics. Students learn and apply the criteria for effective writing, such as clear organization, coherence, precise word choice, and sentence fluency. They also practice the writing process: prewriting, drafting, revising/editing, proofreading, publishing/presenting.

Credit: 5

Open to Grades: 8

Prerequisite: Enrollment based on placement testing.

ST SK-8 Eighth Grade Study Skills

The Study Skills course strengthens students' organizational and time management skills, study strategies, test preparation methods, critical reading and writing skills, and use of technology. Students will focus on the application of these skills in order to strengthen their performance in all subject areas.

Credit: 2

Open to Grades: 8

Prerequisite: None. Course runs concurrently with Physical Education (3 days Physical Education/ 2 days Study Skills).

ENG 101 English I

English I pairs the study of grammar, vocabulary, composition, and public speaking with various literary genres, such as autobiographies, biographies, essays, short stories, dramas, novels, and poetry. Students also learn proper research skills, including how to effectively and accurately support an argument using secondary sources and MLA format.

Credit: 5

Quality Point Group: I

Open to Grades: 9

Prerequisite: Enrollment based on placement testing.

ENG 102 Honors English I

Honors English I is designed for students with advanced reading comprehension and writing skills. The course surveys major literary genres and requires analysis and evaluation of selected short stories, myths, poems, and Shakespeare's plays *Romeo and Juliet* and *Macbeth*. Students also study Greek and Latin vocabulary roots, public speaking, and proper research skills, including how to effectively and accurately support an argument using secondary sources and MLA format. By year's end, students should be able to write clear, effective, and structurally accurate essays.

Credit: 5

Quality Point Group: II

Open to Grades: 9

Prerequisite: Pope John 8th graders must have a 93 average in BOTH English and Writing Skills or an 85 in BOTH Honors English and Honors Writing Skills to proceed to Honors English I. Students entering Pope John as 9th graders must take a placement test.

ENG 110 Language/Literature for ESL I

Students will be introduced to a wide array of literature, from short stories and poetry to drama and novels. Students will also focus on rigorous development of essential grammar and writing skills.

Credit: 5

Quality Point Group: I

Open to Grades: 9th grade International students

Prerequisite: None

ENG 201 English II

English II offers a survey of American literature, including autobiographies, biographies, essays, short stories, dramas, novels, and poetry. The course also reinforces proper research skills, including how to effectively and accurately support an argument using secondary sources and MLA format. Students study grammar, vocabulary, public speaking, and the fundamentals of writing clear, effective, and structurally accurate essays.

Credit: 5

Quality Point Group: I

Open to Grades: 10

Prerequisite: Final grade of 65 in English I

ENG 202 Honors English II

Honors English II offers qualified students an accelerated survey of American literature, including essays, short stories, dramas, novels, and poetry. Students will hone not only their critical reading, writing, and public speaking skills, but also their ability to effectively and accurately support an argument using secondary sources and MLA format. Honors English II stresses the development of critical thinking skills, reading comprehension and analysis, and coherent and logical expression of written and spoken ideas.

Credit: 5

Quality Point Group: II

Open to Grades: 10

Prerequisite: Final Grade of 83 in Honors English I or 93 in English I.

ENG 210 Language/Literature for ESL II

Students will expand their study of literature with more advanced texts from the traditional canon, develop more advanced grammar and writing skills, and compose a formal MLA research paper.

Credit: 5

Quality Point Group: I

Open to Grades: 10th grade International students

Prerequisite: None

ENG 301 English III

English III offers a survey of British literature, including essays, short stories, dramas, novels, and poetry. Students also study grammar, vocabulary, public speaking, and the fundamentals of writing clear, effective, and structurally accurate essays. The course reinforces proper research skills, including how to effectively and accurately support an argument using secondary sources and MLA format.

Credit: 5

Quality Point Group: I

Open to Grades: 11

Prerequisite: Final grade of 65 in English II.

ENG 302 Honors English III

Honors English III offers qualified students an accelerated survey of British literature, including essays, short stories, dramas, novels, and poetry. Students will hone not only their critical reading, writing, and public speaking skills, but also their ability to effectively and accurately support an argument using secondary sources and MLA format. Honors English III stresses the development of critical thinking skills, reading comprehension and analysis, and coherent and logical expression of written and spoken ideas.

Credit: 5

Quality Point Group: II

Open to Grades: 11

Prerequisite: Final grade of 83 in Honors English II, or 93 or in English II.

ENG 304 Creative Writing

Course Description: Students will participate in a multi-genre introduction to the craft of creative writing and examine literary conventions as well as the techniques and tools essential to effective writing and editing. Students will also lay out, market, and distribute a yearly literary magazine spotlighting Pope John's talented writers.

Credit: 5

Quality Point Group: I

Open to Grades: 10, 11, 12

Prerequisite: 85 or above in prior English class.

ENG 401 English IV

English IV offers an overview of World Literature, often pairing an ancient text from a particular region with a modern one, for example the Persian epic *The Shahname* with *The Kite Runner*. Works studied include essays, short stories, dramas, novels, and poetry from ancient to modern times. Students also study grammar, vocabulary, public speaking, and the fundamentals of writing clear, effective, and structurally accurate essays. The course reinforces proper research skills, including how to effectively and accurately support an argument using secondary sources and MLA format.

Credit: 5

Quality Point Group: I

Open to Grades: 12

Prerequisite: Final grade of 65 in English III.

ENG 402 Honors English IV

Honors English IV offers qualified students an accelerated survey of World Literature, often pairing an ancient text from a particular region with a modern one, for example the Persian epic *The Shahname* with *The Kite Runner*. Works studied include essays, short stories, dramas, novels, and poetry from ancient to modern times. Students also study grammar, vocabulary, public speaking, and proper research skills, including how to effectively and accurately support an argument using secondary sources and MLA format. Honors English IV stresses the development of critical thinking skills, reading comprehension and analysis, and coherent, logical, and structurally accurate essays.

Credit: 5

Quality Point Group: II

Open to Grades: 12

Prerequisite: Final grade of 83 in Honors English III or 93 in English III.

ENG 410 Journalism

This course focuses on journalism, graphic design, photography, editing, and marketing skills. Students will produce the Pope John yearbook as well as online journalism content.

Credit: 5

Quality Point Group: I

Open to Grades: 10,11,12

Prerequisite: 85 or above in prior English class and a writing sample.

ENG 501-11 Advanced Placement English Literature and Composition

This course is designed according to the guidelines of the Advanced Placement Program of the College Board. At the conclusion of the course, all students sit for the Advanced Placement examination in English Literature and Composition. A course in literary interpretation, AP Literature and Composition offers an intense study of the various genres in literature: poetry, drama, the short story, the novel and the essay. Through critical essays and class discussion, students consider the work's structure, style, theme(s) as well as the use of figurative language, imagery, symbolism and tone.

Credit: 5

Quality Point Group: III

Open to Grades: 11

Prerequisite: Final grade of 87 in Honors English II or 97 in English II. Students in English II must take a placement test.

ENG 502-12 Advanced Placement English Language and Composition

The AP English Language and Composition course teaches students to recognize and analyze a variety of rhetorical contexts and to write skillfully for multiple purposes and audiences. At the conclusion of the course, all students sit for the Advanced Placement Test in English Language and Composition.

The course emphasizes the expository, analytical, and argumentative writing practiced by academics and other professionals as well as personal and reflective writing. Students will read primary and secondary sources carefully, synthesize materials from these texts in their own compositions, and cite sources using the Modern Language Association (MLA) conventions.

Credit: 5

Quality Point Group: III

Open to Grades: 12

Prerequisite: Final grade of 83 in AP Literature and Composition or 87 in Honors English III or 97 in English III. Students in English III must take a placement test.

Fine and Performing Arts

Philosophy

Art and music are vital factors in the development of the whole child; not only are they stimulating and fulfilling disciplines, but research confirms that performing, creating, and responding to both visual art and music strengthen students' problem-solving and critical thinking skills, thereby enhancing academic achievement and cultural literacy.

Fine and Performing Arts Faculty:

Mrs. Susan Elvena, Department Chair

Mrs. Jacquelyn Burt

Mrs. Catherine Kiff-Vozza

Mrs. Karen Scott

Mr. Evan Wasek

FNA 101 Introduction to Art

Using pen and ink, charcoal, pencil, wax and paint, students are taught the fundamentals of visual arts principles, including proportion, shading, perspective and design. Lectures and audiovisual presentations on art appreciation and history complement the classroom projects.

Credit: 5

Quality Point Group: I

Open to Grades: 9

Prerequisite: None

FNA 201 Art I

Designed for the student who has basic art skills and aptitude, Art I is a first year painting and drawing course. The first half of the course refines students' drawing skills in pencil, charcoal, pastels, pen and ink, and design; during the second half, students analyze the use of color and learn basic techniques in acrylic and water-based painting. Lessons in art history and appreciation complement classroom projects.

Credit: 5

Quality Point Group: I

Open to Grades: 10,11,12

Prerequisite: Completion of previous course in art sequence or demonstration of competency.

FNA 202 Mixed Chorus

A practical course in choral singing, Mixed Chorus welcomes students who are unsure of their vocal abilities but willing to try. The primary aim is developing the student's voice as naturally and artistically as possible. Students will not only learn good vocal techniques (posture, breath control, diction), but also how to read choral music and appreciate its history and quality. Chorus members will participate in many of the school activities, such as liturgies, concerts, and school assemblies.

Credit: 5
Quality Point Group: I
Open to Grades: 9, 10, 11, 12
Prerequisite: None

FNA 203 Concert Band

The Concert Band is a curricular, performance-based class open to all grade levels. The musical repertoire for this class includes standard and contemporary literature as well as transcriptions and arrangements. Students will learn the specifics of a quality warm-up, rehearsal etiquette, ensemble skills, and individual musicality. In addition to daily ensemble performance, students will receive individualized instruction. The Concert Band performs at various concerts, contests and festivals annually.

