



FONTBONNE HALL ACADEMY

**COURSE SELECTION BOOK
ACADEMIC YEAR
2015 – 2016**



Fontbonne Hall Academy Mission Statement

Fontbonne Hall Academy, a college preparatory school for young women, founded on the gospel of Jesus Christ and inspired by the philosophy and charism of the Sisters of Saint Joseph, offers a superior educational program, to form and empower young women of confidence and compassion.

Beliefs

- 1. We believe that our Catholic faith challenges us to recognize that our life's journey is guided by our spiritual growth.**
- 2. We believe that education must foster in each student an awareness of her dignity as a woman so that she may, in turn, respect the dignity of each person.**
- 3. We believe that a sense of integrity should be evident in all of life's dealings.**
- 4. We believe that every student has the potential to become an ethical and moral force in society.**
- 5. We believe that a well-rounded education encourages academic curiosity, personal creativity, intellectual risk-taking and cultural awareness, leading to a spirit of lifelong learning.**
- 6. We believe that a small school with many opportunities for personal contact and individual guidance enables each student to maximize her potential.**
- 7. We believe that family, school and community should be active partners in the educational process.**
- 8. We believe that it is important to motivate each woman to embrace responsibility for her own learning.**
- 9. We believe that an intrinsic understanding of social justice and peace comes from an awareness of global issues and a desire to create a better world.**
- 10. We believe that the future is dependent upon compassionate women assuming leadership roles in community, church and country.**

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REQUIREMENTS FOR FONTBONNE HALL

NYS REGENTS DIPLOMA

Religious Studies	4 units	
English	4 units	+Comprehensive English Regents
Social Studies	4 units	+Global History & Geography Regents Examination +U.S. History & Government Regents Examination
Mathematics	3 units	+Integrated Algebra or Algebra I
Science	3 units	+1 Science Regents Exam
World Language	3 units	
Fine Arts	2 units	
Health	½ unit	
Physical Education	2 units	
Community Service	1 unit	

NYS ADVANCED REGENTS DIPLOMA

Religious Studies	4 units	
English	4 units	+Comprehensive English Regents
Social Studies	4 units	+Global History & Geography Regents Examination +U.S. History & Government Regents Examination
Mathematics	3 units	+Integrated Algebra or Algebra I +Geometry +Algebra 2/Trigonometry or Algebra 2
Science	3 units	+ Living Environment and at least one Regents in: <ul style="list-style-type: none">• Physical Setting: Chemistry• Physical Setting: Earth Science• Physical Setting: Physics
World Language	3 units	+Alternate World Language Examination
Fine Arts	2 units	
Health	½ unit	
Physical Education	2 units	
Community Service	1 unit	

English Department

All students must take at least four years of English.

Regents Requirements: All students must take and pass the Comprehensive English Regents in order to earn a New York State Regents Diploma.

Honors/AP Class Guidelines

For any student currently enrolled in an advanced English course (Honors or AP), the recommendation of the current teacher will be considered for continuation as well as the student's course average.

110 English 9

English 9 is a ninth-year course which stresses the development of reading, writing, speech, vocabulary and listening/note taking skills. Students are introduced to, and practice, essay writing. Basic literary analysis and elementary research methods are introduced. Preparation for the new Regents exam is an important part of the course.

Credit: 1

115 English 9 Honors

This course is an advanced ninth-year course. Admission is based on TACHS scores and elementary/intermediate school records.

Credit: 1

120 English 10

English 10 is a tenth-year course which stresses further development of the language skills introduced in English 9. Special emphasis is placed on reading comprehension and literary appreciation. This year-long course will also include the continued development of the research paper. Preparation for the new Regents, PSAT and the SAT are included.

Credit: 1

125 English 10 Honors

This is an advanced tenth-year course. This class is comprised of students who have demonstrated excellent language skills, analytical skills, and a love of reading.

Credit: 1

130 English 11

This full-year course focuses on the various genres encompassed in American literature. Each unit of work features writing by American authors in line with historical events covered in U.S. History. Further development of the skills taught in Grades 9 and 10 continue and PSAT, SAT and Regents preparation are taught in the Fall and Spring.

Credit: 1

147 Advanced Placement English Language and Composition

This year-long course, **English Language and Composition**, prepares the student to take the Advanced Placement test in English given in May of each year. This exam tests both writing ability and knowledge of various rhetorical modes. Students study how a writer's choice of words, sentence length, sentence structure, and other elements affect his or her style. The student's fluency in a variety of different writing modes will be expected.

Prerequisites: The A.P. Exam is mandatory.

Credit: 1

142 English 12

This is a survey course focusing on different genres of Western literature. Students write papers of literary analysis, engage in discussions of literary works, prepare for the SAT and study vocabulary. **Qualifying students may take this course for St. John's University and Saint Francis College credit.**

Credit: 1

146 Advanced Placement English Literature and Composition

This year-long course, **English Literature and Composition**, prepares the student to take the Advanced Placement test in English given in May of each year. To this end, the students study many representative works of proven literary worth from several genres and periods. In addition, they concentrate on concise and effective use of language in their written assignments.

Prerequisites: The AP Exam is mandatory.

Credit: 1

150 Print Journalism

This is a prerequisite for Broadcast Journalism, which will be offered during the 2016 – 2017 school year. The focus of the class will be on the fundamental basis of Print Journalism. The course will cover the history of Journalism, the fundamentals of AP style, the fundamentals of journalistic writing, the fundamentals of photo composition, and design basics. Students must write for *the Folio* as part of their grade. Their cumulative average in English must be over 80. There will be a Summer Reading assignment.

Credit: 1

Fine and Practical Arts Department

Art

610 Visual Perception

This is a one-year humanities course which offers the student an opportunity to increase perception and awareness in art. The evolution of the universe, our solar system, the earth and humans will be studied. The development of art and art movements will be illustrated and related visual assignments will be part of studio study.

Credit: 1

620 Major Art 1 (Drawing I, Mechanical Drawing I, Painting I)

Drawing I - Through fundamental drawing techniques, the basics of two-dimensional representation are explored (line drawing, shading, and perspective). Careful and accurate perception of form and space is stressed as well as the unique vision and originality of each student.

Mechanical Drawing I – Quarter 2 and Quarter 3 will involve a serious exploration of one-point perspective including the study of building design, interior design, and basic urban layout planning.

Painting I – Beginning with color aid presentation, basic color perception will be studied. The combined use of drawing skills, form perception, and color knowledge will introduce water color application and techniques.

Prerequisite: Minimum average of 90 in Visual Perception; Portfolio of 5-10 works;

Departmental Approval

Approximate Cost: \$250

Credit: 1

630 Major Art 2 (The Human Figure & 2 Point Perspective)

Advanced perspective drawing involving 2 and 3-point building design and drafting will be studied. In addition, the human face, proportion and anatomy will be a major area of exploration.

Painting II - In this advanced course, the student continues to explore various techniques as well as continually developing color and form perception, originality and painting style. In addition, a basic study of important painting movements in art history is explored.

Approximate Cost: \$150

Prerequisite: Minimum average of 90 in Major Art 1; Department Approval.

Credit: 1

640-641 Major Art 3 (Portfolio Development)

Major Art 3 is an advanced course designed to allow the senior art major freedom in exploring personal styles and painting techniques. Originality is strongly stressed so as to build a portfolio of quality work for college interviews and admission and will include a selection of original work and slides that satisfy areas of specialization including work in color/design, drawing, sculpture, painting, watercolor, computer graphics, mechanical drawing and contemporary concerns.

Cost: Material for art production \$150

Prerequisite: A minimum average of 90 in Major Art 2, and a portfolio of 10 Major Art pieces.

Credit: 1

642 Photography

This course is basically divided into two major areas of study:

1. Photography - the basics of 35 mm cameras settings, darkroom procedures and printing techniques are addressed. Each photography student will be introduced to the proper use of digital cameras and Adobe Photoshop® applications.
2. The examination and study of important photographers, cinematographers and film makers.

Approximate Cost: \$250 plus \$100 Lab Fee

Prerequisite: Visual Perception.

Each student must have her own digital and 35 mm single lens reflex camera.

Credit: 1

645 Fashion and Interior Design (online)

In this course, students who have a flair for fashion find out what it is like to work in the design industry by exploring career possibilities. Students learn the basics of color and design, test their skills through hands-on projects and learn the essential communication skills that build success in any business.

Credit: ½

Music

655 Music Appreciation

This course is designed to give the students an exposure to music from the Middle Ages to the present. Students will increase their awareness and appreciation of various musical styles through listening, studying, and where appropriate, viewing performances of great works.

Credit: 1

670 Vocal Ensemble

This course is for anyone who enjoys singing. Proper vocal technique is emphasized. This includes correct diction, vowel pronunciation, ear-training (singing in harmony with accurate pitch), good breathing and independent singing. Some sight-reading is also included. The students will perform music that will span a variety of styles, and will participate in Christmas and Spring Concerts.

Prerequisite: Audition.