Credit: 5
Quality Point Group: I
Open to Grades: 8, 9, 10, 11, 12
Prerequisite: None

FNA 204 Music Theory

This course is designed for both instrumentalists and vocalists who are interested in pursuing music as a career. Topics include basic tonality, music theory, ear training, music history, composition, identification of intervals and chords by sound, rhythmic and melodic dictation, sight-reading, in-depth musical analysis, and important musicians.

Credit: 5
Quality Point Group: I
Open to Grades: 9, 10, 11, 12
Prerequisite: Substantial background in music performance at the individual or ensemble level.

FNA 301 Art II

Art II is designed as a second year drawing and painting course. The first semester is devoted to drawing skills and the second semester to painting. The course aims to refine the student's skills and encourage the development his/her personal style in drawing (pastels, pencil, charcoal, pen and ink, colored pencil) and in painting (oils, watercolors, and acrylics). In the painting component of the course, students learn canvas stretching and investigate color and composition theory, modeling form, and use of light. Only original works are accepted: the emphasis is on "performance." Audio-visual presentations, lectures, and field trips on art history and appreciation complement classroom projects.

Credit: 5
Quality Point Group: I
Open to Grades: 11, 12
Prerequisite: Completion of previous course in Art sequence or demonstration of competency.

FNA 302 Concert Chorus

Concert Chorus is a vocal performance class designed for those with a serious interest in singing various choral genres. Students are instructed in performance techniques and will sing for liturgies, school concerts, and assemblies. Although open to incoming freshmen and all upper classmen, admission to this class requires an audition.

Credit: 5

Quality Point Group: I

Open to Grades: 9, 10, 11, 12

Prerequisite: Audition Required

FNA 303-H Honors Jazz Ensemble

The Honors Jazz Ensemble is the premier instrumental performing ensemble at Pope John. Students are selected by audition only and must possess a high musical intellect and technical facility. The Jazz Ensemble introduces students to the many styles of jazz music as well as to the rich history of jazz as a cultural phenomenon in this country. The course includes studies in sight-reading, improvisation technique, and jazz theory. The ensemble studies a wide range of popular music genres, from Big Band and Swing to Latin, Rock, and Funk, and also performs for annual concerts and at various contests and festivals.

Credit: 5

Quality Point Group: II

Open to Grades: 9, 10, 11, 12

Prerequisite: Audition Required

FNA 400 Honors Women's Chorus

Women's Choir is a select, auditioned choir that requires advanced performances for treble voices. These young women are expected to perform four part treble harmonies, such as SSAA music, and to lead the liturgical music for the Pope John monthly Masses. The women's choir will also perform for community service events and for the Pope John winter and spring concerts.

Credit: 5

Quality Point Group: II

Open to Grades: 10, 11, 12

Prerequisite: Audition Required

FNA 401 Honors Art

The student in Honors Art concentrates on building a portfolio and exploring career opportunities in art. Honors Art is a performance course that helps the student refine his/her skills in the areas of design, composition, drawing, painting, sculpture, and computer graphics. Only original works that complete the student's portfolio over the course of the year are accepted. Audio-visual presentations and lectures on art history and appreciation complement

studio projects.

The Art and Guidance departments cooperate to ensure that each student is informed of career and educational opportunities in the art field. Student activities include attending open houses and other art events at colleges and universities, visiting museums and craft shows, and presenting their works in exhibitions such as the Sussex County Teen Arts Festival.

Credit: 5

Quality Point Group: II

Open to Grades: 12

Prerequisite: Completion of previous course in Art sequence or demonstration of competency and instructor permission.

FNA 402 Honors Select Chorus

This course is recommended for those students considering a career in music and/or those interested in singing at the university level. Students will perform college level music based on the madrigal choir curriculum of both Westminster Choir College and St. Olaf's College. With an emphasis on proper vocal technique and production, the course provides an in depth study of various musical styles from the Renaissance through contemporary musical theatre. As musical ambassadors, the Select Chorus will perform for school concerts, liturgies, assemblies and many community venues.

Credit: 5

Quality Point Group: II

Open to Grades: 10,11,12

Prerequisite: Audition Required

FNA 403 Graphic Design

Graphic Design is an introductory course for students interested in exploring visual arts on the computer. The course focuses on learning basic design theories while creating several "real world" projects, including business cards, logos, promotional and marketing materials, as well as original digital illustrations using Illustrator. Students use Photoshop software to digitally manipulate photographs and images, and they design, build, furnish, and landscape a house for the architectural segment. All work is created on a MAC computer.

Credit: 5

Quality Point Group: I

Open to Grades: 11,12 Prerequisite: None

FNA 404 Theatre Arts

Theatre Arts is a yearlong survey course that examines the history and artistic development of American theatre. With a focus on Broadway success stories, the students will perform quality plays and musicals as well as monologues and group dialogues; they will also enter competitions, write their own scripts, and view regional and Broadway Theatre productions. This course will not only enhance a student's understanding and enjoyment of theatre but will also

provide instruction in technical theatre, including set, sound, and lighting design, costuming and makeup, as well as the progression of diction, tone and other public speaking skills.

Credit: 5

Quality Point Group: I

Open to Grades: 9,10,11,12

Prerequisite: None

FNA 405 Introduction to Guitar

AN introductory course to guitar, focused on music reading skills and classical guitar technique.

The goal of this class is to introduce students to basic music theory and transfer that to guitar playing. Focus will be on the classical style, but will also go into rock/pop/chords.

Credit: 5

Quality Point Group: I

Open to Grades: 9,10,11,12

Prerequisite: None, but knowledge of reading music will be helpful

Health/ Physical Education

Philosophy

The health and physical education curriculum at Pope John XXIII High School gives each student an opportunity to develop athletic skills and to improve and maintain his/her level of physical fitness through exercise and nutrition; the course also prepares students to operate a motor vehicle safely and to administer basic emergency first aid care.

Health/Physical Education Faculty:

Mr. Joseph Lopez, Department Chair *

Mrs. Ashley DiGidio

Mr. Brian Eyer**

Mr. Greg Appelton

* Red Cross Certified Instructor.

** Driver's Education Certified Instructor

HPE 8 Health/Physical Education 8

With emphases on skills, rules, team play, and sportsmanship, the 8th grade Physical Education curriculum introduces students to a variety of physical activities and sports, including badminton, soccer, and softball. The class meets 3 times per week.

Credit: 3

Open to Grades: 8

Prerequisite: None. Course runs concurrently with Study Skills (3 days Physical Education/ 2 days Study Skills)

HPE 100 Health/Physical Education 9

With emphases on motor skills and physical fitness, team play, leadership, cooperation, and sportsmanship, this course introduces students to a variety of physical activities and sports. The course is divided into two quarters of Physical Education and two of Health.

Credit: 5

Quality Point Group: I

Open to Grades: 9

Prerequisite: None

HPE 200 Health/Physical Education 10

Physical Education 10 builds on the freshman curriculum by emphasizing rules, techniques, and team play strategies and enhancing individual skills. The health component includes First Aid, CPR, Nutrition and Drivers Education. All students take the state drivers ed. exam at the conclusion of the class. The course is divided into two quarters of Physical Education and two of Health.

Credit: 5

Quality Point Group: I
Open to Grades: 10
Prerequisite: HPE 100

NOTE: Students will not receive Health/Physical Education credit unless they pass the yearly Health unit.

Note: ONLY Juniors and seniors with a minimum CUMULATIVE GPA of 3.0 may opt to take a course in lieu of HPE 300/400.

HPE 300/400 Health/Physical Education 11/12

Physical Education 11/12 continues to encourage and enhance participation in individual and lifetime sports. The course also places greater emphasis on leadership, confidence, and fitness.

Credit: 5
Quality Point Group: I
Open to Grades: 11, 12
Prerequisite: HPE 200

HPE 303 Exercise Science

Students will examine the relationship between exercise and human performance and the importance of physical activity to maintaining a healthy lifestyle. Exercise science includes biomechanics, exercise physiology and biochemistry, growth and development, exercise nutrition, measurement and evaluation, and exercise psychology. The course is designed to provide an effective blend of classroom instruction and practical experience.

Note: Students taking exercise science are expected to participate in some physical activity.

Credit: 5
Quality Point Group: I
Open to Grades: 11, 12
Prerequisite: Minimum cumulative GPA of 3.0

Mathematics

Philosophy

The Mathematics Department of Pope John XXIII High School offers a flexible curriculum to meet the needs of a diverse student body. Each student advances according to his/her goals and demonstrated ability. Emphasis on the five general goals of the National Council of Teachers of Mathematics encourages students to value mathematics, grow confident in their ability to solve problems, and learn to communicate and reason mathematically.

Mathematics Department Faculty:

Mr. Richard Ferrise, Department Chair

Mr. Brian Corcoran

Mr. Joseph Giovannone

Mrs. Donna Keller

Mrs. Margaret Maneri

Mr. Richard Murphy

Mrs. Jessica Rosario

Mr. Bruce Shuert

Mrs. Diane Stankiewicz

Mrs. Belinda Toma

NOTE: The prime criterion for placement in the 8th grade courses Honors Algebra I (MAT802), Algebra I/Accelerated (MAT801), and Pre-Algebra (MAT800) is performance on the Pope John Math Placement Test for 8th Graders. Other criteria (when available) will include performance in 7th grade, 7th grade teacher recommendations, and Terra Nova scores.

MAT 800 Pre-Algebra (8TH Grade)

A full-year course that provides a transition from the arithmetic of elementary school to the algebra of high school, Pre-Algebra offers students additional time and opportunity to master basics that are critical to success in higher-level mathematics. In addition, students will learn the building blocks of algebra through topics such as solving equations, exponents, and polynomial operations.

Credit: 5

Open to Grades: 8

Prerequisite: See Note

MAT 801 Algebra 1/Accelerated (8th Grade)

Algebra 1 Accelerated is a comprehensive algebra 1 course. Topics covered at an accelerated pace include solving and graphing linear equations and inequalities, mathematical operations with exponents and polynomials, factoring polynomials, as well as graphing and understanding quadratic functions and equations. There is a strong emphasis on problem solving skills throughout the course and a unit dedicated to word problems. This course is identical to 9th grade Algebra I/Accelerated (MAT 101).

Credit: 5

Open to Grades: 8

Prerequisite: See Note

MAT 802 Honors Algebra 1 (8th Grade)

Designed for students whose placement exams demonstrate their superior ability in mathematics, the course covers the topics in Algebra I/Accelerated with a stronger emphasis on problem solving and critical thinking. The computational level is more demanding, and the course includes a deeper and more challenging exploration of applications and algebraic modeling, factoring and radicals, and quadratic functions. This course is identical to 9th grade Honors Algebra I (MAT 102).

Credit: 5

Open to Grades: 8

Prerequisite: See Note

MAT 100 Algebra I

Designed to ease the transition from the concrete concepts of arithmetic to the abstract concepts of algebra, this first course in Algebra focuses on fundamental mathematical skills and introductory algebraic concepts. Topics include signed integers; greatest common factor and least common multiple; fractions, decimals, and percents; linear equations; word problems; scientific notation; geometric applications; and radicals. Students earning 90 or higher in this course can progress to Algebra I/Accelerated in their sophomore year; students earning a passing grade less than 90 will progress to Geometry.

Credit: 5

Quality Point Group: I

Open to Grades: 9, 10, 11

Prerequisite: For Pope John 8th graders, a final grade of less than 77 in 8th grade Pre-Algebra-A (MAT 800A) OR final grade of less than 93 in 8th grade Pre-Algebra-B (MAT 800B). Students entering Pope John as 9th graders must take a placement test.

MAT 101 Algebra I/Accelerated

Algebra 1 Accelerated is a comprehensive algebra 1 course. Topics are covered at an accelerated pace and include solving and graphing linear equations and inequalities, mathematical operations with exponents and polynomials, factoring polynomials, as well as graphing and understanding quadratic functions and equations. There is a strong emphasis on problem solving skills throughout the course and a unit dedicated to word problems.

Credit: 5

Quality Point Group: I

Open to Grades: 9, 10, 11

Prerequisite: Final grade of 90 or better in Algebra I (MAT 100). For Pope John 8th graders, a final grade of 77 or better in 8th grade Pre-Algebra-A (MAT 800A) OR final grade of 93 or better in 8th grade Pre-Algebra-B (MAT 800B) OR final grade of less than 85 in 8th grade Algebra I Accelerated (MAT 801) OR final grade of less than 77 in 8th grade Honors Algebra 1 (MAT802). Students entering Pope John as 9th graders must take a placement test.

MAT 102 Honors Algebra I

Designed for students whose placement exams demonstrate their superior ability in mathematics, the course covers the topics in Algebra I/Accelerated with a stronger emphasis on problem solving and critical thinking. The computational level is more demanding, and the course includes more work with applications and algebraic modeling, more challenging coverage of factoring and radicals, and a deeper exploration of quadratic functions.

Credit: 5

Quality Point Group: II

Open to Grades: 9, 10, 11

Prerequisite: For Pope John 8th graders, a final grade of 93 or better in 8th grade Algebra I/Accelerated. Students entering Pope John as 9th graders must take a placement test.

MAT 200 Geometry

This course in plane geometry places more emphasis on logical reasoning and critical thinking skills. Students are taught a system of geometric definitions, theorems, and postulates using algebraic principles, constructions, and other manipulative techniques. Topics include parallel and perpendicular lines, polygons, properties of triangles and triangle congruence, coordinate plane geometry, and an introduction to right triangle trigonometry. There is a strong emphasis on the review of algebraic concepts throughout the course.

Credit: 5

Quality Point Group: I

Open to Grades: 9, 10, 11, 12

Prerequisite: Final grade of less than 90 in Algebra I OR less than 77 in Algebra I/Accelerated

MAT 201 Geometry/Accelerated

Covering all the topics of Geometry (MAT 200) but at an accelerated pace, this course in plane geometry is a deeper and more comprehensive study of the elements of analytic and solid geometry, including formal proofs, right triangle trigonometry, transformations, and geometry in a coordinate plane. Facility with a scientific calculator is necessary.

Credit: 5

Quality Point Group: I

Open to Grades: 9, 10, 11, 12

Prerequisite: Final grade of 77 or better in Algebra I/ Accelerated (MAT 101) OR a final grade of less than 85 in Honors Algebra I (MAT 102) OR final grade of 85 or better in 8th grade Algebra I/Accelerated (MAT 801) OR final grade between 77 and 84 in 8th grade Honors Algebra I (MAT 802).

MAT 202 Honors Geometry

This advanced Geometry course is designed for students who have demonstrated superior ability in mathematics, and specifically, mastery of Algebra 1. Taught in an investigative, critical thinking style, the course covers all topics in Accelerated Geometry (MAT 201) but with a strong emphasis on deductive and inductive reasoning, development of formal proofs, visualization,

problem solving, and algebraic approaches to prove theorems and solve geometric problems in a coordinate plane.

Credit: 5

Quality Point Group: II

Open to Grades: 9, 10, 11, 12

Prerequisite: Final grade of 85 or better in Honors Algebra I OR 93 or better in Algebra I/ Accelerated. For students entering Pope John as 9th graders, satisfactory performance on the Math Department's Honors Geometry Placement Test, administered at Pope John in May of their 8th grade year, is required.

Please note that ninth grade students wishing to take Honors Geometry must complete a full year course in Algebra I with an 85 or above average and also demonstrate competency on the Honors Geometry Placement Test.

MAT 300 Algebra II

Algebra II further develops the concepts taught in Algebra 1 and then advances to the study of functions, linear equations and inequalities, systems of linear equations, polynomial operations, rational expressions, irrational and complex numbers, quadratic equations, exponential and logarithmic functions, and basic probability and statistics. Additionally, some time will be devoted to SAT and ACT preparation.

Credit: 5

Quality Point Group: I

Open to Grades: 10, 11, 12

Prerequisite: Final grade of 65 or better in Geometry.

MAT 301 Algebra II/Accelerated

Algebra II/Accelerated begins with a review of the materials taught in Algebra 1/Accelerated and then progresses to more advanced algebraic concepts. There is a strong emphasis on functions including quadratic, polynomial, exponential, logarithmic, rational, radical and piecewise functions as well as a unit on function transformation and probability.

Credit: 5

Quality Point Group: I

Open to Grades: 10, 11, 12

Prerequisite: Final grade of less than 85 in Honors Algebra I and Honors Geometry OR a final grade of 70 or better in Geometry/Accelerated and 77 or better in Algebra I/Accelerated.

Requirement: TI 83+/TI 84+ graphing calculator

MAT 302 Honors Algebra II

Designed to extend and further develop the concepts and theories introduced in Algebra 1, Algebra II Accelerated places a stronger emphasis on problem solving and critical thinking. The computational level and pace is more demanding, and the course is extended to cover conics, sequences and series, and an introduction to trigonometry.

Credit: 5

Quality Point Group: II

Open to Grades: 10, 11, 12

Prerequisite: Final grade of 85 or better in Honors Geometry OR 93 or better in Algebra I/Accelerated and Geometry/Accelerated.

Requirement: TI-83+/TI-84+ graphing calculator.

NOTE: Students may elect to take both Honors Geometry and Honors Algebra II during their sophomore year. The prerequisite for this option is a minimum of 85 in Honors Algebra I. Other doubling-up combinations involving accelerated and honors Geometry and Algebra II are also available with Department Chair approval.

MAT 303 Pre-Calculus

This course is recommended for students who may be interested in studying mathematics in college, either as a major or in an allied science field. Pre-Calculus includes college algebra, trigonometric, exponential and logarithmic functions and their applications.

Credit: 5

Quality Point Group: I

Open to Grades: 11, 12

Prerequisite: Final grade of 77 – 84 in Honors Algebra II OR 85 or better in Algebra II/Accelerated.

Requirement: TI 83+/TI 84+ graphing calculator

MAT 304 Honors Pre-Calculus

Honors Pre-Calculus integrates the major concepts and technology required for Calculus. The curriculum covers functions, modeling change, exponential and logarithmic functions, trigonometry, combinations, and a brief introduction to Calculus.

Credit: 5

Quality Point Group: II

Open to Grades: 11, 12

Prerequisite: Final grade of 85 or better in Honors Algebra II OR 93 or better in Algebra II/Accelerated and Geometry Accelerated.

Requirement: TI 83+/TI 84+ graphing calculator

MAT 401 Financial Algebra

A college-preparatory course that provides students with the practical tools to understand financial markets, transactions and related economic topics, Financial Algebra employs algebra, concepts and methods of probability and statistics, and geometry to solve “real

world” financial problems, such as investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting, and planning for retirement. This course is available to only students who do not qualify for Statistics.

Credit: 5

Quality Point Group: I

Open to Grades: 12

Prerequisite: Final grade of 70 or better in Algebra II OR less than 77 Algebra II/Accelerated

Requirement: TI 83+/TI 84+ graphing calculator

MAT 402 Statistics

This course serves as an introduction to applied statistics. Descriptive and inferential uses of statistics in reference to business, the social and behavioral sciences, and the natural and physical sciences will be discussed. Topics covered include organization of data, measures of central tendency and dispersion, probability, sampling, elementary hypothesis testing, and correlation and prediction. Microsoft Excel is used extensively.

Credit: 5

Quality Point Group: I

Open to Grades: 11, 12

Prerequisite: Final grade of 70 or better in Pre-Calculus, Honors Pre-Calculus, or Honors Algebra II, OR 77 or better in Algebra II or Algebra II/Accelerated

Requirement: TI-83+/TI-84+ Graphing Calculator

MAT 403 Calculus

In Calculus, the mathematical language of change, topics include limits, derivatives, and integrals. Major concepts are introduced through data, applications, mathematical modeling, and technology.