Credit: 1

672 Select Chorus

This course is for students with advanced musical abilities and previous choral experiences. Three and four-part music is memorized and the repertoire covers a wide range of musical styles from folk songs to contemporary Broadway shows. The students will be featured at Open House, Christmas and Spring Concerts and will participate in school liturgies.

Prerequisite: Interview with the teacher to determine eligibility.

Credit: 1

675 Advanced Music Appreciation

This is a full year course. Students will study the progress of musical development through the ages. The lives of major composers from each musical period are studied and their compositional techniques analyzed in order to develop true appreciation and understanding.

Credit: 1

678 Fleur de Lys Chorale

This is an advanced women's choir for mature singers looking to expand their horizons. It allows students to work, learn and perform with students from other CSJ schools while developing a comfortable level of performing ability, leadership skills, sense of responsibility, and to discover the unique thrill of performance. The ensemble meets (after school once a week for two hours and one Saturday a month) and will require time beyond rehearsals for outside performances. Audition is required for acceptance.

Prerequisite: Audition.

Credit: ½

Computer Science

806 Introduction to Coding

This full year course will introduce the fundamental concepts of computer science, computational thinking and problem solving. An introduction to coding using programs such as Scratch, Blockly, and Javascript will be presented. Required of all 9th grade students.

Credit: 1

807 Applications of Coding

This course will require students to use their knowledge of coding to work collaboratively with a team that will result in a project based activity. Required of all 10th grade students.

Credit: 1

808 Computer Science

This course will focus on the two main components of computers: software and hardware. Students will learn to program in HTML, Python, and possibly some JavaScript. Students will also learn about simple circuits, current, resistance, etc. – the hardware components/properties that pull the systems together.

Credit: 1

Physical Education and Health

710 Physical Education 9

This course is designed to give each student an exposure to different sports. The year begins with conditioning. The class then moves on to beginning volleyball, and basic tumbling. The students will then learn soccer and participate in lead-up games.

Credit: ½

720 Physical Education 10

In Physical Education the students will learn cooperative games, basketball and badminton.

Credit: ½

730 Physical Education 11

The students will start the year with conditioning. Advanced skills are taught in volleyball. Folk and Square Dances are introduced as well as New York City Street Games.

Credit: ½

740 Physical Education 12

Students will learn fitness and nutrition. This will be followed by aerobics. The year will culminate with the fundamentals of social dance.

Credit: ½

741 Leaders in Physical Education

This course is for those students who in the opinion of the instructors have the ability and knowledge to assist in Physical Education 9 and 10 classes. The leaders are taught how to write a lesson plan, officiate various sports and to lead group activities if and when requested to do so. These students are to set an example for Physical Education classes as well as for the rest of the school in appearance, manner and decorum.

Prerequisite: By teachers invitation only.

Credit: ½

420 First Aid and CPR

Students will learn American Heart Association basic lifesaving and First Aid. The course will meet twice a cycle for a semester. Class size will be limited to 18 students (with two instructors)

Certification and materials fees are required

Credit: ½

433 Health

This course is aimed at making health personally and socially relevant to the student. Basic health principles are taught in the areas of substance abuse and sexuality. The student examines her own values and is given skills for intelligent decision-making.

Credit: ½

World Language Department

Diploma Requirements

Fontbonne Hall Academy **requires 3 years of study** in a Language other than English (LOTE). However, a 4th year of study is strongly recommended. For the Advanced Regents Diploma, a student must pass the comprehensive examination in the LOTE after the third year of study.

Students beginning a second world language must continue for 2 years.

380 Introduction to Latin

This is a one year course for beginners in Latin which provides the basic knowledge of the essential Latin forms, grammar, syntax, and vocabulary from which so many English words derive. This aspect of the course will lead to an increased understanding of how Latin and English function, and therefore help our students prepare for the SAT and ACT. Also, in a highly interactive learning setting the course offers a general introduction to Roman history and culture through text analyses by classical authors.

Credit: 1

385 Chinese 1 (Mandarin) (online)

Students begin their introduction to the course by focusing on the four key areas of foreign language study: listening, speaking, reading and writing. Each unit consists of a new vocabulary theme and grammar concepts, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conventional examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are introduced in the first quarter. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond to basic conversational prompts, analyze and compare cultural practices, perspectives gives of various Chinese speaking regions, and take frequent assessments where their language progression can be monitored.

Credit: 1

395 French 1 (online)

This is an introductory course that provides students with a thorough grounding in the basics of the French language. Course focuses on communications through speaking, listening, reading, and writing.

Credit: 1

312 Level 1 – Italian / 314 Level 1 – Spanish

Level 1 of a language is designed to give the beginning student pronunciation, grammar, syntax, and listening comprehension in the target language. Basic everyday conversation, requesting and providing information related to daily life are practiced. Grammar will stress verbal conjugations enabling students to express information in the present, past and future tenses. A basic cultural awareness of the target language is inaugurated.