Credit: 5

Quality Point Group: I

Open to Grades: 12

Prerequisite: Final grade of 77 or better in Honors Pre-Calculus OR 85 or better in Pre-Calculus.

Requirement: TI-83+/TI-84+ Graphing Calculator

MAT 501 Advanced Placement Statistics

AP Statistics is a college level course in statistics that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to the four broad conceptual themes: exploring data; sampling and experimentation through planning and conducting a study; anticipating patterns through exploring random phenomena using probability and simulation; and statistical inference through estimating population parameters and testing hypotheses. Students who successfully complete the course and AP exam may qualify for college placement and earn credit for an introductory college statistics course.

Credit: 5

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 93 or better in Pre-Calculus OR 85 or better in Honors Pre-Calculus OR 85 or better in Honors Algebra II OR 93 or better in Algebra II/Accelerated, AND final grade of 85 or better in English II or III. AP Statistics may be taken concurrently with, but not as a replacement for, Calculus, AP Calculus AB or AP Calculus BC.

Requirement: TI-83+/TI-84+ Graphing Calculator

MAT 502 Advanced Placement Calculus - AB

AP Calculus is designed as a college level course. The course begins with a brief review of Pre-Calculus and progresses to the study of limits and continuity of functions, the derivative and its applications, the definite integral and its applications, and some basics of differential equations.

Credit: 5

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 85 or better in Honors Pre-Calculus OR 93 or better in Calculus.

Requirement: TI-83+/TI-84+ Graphing Calculator

MAT 503 Advanced Placement Calculus - BC

AP Calculus BC is a full year, college level course in the calculus of functions of a single variable. The course covers all topics presented in Calculus AB, some in greater depth, plus topics primarily related to polynomial approximations and series, improper integrals, and vector, parametric and polar functions. The BC course is designed to qualify the student for college placement and credit that is one course beyond that granted for AB.

Credit: 5

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 93 or better in Honors Pre-Calculus.

Requirement: TI-83+/TI-84+ Graphing Calculator

MAT 504 Discrete Math

Discrete Mathematics, when offered, is an introduction to the foundations for advanced studies in mathematics and computer science. Students will be introduced to the basics of mathematical terminology and abstract reasoning. Topics include logic, number theory, methods of mathematical proof, set theory, functions and relations, and probability.

Credit: 5

Quality Point Group: II

Open to Grades: 11, 12

Course Prerequisites: Final Grade of 85 or better in Honors Pre-Calculus

MAT 601 Multivariate Calculus

Multivariate Calculus, when offered, is an elective course for our most gifted and talented students who have a strong interest in mathematics. Many of the ideas of elementary calculus in the plane generalize naturally to space by extending to three dimensions, whereas other concepts will be new to the student. Topics include partial derivatives, vector valued functions, multiple integrals, vector calculus, differential equations, and relevant applications. Students will recognize the fundamental multivariate calculus plays in all of science and engineering and will gain a new appreciation for the achievement of higher mathematics.

Credit: 5

Quality Point Group: II

Open to Grades: 12

Prerequisite: Final grade of 85 or better in AP Calculus BC and passing grade on the AP Calculus BC exam

Requirement: TI-83+/TI-84+ Graphing Calculator

Science

Philosophy

The science department meets the most rigorous core content standards by developing critical thinking skills, promoting creativity, and helping students connect scientific phenomena to real world issues. Through “hands-on, minds-on” learning opportunities in all scientific disciplines, students master concepts using technology, laboratory activities, peer collaboration, and long-term projects.

Science Department Faculty:

Mrs. Patricia Olsen, Department Chair

Mrs. Kristine Carollo

Mrs. Christine Dunbar

Mrs. Yolande Fitzgerald

Mrs. Amy Ingogli

Mrs. Judith Loff

Mrs. Fabiana Lynch

Mr. James Jerrell

Mr. Frank Setlock

Mr. David Wilson

SCI 8 Physical Science

Physical Science is an introductory course to the study of chemistry and physics. Chemistry, the study of the properties, classes, and structure of matter and its changes, includes topics such as the periodic table of elements, atomic structure, molecules, solutions, and chemical reactions. Physics is the study of the interrelationships of matter and energy, including the study of motion, electricity, sound, and heat.

This physical science course uses a hands-on approach to exploring the general principles of physical science. Using the text and lab activities, students study forces, machines, motion, energy, electricity, magnetism, sound and light. Students will also study general chemistry concepts including the structure of matter, the periodic table, chemical bonds and reactions, and mixtures and compounds. Throughout this course, students discover the relationship between science and daily life and gain a firm understanding of the scientific method by working through carefully planned experiments. Lab activities are supplemented by carefully chosen POGIL (Process Oriented Guided Inquiry Learning) and STEM activities.

Credit: 5

Open to Grades: 8

SCI 8-H-1 Honors Physical Science

The Honors Physical Science course explores the foundational principles of chemistry and physics. Using the text and lab activities, students study forces, machines, motion, energy, electricity, magnetism, sound, light, fluid dynamics, density and buoyancy. Students will also study general chemistry concepts, including the structure of matter, the periodic table, chemical

bonds and reactions, mixtures and compounds, and organic chemistry. Math skills are stressed, e.g., graphical analysis of experimental data.

Throughout this course, students will use Process Oriented Guided Inquiry Learning (POGIL) and carefully selected STEM exercises and activities, which focus on core concepts and encourage deep understanding while developing higher-order thinking skills such as critical thinking, problem solving, and communication through cooperation and reflection (helping).

Credit: 6

Open to Grades: 8

Prerequisite: Placement test

SCI 201 Biology

The study of biology includes biochemistry, cellular biology, the role of genetics in determining organisms' structural and functional roles, the evolutionary relationship among invertebrates and vertebrates, and animal anatomy and physiology. Technology-enhanced, student-centered instruction and inquiry-based laboratory experiments and dissections (earthworm, perch, fetal pig) teach students the nature of life. The course includes a weekly, eighty-minute laboratory period.

Credit: 6

Quality Point Group: I

Open to Grades: 9, 10

Prerequisite: None

SCI 202 Honors Biology

An accelerated biology course, Honors Biology follows the same course of study as General Biology but in greater depth. The study of biology includes biochemistry, cellular biology, genetics, biological relationships between structure and function, and evolutionary relationships amongst organisms. Technology-enhanced, student-centered instruction and inquiry-based laboratory experiments will complement the learning environment. This course includes a weekly, eighty-minute laboratory period.

Credit: 6

Quality Point Group: II

Open to Grades: 9, 10

Prerequisite: Pope John 8th graders must have a 90 average in Honors Physical Science or a 95 average in Physical Science. Students entering Pope John as 9th graders must take a placement test.

SCI 300 Conceptual Chemistry

The Conceptual Chemistry course emphasizes the importance of chemistry in students' personal and professional lives, provides them with a lifelong awareness of the potentials and limitations of science and technology, and prepares them to make informed decisions. The curriculum includes fundamentals of chemistry, its role in technology and society, and laboratory activities that reinforce concepts and skills.

Credit: 6

Quality Point Group: I

Open to Grades: 10,11,12

Prerequisite: Concurrent enrollment in Algebra II or Geometry.

SCI 301 Chemistry

This course is designed to satisfy the secondary science chemistry requirement for students planning studies in the science or health fields. Through comprehensive laboratory study, the student explores the laws and theories of chemistry, the use of chemical calculations, and the nature of chemical reactions. Topics include the metric system, atomic structure, the periodic table, chemical formulae, chemical equations, stoichiometric relations, gas laws, molecular structures, and bonding. Interested students must demonstrate skill in solving equations.

Credit: 6

Quality Point Group: I

Open to Grades: 10,11,12

Prerequisite: Final grade of 65 in Biology. Concurrent enrollment in Algebra II Accelerated or Geometry Accelerated

SCI 302 Honors Chemistry

An accelerated chemistry course offered to students who have demonstrated an aptitude for science, Honors Chemistry follows the same course of study as General Chemistry but in greater depth. Students must demonstrate the ability to study independently as well as strong analytical and mathematical skills.

Credit: 6

Quality Point Group: II

Open to Grades: 10,11,12

Prerequisite: Final grade of at least 85 in Honors Biology or 93 in Biology. Concurrent enrollment in an honors level Math course.

SCI 304 Environmental Science

This lab course presents a comprehensive overview of critical environmental issues, both current and future. Given the broad scope of environmental problems, the course's interdisciplinary approach addresses ecology, geology, atmospheric science, biology, chemistry, law, economics, and ethics. Ultimately, the student will recognize the vital role humans play in determining our environment's destiny.

Credit: 5

Quality Point Group: I

Open to Grades: 11,12

Prerequisite: Final grade of 65 in Biology & Chemistry.

SCI 306 Anatomy and Physiology

The Anatomy and Physiology course is a thorough and detailed study of the relationships between the structure and form of the human body and the chemical/physical processes that allow it to function. Students will understand the structure and function of various organ systems as well as their relation to specific disorders. Laboratory exercises will include dissection.

Credit: 6

Quality Point Group: I

Open to Grades: 11,12

Prerequisite: Final grade of 73 in both Biology and Chemistry.

SCI 307 Forensic Science

Forensic Science offers a thorough and detailed study of forensic techniques used by crime laboratories and private examiners. Students will explore key cases and “real world” applications of techniques in criminal and civil cases. By nature lab intensive, Forensic Science requires students to perform many scientific procedures.

Credit: 6

Quality Point Group: I

Open to Grades: 11,12

Prerequisite: Final grade of 73 in Biology, Chemistry and Physics or concurrent enrollment in Physics.

SCI 308 Honors Robotics I

Robotics is a multidisciplinary field of study that includes software engineering, mechanical engineering, electronic circuit design, wireless communications, power systems design, sensor systems, feedback loops and systems theory (cybernetics), esthetics, ergonomics, and more. Students will learn how to build and program robotic mechanisms through a series of hands-on projects supplemented by theoretical discussions. The students are considered engineers and therefore use actual industry techniques for major projects, such as brainstorming solutions, documenting design criteria, using use cases and requirements, and dividing tasks among team members (“scrum” sessions). Students will understand the role of an engineer by designing and building a product using robotic mechanisms and programming techniques.