Credit: 1

322 Level 2 – Italian / 324 Level 2 – Spanish

In these courses more complex structural patterns are offered with continued emphasis on pronunciation and comprehension. Reading, writing, and conversational skills are further developed through the use of brief stories and compositions and assigned topics concerned with everyday situations. Verbal conjugation is expanded to include the descriptive past. Cultural awareness is continued.

Credit: 1

332 Level 3 – Italian / 334 Level 3 – Spanish

Students learn to use the conditional and subjunctive as well as grammatical structures studied previously for:

1. Reading comprehension for information as well as pleasure.
2. Impromptu conversation using listening and speaking skills.
3. Original written expression in the form of compositions.
4. Regents preparation.

Cultural study is continued in a multi-media approach.

Credit: 1

333 Level 3H – Italian / 335 Level 3H – Spanish

This is an accelerated course that covers topics in preparation for the NYS Comprehensive Language Regents that students will take in June. The course offers more complex grammatical and conversational patterns.

Students will practice more advanced listening, speaking, reading and writing skills. Pronunciation drills will be stressed.

Prerequisite: Teacher Recommendation.

Credit: 1

342 Level 4 – Adv. Italian Conversation & Culture/344 Level 4 – Adv. Spanish Conversation & Culture

College credit prerequisites: Juniors: 85% average and 500 Verbal / 500 Math on PSAT

Seniors: 80% average and 500 Verbal / 500 Math on SAT

This course is an advanced conversation and composition course designed for students who wish to perfect their language skills. Grammar, conversation, written assignment and reading based on the works of several major authors from Italy, Spain and Latin America. Qualifying students may take the course for St. John's University credit.

Prerequisite: Teacher Recommendation.

Credit: 1

343 Level 4H – Italian / 354 Level 4H – Spanish

Students will further strengthen their foundation in grammar and syntax. Readings, conversations and written assignments will be based on some of the major language authors. Students will use appropriate vocabulary and learn ways to address different audiences. The successful completion of the course will lead students into college level study in senior year. **Students are required to complete a “summer reading” assignment.**

Prerequisite: Teacher Recommendation.

Credit: 1

325 AP Italian / AP Spanish

The aim of this course is the perfection of all the skills requisite to the mastery of the target language namely reading, writing, listening and speaking. The course is conducted in the targeted language. Students gain in-depth knowledge of the language with regards to grammar, literature, culture and current events through a wide spectrum of classroom activities. Furthermore, students will be encouraged to interpret within the appropriate cultural context spoken and written communication by examining movies, texts, radio and television broadcasts and speeches. **Students are required to complete a “summer reading” assignment.**

Prerequisite: Teacher Recommendation.

Credit: 1

Mathematics Department

Regents Diploma:	3 math credits --	Algebra I Regents Examination passed
Advanced Regents Diploma:	3 math credits –	Algebra I, Algebra 2 and Geometry Regents Examinations passed

518 Algebra I

This course follows the New York State Syllabus for Algebra and includes topics such as relationships between quantities and reasoning with equations and their graphs, descriptive statistics, linear and exponential functions, polynomial and quadratic expressions, equations and functions, and a synthesis of modeling with equations.

The Algebra 1 (Common Core) Regents Examination will be taken in June.

Credit: 1

519 Algebra I Honors

This course follows the New York State Syllabus for Algebra and includes topics such as relationships between quantities and reasoning with equations and their graphs, descriptive statistics, linear and exponential functions, polynomial and quadratic expressions, equations and functions, and a synthesis of modeling with equations.

This course will be taught at an accelerated pace with emphasis on challenging problems. The Algebra 1 (Common Core) Regents Examination will be taken in June.

Prerequisite: Departmental Approval.

Credit: 1

524 Geometry

This course follows the New York State Syllabus for Geometry and includes topics on congruence in terms of rigid motions, similarity, proving geometric theorems, making geometric constructions, problems involving trigonometric ratios, coordinate geometry proofs, circles and applying geometric concepts in modeling situations. The Geometry (Common Core) Regents Examination will be taken in June.

Credit: 1

526 Geometry Honors

This course follows the New York State Syllabus for Geometry and includes topics on congruence in terms of rigid motions, similarity, proving geometric theorems, making geometric constructions, problems involving trigonometric ratios, coordinate geometry proofs, circles and applying geometric concepts in modeling situations. This course will be taught at an accelerated pace with emphasis on challenging problems. The Geometry (Common Core) Regents Examination will be taken in June.