Credit: 5

Quality Point Group: II

Open to Grades: 10,11,12

Prerequisite: Minimum 85 in Honors Geometry and 85 in Principles of Engineering

SCI 309 Honors Zoology

Honors Zoology provides a college level introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Laboratory exercises including microscopic observations and dissections reinforce topics discussed in class lecture.

Credit: 6

Quality Point Group: II

Open to Grades: 11,12

Prerequisite: Final grade of 85 in Honors Biology and Honors Chemistry or final grade of 93 in Regular Biology and Regular Chemistry.

SCI 310 Principles of Engineering and Design Tech

This course is a precursor to Honors Robotics. It will examine basic mechanics, which includes an analysis of simple machines and various projects associated with them. Students will analyze lever, pulley, screw, wedge, wheel and axle and inclined plane and their applications into basic mechanisms. Other topics include the analysis of electric motors where students will learn how to use a CAD system to design various objects to be 3d printed and used in future projects. In addition, students will learn to code with the intent of using a microprocessor. Data will be collected from various sensors and dealt with by a microprocessor.

Credit: 5

Quality Point Group: I

Open to Grades: 10,11,12

Prerequisite: Final grade of 77 in Biology or Chemistry

SCI 400 Conceptual Physics

Using mathematics at the conceptual Algebraic level, this course presents physics and related physical science topics in a highly concrete, interdisciplinary manner. Topics explored include scientific method, matter, energy, motion, simple machines, sound, light, and electricity, as well as relevant topics in physics technology. The course will include laboratory and decision-making activities to reinforce concepts and skills, stress technological and societal issues, and encourage real-world applications.

Credit: 6

Quality Point Group: I

Open to Grades: 11,12

Prerequisite: Final grade of 65 in Conceptual Chemistry or Chemistry. Concurrent enrollment in or completion of Algebra II.

SCI 401 Physics

A survey of the fundamental laws of Physics, this course covers mechanics, kinematics, energy, thermal power, fluids, electricity, and wave motion. Weekly laboratory experiments supplement theoretical study.

Credit: 6

Quality Point Group: I

Open to Grades: 11,12

Prerequisite: Final grade of 65 in Chemistry and enrollment in or completion of Algebra II Accelerated.

SCI 402 Honors Physics

This laboratory course will follow an ambitious curriculum equivalent to a first year college, non-calculus based Physics course. Students will study in detail the fundamental laws and underlying theories of Physics. Topics covered include mechanics, kinematics, kinetic theory, electricity and magnetism, and quantum mechanics. Laboratory experiments will be conducted weekly to supplement theoretical study.

Credit: 6

Quality Point Group: I

Open to Grades: 11, 12

Prerequisite: Grade of at least 85 in Honors Chemistry or 93 in Chemistry.

Prerequisite: Enrollment in any of the following math courses: Honors Algebra II, Honors Pre-Calculus, AP Calculus, Pre-Calculus or Calculus.

SCI 501 Advanced Placement Biology

Advanced Placement Biology is the equivalent of a first year college general biology class. Focusing on all organisms' biological processes, the course's main topics – molecules and cells, heredity and evolution, and organisms and populations--will be used to explore eight major themes: science as a process, evolution, energy transfer, continuity and change, relationship of structure and function, regulation, interdependence in nature, science, and technology and society. Students taking this course are required to sit for the Advanced Placement Biology examination at the end of the school year.

Credit: 6

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 90 in Honors Biology or 95 in Biology.

SCI 502 Advanced Placement Chemistry

Advanced Placement Chemistry is the equivalent of a first year college general chemistry class and is therefore recommended for those students planning college studies in engineering or the physical sciences. The course is designed to provide the advanced science student with a deeper and more diverse background in chemistry, laboratory skills, and scientific reasoning skills. Topics covered include nuclear chemistry, solution stoichiometry, oxidation-reduction, acid-base, colligative properties, electrochemistry, equilibrium, chemical kinetics, and chemical thermodynamics. Special emphasis will be placed upon chemical calculations. Students taking this course are required to sit for the Advanced Placement Chemistry examination at the end of the school year.

Credit: 6

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 90 in Honors Chemistry or 95 in Chemistry.

SCI 504 Advanced Placement Environmental Science

The Advanced Placement Environmental Science course is designed as the equivalent of an

introductory college course in environmental science. Students learn the scientific principles, concepts, and methodologies necessary to understand the interrelationships of the natural world, to identify and analyze environmental problems--both natural and man-made—to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. AP Environmental Science is interdisciplinary, embracing a wide variety of disciplines, including earth science, biology, chemistry, physics, and geography. Students taking this course are required to sit for the AP Environmental Science exam at the end of the school year.

Credit: 6

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 90 in Honors Biology or 95 in Biology. Final grade of 90 in Honors Chemistry or a 95 in Chemistry. Final grade of 77 in Algebra II Accelerated.

SCI 510 Advanced Placement Physics I

This algebra-based course provides students with an enduring, conceptual understanding of foundational physics principles by investigating major ideas and science practices in an introductory college-level sequence. Topics include objects and systems, fields, forces, system changes, conservation laws, energy and momentum, kinetics Newton's laws of motion, torque, rotational motion and angular momentum, gravitation and circular motion, work, energy, and power, linear momentum, oscillations, mechanical waves and sound, and introduction to electric circuits. Students taking this course are required to sit for the AP Physics exam at the end of the school year.

Credit: 6

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 93 in Honors Chemistry and 93 in Honors Algebra II (or concurrent enrollment in Honors Algebra II). OR Final grade of 93 in Honors Physics and 93 in Honors Algebra II.

SCI 512 Advanced Placement Physics C, Mechanics and E&M

AP Physics C (Mechanics) is designed for college-bound students with high-level critical thinking skills who plan to study advanced sciences, applied sciences, and engineering. The course provides a systematic study of mechanics, statics, dynamics, and momentum energy. Calculus based, the course entails problem-solving, hands-on activities, and computer-based labs. Students taking this course are required to sit for the AP Physics C exam at the end of the school year.

Credit: 6

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Grade of 93 in AP Physics 1 and 93 in Honors Pre-Calculus and concurrent enrollment in AP Calculus AB or BC.

Social Studies

Philosophy

The social studies department familiarizes students with democratic institutions as well as competing or conflicting ideologies. Since modern citizens must be locally, nationally, and globally informed, students learn to analyze complex, often controversial issues, and to recognize their potential influence on and responsibility for our global society. Our goal is to create an appreciation for diversity and a foundation for world peace.

Social Studies Department Faculty:

Mr. Thomas Morro, Department Chair

Dr. Jeffrey Bond

Mrs. Jacquelyn Burt

Mr. Brad Cameron

Mr. Christopher Hoffman

Mr. William Livingston

Mrs. Laurie Lynch

Mr. Michael Schleer

Mrs. Christine Rotondo

Mr. Brian St. John

Mrs. Sharon Zuckerman

SOC 8 Social Studies

The Foundations Social Studies course is designed to introduce students to the historical reasoning skills (HRS) and analytical skills needed to successfully complete an AP level history or social science class. The following themes covering the period from 1491 to the present will be explored: American and national identity; politics and power; work, exchange, and technology; culture and society; migration and settlement; geography and environment; and America in the world. Students will engage in analytical reading, document based questions, content-relevant literature, independent note taking, group and individual research projects, timed writing in response to specific prompts, and interpreting graphs, charts, maps, and political cartoons. The following HRS will be stressed: chronological reasoning, comparison and contextualization, crafting historical arguments from historical evidence, and historical interpretation and synthesis. The analytical skills developed will include: using graphs, charts, and data to analyze, describe, and explain political, economic, and behavioral concepts.

Credit: 5

Quality Point Group: I

Open to Grade: 8

Prerequisite: None

SOC 8 Honors Foundation of US History

Credit: 5

Quality Point Group: II

Open to: Grade 8

Prerequisite: Enrollment based on placement testing

SOC 101 World Cultures

The Foundations Social Studies course is designed to introduce students to the historical reasoning skills (HRS) and analytical skills needed to successfully complete an AP level history or social science class. The following themes covering the period from 600 B.C.E. to the present will be explored: Technological and Environmental Transformations; Organization and Reorganization of Human Societies; Regional and Interregional Interactions; Global Interactions; Industrialization and Global Integration; and Accelerating Global Change and Realignments. Students will engage in analytical reading, document based questions, content-relevant literature, independent note taking, group and individual research projects, timed writing in response to specific prompts, and interpreting graphs, charts, maps, and political cartoons. The following HRS will be stressed: chronological reasoning, comparison and contextualization, crafting historical arguments from historical evidence, and historical interpretation and synthesis. The analytical skills developed will include: using graphs, charts, and data to analyze, describe, and explain political, economic, and behavioral concepts.

Credit: 5

Quality Point Group: I

Open to Grades: 9

Prerequisite: None

SOC 102 Honors World Cultures

The Honor World Cultures course is designed for students who have demonstrated superior performance in eighth grade. This course covers the core curriculum content areas from prehistory to the Post 9/11 world in great depth and at an accelerated pace. Using primary and secondary sources, students will master the critical reading and writing skills needed to excel in upper level history and social science classes. Students who wish to enroll must pass a departmental entrance examination.

Credit: 5

Quality Point Group: II

Open to Grades: 9

Prerequisite: Enrollment based on placement testing

SOC 103 World Cultures – The Big History Project

Where did everything come from? How did we get to where we are now? Where do humans fit in? Where are things heading? These are questions that origin stories of different cultures have addressed for thousands of years. Big History attempts to answer them by examining the entire past of the Universe using the best available ideas from disciplines such as astronomy, chemistry, biology, and history. Throughout the course, students will explore different scales of time and space and view human history from new angles. Students will learn what we know and what we don't know, consider our place in the Universe, and develop their own ideas of what the future may hold.

Credit: 5

Quality Point Group: I

Open to Grades: ESL or EFL students only
Prerequisite: None

SOC 201 United States History I

This course, a requirement for all 10th grade students, studies the history of the United States from its founding to the Reconstruction Era. The course is divided into four specific periods: Colonization to the American Revolution; the Constitution; Jefferson to Lincoln; the Civil War and Reconstruction.

Credit: 5
Quality Point Group: II
Open to Grades: 10
Prerequisite: None

SOC 202 Honors United States History I

Taught as a preparation for junior year Advanced Placement American History, Honors US I is open to all 10th grade students who demonstrate both the interest and ability to tackle an in-depth study of American History. The course spans the Colonial period to the Civil War, with an emphasis on the Revolutionary period, the Constitution, Jacksonian Democracy, Nationalism, the Civil War and Reconstruction. Students will engage in analytical reading, document based questions, content-relevant literature, independent note taking, group and individual research projects, timed writing in response to specific prompts, and interpreting graphs, charts, maps, and political cartoons. The following HRS will be stressed: chronological reasoning, comparison and contextualization, crafting historical arguments from historical evidence, and historical interpretation and synthesis. The analytical skills developed will include: using graphs, charts, and data to analyze, describe, and explain political, economic, and behavioral concepts.

Credit: 5
Quality Point Group: II
Open to Grades: 10
Prerequisite: Final grade of 83 in Honors World Cultures or final grade of 83 in AP World History or final grade of 93 in World Cultures

SOC 204 American Studies

This course in American Studies offers International Students a unique opportunity to examine change and continuity in American culture while simultaneously preparing them for the Test of English as a Foreign Language (TOEFL) examination. The American Studies for International Students course is designed especially for English as a Second Language (ESL) or English as Foreign Language (EFL) students. The *Voice of America* (VOA) Special English interactive website will provide students with substantive and practical materials in American Literature, history, grammar, vocabulary, idiom, listening, and pronunciation.

Credit: 5
Quality Point Group: I

Open to grades: ESL or EFL students only
Prerequisite: None

SOC 205 American Studies II

This course is a continuation of American Studies I for International Students. Its focus is on 20th Century United States history. *The Voice of America Learning English* program, *The Making of a Nation*, *American History in Special English* series continues to be used for course organization. Students will read and investigate historical novels, graphic novels, and primary source materials designed to reinforce historical content and to enhance student vocabulary and writing skills.

Credit: 5
Quality Point Group: I
Open to Grades: ESL or EFL students only
Prerequisite: American Studies I

301 United States History II

This course, a requirement for all 11th grade students, surveys the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. Topics examined will include industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Additionally, themes include consumer society, culture, religion, civil and human rights, technological change, economic change, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Credit: 5
Quality Point Group: I
Open to Grades: 11
Prerequisite: Final grade of 65 in US History I

SOC 302 Honors United States History II

This course is open to 11th grade students who wish to pursue an in-depth study of American History. Topics include United States history from the Age of Imperialism to modern times, with an emphasis on the Progressive era, the World Wars and their consequences (including the Holocaust, the Cold War, the rise of consumerism), the modern Civil Rights and Women's Movements, Vietnam, Watergate and its aftermath, and New Federalism. Using primary and secondary sources, students must demonstrate their critical thinking, reading, and writing skills.

Credit: 5
Quality Point Group: II
Open to Grades: 11
Prerequisite: Final grade of 83 in Honors United States History I or 93 in United States History I.

SOC 307 Honors Philosophy: The Quest for Truth

(Only offered in September of even years)

This course will first investigate the foundations of rational inquiry and discourse, and then introduce students to the study of the fundamental philosophical questions concerning nature, the soul, knowledge, perception, freedom and determinism, and the existence of God.

Credit: 5

Quality Point Group: II

Open to Grade: 10, 11, and 12

Prerequisites: Final grade of 83 in any Honors Social Studies course or 83 in any AP Social Studies course or 93 in Regular US History I and II, or US Government.

SOC 401 Global Issues

(Only offered in September of even years)

This elective course in Global Studies tackles the issues and challenges facing our increasingly global world. Through topics such as modern-day slavery, terrorism, refugee crises, genocide, effects of decolonization, world hunger, and health, students will learn how truly interconnected we are. Students will explore controversies as they unfold in the news and, through that exploration, will acquire a greater understanding of the roles played by governments and international organizations.

Credit: 5

Quality Point Group: I

Open to Grades: 10,11,12

Prerequisite: None.

SOC 402 Sociology and Psychology

The course begins with a survey of sociology: the study of culture, social structure, social institutions; the role of class, race, and gender in our society; the impact of inequality on people's lives; and finally, the impact of society on the individual. The psychology portion of the class covers learning, cognitive processes, and socialization: students will explore the connection between mind and body; various personality and psychological tests; and abnormal psychology and its relevant therapies. This course is designed to hone critical thinking and observation skills as well as to deepen the students' understanding of the world and themselves.

Credit: 5

Quality Point Group: I

Open to Grades: 11,12

Prerequisite: None.

SOC 403 United States Government

This course aims to create informed and active citizens by surveying the history and institutions of United States Federal Government, as well as the structure and function of the New Jersey State Government. Topics include the form and function of the United States and the New Jersey

Constitutional governments; economic and foreign policy; the Federal and State Court Systems; fundamental freedoms; civil rights; political parties; and the electoral process.

Credit: 5

Quality Point Group: I

Open to Grades: 11,12

Prerequisite: U.S. History I

SOC 404 Mass Media and Society

Given our media-driven society, students must learn how to analyze and evaluate all forms of communication and discuss the rights, responsibilities and interdependence of media in a diverse global society. The course surveys and assesses mass media in economic, historical, political, psychological, and sociological terms, with an emphasis on the power and significance of mass communications: books, newspapers, magazines, radio, television, motion pictures, the Internet, social media, and advertising.

Credit: 5

Quality Point Group: I

Open to Grades: 12

Prerequisite: None.

SOC 405 History of Great Trials

This course includes an in-depth historical survey of various legal systems and trial methods. Students will study noteworthy trials from Socrates to Saddam Hussein, as well as actual trial transcripts, Supreme Court opinions, forensic data, mock trials, and oral arguments.

Credit: 5

Quality Point Group: I

Open to Grades: 11, 12

Prerequisite: None.

SOC 407 Honors Political Philosophy: The Quest for Justice

(Only offered in September of odd years)

Through the careful reading and critical analysis of the greatest and most influential texts of the Western tradition, students in this course confront the perennial problems raised by the study of moral and political philosophy. In the first semester, students investigate the classical foundations of moral and political philosophy through a close analysis of Plato's dialogues and writings of Aristotle. Students then consider the ways in which St. Augustine and St. Thomas Aquinas—in keeping with the Catholic claim that faith perfects reason—sought to complete the teachings of Plato and Aristotle. In the second semester students examine and evaluate the revolutionary challenge that Machiavelli, Hobbes, Locke, Rousseau, and Madison posed to St. Augustine's and St. Thomas' grand synthesis of faith and reason. Finally, students analyze the Catholic response to the modern challenge as set forth in the papal encyclicals of Leo XIII.

Credit: 5

Quality Point Group: II

Open to Grades: 10,11, 12

Prerequisite: Final grade of 83 in any Honors History and Honors English class, or final grade of 83 in any AP History or AP English course, or final grade of 93 in any Regular History and English class.

SOC 408 International Conflicts, Crimes and Crises

(Only offered in September of odd years)

This course investigates current international conflicts, crimes, crises and their impacts on the international community. For example, natural disasters can exacerbate conflict in a war-torn region, and criminal activities such as human trafficking arise and are perpetuated by unstable conditions in devastated areas. Since we live in a global world that is increasingly interdependent, citizens of the world must develop an understanding of global matters and how they impact all of us.

Credit: 5

Quality Point Group: I

Open to Grades: 10,11, 12

Prerequisite: None.

SOC 500 Advanced Placement World History

AP World History is structured around the investigation of five course themes in six different chronological periods. Rather than simply collect and memorize facts, students must master key concepts for each historical period through the investigation of five overarching themes: (1) interaction between humans and the environment; (2) development and interaction of cultures; (3) state-building, expansion, and conflict; (4) creation, expansion, and interaction of economic systems; and (5) development and transformation of social structures. By focusing on these themes, students will develop historical thinking skills necessary to analyze change and continuity over time, identify global processes, compare and contrast societies, and explore the broad trends of world history. Students enrolled in the course are required to sit for the College Board Advanced Placement examination in World History. A satisfactory score on this examination can lead to college credit for the course.

Credit: 5

Quality Point Group: III

Open to Grades: 10, 11, 12

Prerequisite: For grades 10-12 a final grade of 87 in Honors World Cultures, Honors U.S. History I or II or a final grade of 97 in Regular World Cultures, U.S. History I or II.

SOC 501 Advanced Placement European History

AP European History is a comprehensive course tracing the development of European civilizations from the High Renaissance to the present. Major areas of concentration include the

political, social, economic, and diplomatic development of the European nations. The intellectual and cultural history of Europe is also addressed along with a study of European literature, arts, and music. Students enrolled in the course are required to sit for the College Board Advanced Placement examination in European History at the end of the school year. A satisfactory score on this examination may lead to college credit for the course.

Credit: 5

Quality Point Group: III

Open to Grades: 10, 11, 12

Prerequisite: Incoming 10th graders: an 83 in AP World History, or an 87 in Honors World Cultures, or a 97 in World Cultures.

Incoming 11th graders: an 83 in any AP Social Studies course, an 87 in Honors US History I, or a 97 in US History I.

Incoming 12th graders: an 83 in any AP Social Studies course, an 87 in Honors US History II, or a 97 in US History II.

SOC 502 Advanced Placement U.S. History

AP US provides an accelerated and detailed study of the American Republic from 1491 to the present. The course focuses on research, critical reading and writing, and analysis of primary historical sources. Students enrolled in the course are required to sit for the College Board Advanced Placement examination in American History in May. A satisfactory score on this examination may lead to college credit for the course.

Credit: 5

Quality Point Group: III

Open to Grades: 11

Prerequisite: Final grade of 87 in Honors US History I or 97 in US History I.

SOC 503 Advanced Placement U.S. Government

The AP course in U.S. Government and Politics expands students' understanding of America's government and current domestic and foreign policy agendas. AP Government also looks at hot topics such as free speech, assembly, religion, and the death penalty as well as current elections. The course requires familiarity with the various institutions, groups, beliefs, and ideas that constitute US politics. Topics include the Constitutional underpinnings of the United States' political beliefs and behaviors; political parties; interest groups; mass media; institutions of national government; public policy; and civil rights and civil liberties. Prerequisites for admission include 1) a brief persuasive essay that includes the student's motivations for selecting this course; and 2) a contract, signed by both the student and parent, acknowledging that summer course work and a community service project are mandatory for passing the course. The student must take the AP U.S. Government examination in May. A satisfactory score on this examination may lead to college credit for the course.

Credit: 5

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of an 83 in AP US History, or an 87 in Honors US History I, or a 97 in US History II.

SOC 503-A Advanced Placement Comparative Government and Politics

AP Comparative Government and Politics introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures and policies, and the political, economic, and social cultures of six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues. Students must take the AP Comparative Government examination in May. A satisfactory score on this examination may lead to college credit for the course.

Credit: 5

Quality Point Group: III

Open to Grades: 11,12.

Final grade of 83 in any AP Social Studies course, or an 87 in any Honors Social Studies course, or a 97 in US History I and II, or US Government.

SOC 506 Advanced Placement Psychology

The AP course in psychology introduces the systematic and scientific study of human and animal behavior and mental processes. Topics include the psychological facts, principles, and phenomena associated with each of psychology's major subfields and the ethics and methods used by psychologists in science and practice. Students enrolled in the course are required to sit for the College Board Advanced Placement examination in Psychology in May. A satisfactory score on this examination may lead to college credit for the course.

Credit: 5

Quality Point Group: III

Open to Grades: 11, 12

Prerequisite: Final grade of 80 in any AP Social Studies course, a final grade of 83 in Honors US History II, or a final grade of 93 in US History II or Sociology & Psychology.

SOC 507 Advanced Placement Human Geography

AP Human Geography introduces students to the systematic study of patterns and means that have shaped human understanding, use, and alteration of the earth's surface. Students will employ spatial concepts and use maps to define regions and interpret the connectedness of places. This course emphasizes cooperative learning by employing geographers' methods and tools. Students enrolled in the course are required to sit for the College Board Advanced Placement examination in Human Geography at the end of the school year. A satisfactory score on this examination may lead to college credit for the course.

Credit: 5

Quality Point Group: III

Open to Grades: 9, 10

Prerequisite: Incoming 9th graders: Satisfactory general placement test score, followed by a satisfactory specific prompt generated writing sample.

Incoming 10th graders: an 83 in AP World History, or an 87 in Honors World Cultures, or a 97 in World Cultures.

Incoming 11th and 12th graders: an 83 in any AP Social Studies course; or an 87 in Honors US History I or II, or an 87 in Honors World Cultures.

SOC 900 Freshman Cum Laude Seminar

Course description: This course offers freshman *cum laude* students an interdisciplinary introduction to the liberal arts based upon the works of the greatest minds of the Western tradition. In a seminar setting that focuses on the daily discussion of the Great Books, students will have the unique opportunity to integrate their study of the conventional academic disciplines of mathematics, science, politics, history, language, and literature. With both philosophy and theology providing the principle of unity, the Cum Laude Seminar seeks to inspire students to search the deep things of God as far as each is able by the lights of faith and reason—what Pope John Paul II called the “two wings on which the human spirit rises to the contemplation of truth”—that allow us to come to know God through His transcendental attributes of Truth, Goodness, and Beauty. The freshman Cum Laude Seminar, through the careful reading and analysis of texts by Homer, Aeschylus, Plato, Aristotle, Euclid, St. Thomas, Shakespeare, and Fabre, is concerned primarily with Truth, but at the same time seeks to develop intellectual habits of thought, speech, and written expression that are necessary for the profitable pursuit of every other discipline. Those students who successfully complete the first year of the Cum Laude Seminar will be invited to continue in their sophomore year and so on for each successive year.

Credit: 5

Prerequisite: Students are admitted upon Cum Laude designation or by a placement exam.

SOC 902 Sophomore Cum Laude Seminar

Course description: This course offers sophomore *cum laude* students an interdisciplinary introduction to the liberal arts based upon the works of the greatest minds of the Western tradition. In a seminar setting that focuses on the daily discussion of the Great Books, students will have the unique opportunity to integrate their study of the conventional academic disciplines of mathematics, science, politics, history, language, and literature. With both philosophy and theology providing the principle of unity, the Cum Laude Seminar seeks to inspire students to search the deep things of God as far as each is able by the lights of faith and reason—what Pope John Paul II called the “two wings on which the human spirit rises to the contemplation of truth”—that allow us to come to know God through His transcendental attributes of Truth, Goodness, and Beauty. The sophomore Cum Laude Seminar, through the careful reading and analysis of texts by Virgil, Sophocles, Plato, Aristotle, Boethius, and Shakespeare, is concerned primarily with Goodness, but at the same time seeks to develop intellectual habits of thought, speech, and written expression that are necessary for the profitable pursuit of every other discipline. Those students who successfully complete the second year of the Cum Laude Seminar will be invited to continue in their junior year and so on for each successive year.

Credit: 5

Theology

Philosophy

The Theology Department provides a developmentally appropriate, comprehensive, and systematic curriculum of Catholic beliefs to strengthen students' personal relationships with God, deepen their knowledge of the

Catholic faith, and integrate these beliefs and traditions into their lives. Topics include the purpose and meaning of faith in everyday life; the Sacred Scripture; covenant and salvation history; Church history; Catholic moral theology, particularly the Theology of the Body; an exploration of major world religions; and an understanding of life's purpose through vocation and the maturation of students' spirituality.

Theology Department Faculty

Ms. Brigette Hanley, Department Chair

Rev. Brian Ditullio

Ms. Pelagia Minsavage

Mr. Lee Imbriano

Mrs. Arlene Maresca

Mr. William Rosanelli

Fr. Ben Williams

Rev. Msgr. John Fitzpatrick

THE 8 Theology 8

This course deepens students' understanding of their lives as a Christian Catholic and member of the Church. Topics include the Trinity and our human identity as a reflection of the Blessed Trinity, the Blessed Mother, the Rosary and other Catholic prayer traditions, the Saints, the Sacraments, the Mass, the Corporal and Spiritual Works of Mercy, the Pascal Mystery, the Kingdom of God, the Two Great Commandments and an in-depth study of Church teaching on the Eucharist.

Credit: 5

Open to Grade: 8

Prerequisite: None

THE 110 Theology I: The Revelation of Jesus Christ in Scripture / Who Is Jesus Christ? – The Blessed Trinity

Theology I, an introduction to Catholic Christianity for freshmen, explores the meaning and purpose of religion in everyday life. As a general introduction, it leads students toward a deeper, more mature relationship with God and participation in Catholic life within the school and in the world at large. Students will learn about the Bible as the living word of God, Jesus Christ as God's ultimate Revelation, and the mystery of the Blessed Trinity and its implications for living the Christian life.

Credit: 5

Quality Point Group: I

Open to Grade: 9

Prerequisite: None

THE 210 Theology II: The Mission of Jesus Christ (The Paschal Mystery)/Jesus Christ's Mission Continues in the Church

This course focuses on all that God has done for humanity through his Son, Jesus Christ, and the redemption Christ won for us. Students will study the Church that was founded by Christ through the Apostles and sustained by him through the Holy Spirit, the Church as the living Body of Christ in both its divine and human elements, and what life as a disciple of Christ entails. Most importantly, the course poses the question, "Who is Jesus?" and attempts to answer it with an examination of His life, teaching, and ministry.

Credit: 5

Quality Point Group: I

Open to Grade: 10 Prerequisite: Theology I

THE 311 Junior Senior Theology I: Church History and World Religions
(Offered in September of even years)

This course includes units on the History of the Church, Inter-Religious Dialogue and Christian Call to Holiness. The first semester begins with the story of God's intervention into human history in the Person of his Son and continues through his Church to the present day. Students will come to a deeper understanding of the history of the Church.

A study of Ecumenism will help the students understand the manner in which the Catholic Church relates to other religions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church, the course is intended to help students recognize the ways in which important spiritual truths can also be found in other religions.

The second semester will help students understand vocations of life: how Christ calls us to live. In this course, students learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian Community.

Credit: 5

Quality Point Group: I

Open to Grade: 11/12

Prerequisite: Theology II

THE 411 Junior Senior Theology II: Moral Choices and Social Teachings
(Offered in September of odd years)

In the first semester students will study the Sacraments in depth and be introduced to the Moral life in Christ. Students will understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life. Students will learn the moral concepts and precepts that govern the lives of Christ's disciples as a response to living a Sacramental Life.

The second semester is a deepening of development of conscience in the moral life. This course aids the formation of consciences by presenting an overview of the moral teachings of the Catholic Church. This is followed by a study of Catholic social teaching. Students are to learn how Christ's concern for others, especially the poor and less fortunate, is present today in the Church's social teaching and mission.

Credit: 5

Quality Point Group: I

Open to Grade: 11/12

Prerequisite: Theology II

THE-INT Introduction to Christianity

Designed for international students with no prior basis of faith, this course provides the students with a basic understanding of Christianity. International students are placed in this class during their freshman and sophomore years and are then mainstreamed into regular Theology courses for junior and senior years.

Credit: 5

Quality Point Group: I

Open to Grades: 9, 10 International students

Prerequisite: None

World Language

Philosophy

The World Languages program immerses the student in the language, history, literature, and culture of foreign countries. Proficiency in the written and spoken language is stressed, as well as the inherent benefits of bi/multilingualism to intercultural understanding. Additionally, the study of languages enhances students' educational and career endeavors.

World Languages Department Faculty:

Mrs. Maryann Ross, Department Chair

Ms. Maria Poli

Mr. Michael Cibenko

Mrs. Sofia Partida

Mr. Patricio Quiroz

Mrs. Donna Romanick

Dr. Noah Stanzione

WLA 101 Spanish I

WLA 102 French I

WLA 103 German I

WLA 105 Italian I

The first level of language study integrates basic conversation and grammar skills with cultural studies.

Credit: 5

Quality Point Group: I

Open to Grades: 8,9,10,11,12

Prerequisite: None.

WLA 104 Latin I

Latin I focuses primarily on morphology, or the formation of words in the Latin language. Students will learn the endings of all five declensions (nouns and adjectives); the four conjugations of verbs; the six tenses in both active and passive voice, as well as the indicative and imperative moods; vocabulary and their corresponding English derivatives; and basic grammatical concepts. Additional topics include Roman culture and history.

Credit: 5

Quality Point Group: I

Open to Grades: 8,9,10,11,12

Prerequisite: None.

WLA 201 Spanish II

WLA 202 French II

WLA 203 German II

WLA 205 Italian II

Level II continues the work of the first course with a more advanced approach to pronunciation, grammar, reading, and writing. Students will improve their conversational skills, sharpen their pronunciation, and draw comparisons between American culture and that of the target language.

Credit: 5

Quality Point Group: I

Open to Grades: 9,10,11,12

Prerequisite: Pope John 8th graders must have a grade of 90 in Level 1. All other students must have a grade of 77 in Level I.

WLA 204 Latin II

Students enrolled in Latin II are already familiar with terminations defining the cases of each declension (i.e., five declensions), with the formation of finite verbs, and with fundamental grammatical concepts; they will concentrate on mastering the more significant grammatical constructions of Latin writing style, including infinitives, participles, the subjunctive mood (and its subordinate applications), and gerunds/gerundives. By the fourth marking period, students will translate original and adapted passages from various classical Roman authors. Lessons on Roman culture and history complement the language study.

Credit: 5

Quality Point Group: I

Open to Grades: 9,10,11,12

Prerequisite: Pope John 8th graders must have a grade of 90 in Level 1. All other students must have a grade of 77 in Level I.

WLA 301 Honors Spanish III

WLA 302 Honors French III

WLA 303 Honors German III

WLA 305 Honors Italian III

Level III, an advanced course, continues to stress oral communication. Students study and discuss current and classic writings on an introductory level, review and expand grammar, examine the written aspects of the language, and make deeper cultural connections to the target language.

Credit: 5

Quality Point Group: II

Open to Grades: 10,11,12

Prerequisite: Final grade of 83 in Level II.

WLA 304 Honors Latin Prose*

Students taking Honors Latin Prose will build on their knowledge of Latin grammar and syntax by reading unadapted selections from Livy, Cicero, and Pliny. In addition to recognizing and interpreting the complex syntactical constructions of the Latin language, students will expand their Latin vocabulary and understanding of periodic structure, rhetorical terms, and figures of speech. These authors will not only enhance students' understanding of the Latin language but

also that of Roman history from the city's foundation, to its expansion into a secular empire, and ultimately to an empire integral to the foundations of the Roman Catholic Church.

Credit: 5

Quality Point Group: II

Open to Grades: 10,11,12

Prerequisite: Final grade of 83 in Latin II or Honors Latin Poetry.

**NOTE: Honors Latin Prose and Honors Latin Poetry are offered in alternate years.*

WLA 307 Honors Ancient Greek

This course will introduce students to the alphabet, syntax, and major dialects of the Ancient Greek language. In addition to the language itself, the culture and literary history of ancient Greece will be explored through both adaptations of authentic materials from Homer, Herodotus, Plato, Sophocles, and St. Paul, and excerpts read in translation.

Credit: 5

Quality Point Group: II

Open to Grades: 11,12

Prerequisite: Open to students who have completed two consecutive years of Latin at the high school level, having finished either Latin II, Honors Latin Poetry or Honors Latin Prose with a final grade of 83 or better.

WLA 310 Honors Japanese I

This course introduces students to the basics of Japanese vocabulary and grammar structures as well as Japan's history and culture. Students will learn two Japanese phonetic systems, hiragana and katakana, as well as approximately 100 kanji characters.

Credit: 5

Quality Point Group: II

Open to Grades: 11,12

Prerequisite: Open to those students who have completed the 2-year graduation requirement (2 consecutive years of the same language) with a final grade of 83 in level II or III.

WLA 401 Honors Spanish IV

An advanced course, Honors Spanish IV enhances students' proficiency in the areas of listening, comprehension, speaking, reading, and writing. Students will also interpret and analyze representative literary works and develop an appreciation for the culture and history of Hispanic countries. Students will also complete a thorough Spanish grammar preparation for the Advanced Placement Spanish and Culture course.

Credit: 5

Quality Point Group: II

Open to Grades: 11,12

Prerequisite: Final grade of 83 in Honors Spanish III

WLA 402 Honors French IV

An advanced course, Honors French IV enhances students' proficiency in the areas of listening, comprehension, speaking, reading, and writing. Students will also interpret and analyze representative literary works and develop an appreciation for the culture and history of French-speaking countries.

Credit: 5

Quality Point Group: II

Open to Grades: 11,12

Prerequisite: Final grade of 83 in Honors French III

WLA 403 Honors German IV

Honors German IV is an advanced course that aims at taking students beyond the study of mechanics to application. While expansion of vocabulary and mastery of grammatical structures are stressed, students also read a variety of literature--fiction and nonfiction, historic and contemporary. Other media, such as film, television, music and art, will engage students on multiple levels. One of the course goals is to develop in students a level of proficiency and confidence that will allow them to place into higher-level German courses at their prospective colleges and universities.

Credit: 5

Quality Point Group: II

Open to Grades: 11,12

Prerequisite: Final grade of 83 in Honors German III

WLA 404 Honors Latin Poetry*

Students taking Honors Latin Poetry will build on their knowledge of Latin grammar and syntax by reading unabridged selections from Virgil's *Aeneid*, Catullus, Ovid, and Horace. In addition to recognizing and interpreting the complex syntactical constructions of the Latin language, students will expand their Latin vocabulary and understanding of metrical devices, rhetorical terms, and figures of speech.

Credit: 5

Quality Point Group: II

Open to Grades: 11,12

Prerequisite: Final grade of 83 in Latin II or Honors Latin Prose

**NOTE: Honors Latin Prose and Honors Latin Poetry are offered in alternate years.*

WLA 405 Honors Italian IV

Students of Honors Italian IV refine their listening, reading, speaking, and writing skills as well as study advanced grammar, composition and vocabulary. Students also gain proficiency by reading selected stories by noteworthy authors, and they increase their cultural awareness by reading passages, viewing films, and completing Internet activities.

Credit: 5

Quality Point Group: II

Open to Grades: 11,12

Prerequisite: Final grade of 83 in Honors Italian III.

WLA 410 Honors Japanese II

Students enrolled in Honors Japanese II acquire greater proficiency in conversation and aural comprehension. Both the hiragana and katakana sets of characters will be reviewed and reinforced, new characters will be introduced, and students will learn to recognize and write approximately 300 kanji characters. Japanese culture, history, and literature will complement the language study.

Credit: 5

Quality Point Group: II

Open to Grades: 12

Prerequisite: Final grade of 83 in Honors Japanese I

WLA 501 Advanced Placement Spanish

This course, structured according to the guidelines of the Advanced Placement Program of the College Board, is conducted entirely in Spanish. After an in depth, systematic review of major grammar principles, the course will focus on spoken expression, vocabulary enrichment, and reading without excessive reliance on a glossary or dictionary. The AP course will provide students with the opportunity to converse fluently in Spanish and will strengthen their ability to read carefully graduated excerpts of literature. Students will also read current news articles, and watch/listen to podcasts, newscasts and recorded interviews. All students taking the course are required to take the Advanced Placement Spanish

Language examination, a satisfactory score on which can result in college credit for the course.

Credit: 5

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 87 in Honors Spanish IV and placement test.

WLA 502 Advanced Placement French

This course is structured according to the guidelines of the Advanced Placement Program of the College Board and will be conducted exclusively in French. After a systematic review of the major grammar principles, students will be trained to write well-constructed essays in French without reliance on dictionaries or other aids. AP French will prepare students for the AP test by providing extensive opportunities to listen to native French speakers, and to converse and respond in a variety of registers and in writing. Students will also read French literature and periodicals in addition to online texts, and they will respond in both written and oral formats. All students taking the course are required to take the French Language Examination that is administered in May. A satisfactory score on this exam can result in college credit for the course.

Credit: 5

Quality Point Group: III

Open to Grades: 11,12

Prerequisite: Final grade of 87 in Honors French IV or a final grade of 90 in Honors French III and teacher's recommendation.

WLA 504 Advanced Placement Latin

In accordance with the A.P. syllabus, this course explores in depth readings in both Latin prose and poetry, specifically Caesar's *De Bello Gallico* and Vergil's *Aeneid*, as well as sight-reading passages from other Latin authors. Students will not only to translate but also analyze these texts from their socio-political, historical, and philological contexts. This course culminates in the A.P. Latin exam that is administered at the end of the school year.

Credit: 5

Quality Point Group: III

Open to Grades: 12

Prerequisite: Final grade of 87 or above in either Honors Latin Poetry & Honors Latin Prose.

WLA 505 Advanced Placement Italian Language and Culture

The AP Italian Language and Culture course emphasizes the components of communication, including vocabulary usage, language control, communication strategies, and cultural awareness.

By engaging students in an exploration of culture in both contemporary and historical contexts, the course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

To best facilitate the study of language and culture, the course is conducted almost entirely in Italian.

Credit: 5

Quality Point Group: III

Open to Grades: 12

Prerequisite: 87 or above in Honors Italian IV