Prerequisite: Departmental Approval.

Credit: 1

531 Algebra 2

This course follows the New York State Syllabus for Algebra 2/Trigonometry and includes topics in functions, probability, statistics, logarithms, and trigonometry. The Algebra 2 (Common Core) Regents Examination will be taken in June.

Credit: 1

541 Algebra 2 Honors

This course follows the New York State Syllabus for Algebra 2/Trigonometry and includes topics in functions, probability, statistics, logarithms, and trigonometry. This course will be taught at an accelerated pace with emphasis on challenging problems. The Algebra 2 (Common Core) Regents Examination will be taken in June.

Prerequisite: Departmental Approval.

Credit: 1

550 Math 12

This course is a preparation for college and includes topics on set theory, matrices, functions, logarithms, systems of equations and review of algebra and trigonometry. A summer assignment is to be completed and submitted on the first day of class.

Prerequisite: Departmental Approval.

Credit: 1

535 Pre-Calculus

Topics in this course will include linear relations and functions, linear programming, theory of equations, matrices, the circular functions and trigonometry, sequences and series, polar coordinates and graphs of polar equations, limits, the natural logarithm, and conics. This course will prepare the student for a first course in Calculus. **Qualifying students may take the first semester of this course for St. John's University credit. A summer assignment is to be completed and submitted on the first day of class.**

Prerequisite: Algebra 2/Trigonometry Regents and Departmental Approval.

Credit: 1

548 Pre-Calculus Honors

Topics in this course will include linear relations and functions, linear programming, theory of equations, matrices, the circular functions and trigonometry, sequences and series, polar coordinates and graphs of polar equations, limits, the natural logarithm, and conics. This course will prepare the student for a first course in Calculus and will be taught at an accelerated pace with emphasis on challenging problems. **Qualifying students may take the first semester of this course for St. John's University credit. A summer assignment is to be completed and submitted on the first day of class.**

Prerequisite: Algebra 2/Trigonometry Regents and Departmental Approval.

Credit: 1

547 Honors Analysis

The first semester of this course will include a study of linear relations and functions, linear programming, the circular functions and trigonometry, polar coordinates and graphs of polar equations. The second semester will be spent studying topics in Calculus: limits, derivatives and applications of the derivative. **Qualifying students may take this course for St. John's University credit. A summer assignment is to be completed and submitted on the first day of class.**

Prerequisite: Algebra 2/Trigonometry Regents and Departmental Approval.

Credit: 1

543 Advanced Placement Calculus

This is a critical analysis of the theories and foundations of Calculus. Topics include the basic concepts and applications of limits and functions, differentiation and integration. The object of this course is to give exceptional math students the opportunity to study college Calculus while still in high school. **Qualifying students may take this course for St. John's University credit. A summer assignment is to be completed and submitted on the first day of class.**

Prerequisite: Algebra 2/Trigonometry Honors or Pre-Calculus Honors and Departmental Approval.

Credit: 1

545 Advanced Placement Statistics

A two-semester distance learning course which follows the AP Statistics syllabus. The AP exam in May is required. Access to a computer outside of school is highly recommended.

Cost - \$350 and cost of AP exam.

Prerequisite: Departmental Approval.

Credit: 1

Religious Studies Department

All students are required to successfully complete four years of Religious Studies.

015 Religion 9

This is a full year course which includes:

Catholic Identity – Quarter I

The student will be instructed in Catholic Identity, the key teachings of the Church, its tradition and the mass.

Hebrew Scriptures – Quarter II

The students will be instructed in methods of bible study and key themes in the major books of the Hebrew Scriptures.

Christian Scriptures – Quarter III and Quarter IV

The students will be introduced to the New Testament, focusing on the gospels. Key themes in the preaching of Jesus will be considered in detail. The seven sacraments will be considered in relationship to the biblical preaching and contemporary issues.

Credit: 1

020 Religion 10

This is a full year course that teaches:

Life in Christ - Quarter I and Quarter II

Jesus reveals how we should live and is the model of Christian life. In our study of personal morality we will explore the dignity of the human person, the ethical teachings of Christ, and, with the help of Scripture and Tradition, the student will learn a workable method of approaching personal moral decisions.

Life in Christ – Quarter III and Quarter IV

“How do I live as a Beatitude Person in a world filled with many voices clamoring for my attention?” This will be the focus of social morality. By our nature, we are social beings and are linked to the rest of humanity; we will be held accountable not only for the things we have done, but also for the things we failed to do for others – particularly the marginalized. Since morality is not just about us, but is about society as well, students will stay current on pressing moral topics and ethical issues of the day and will be able to critically formulate and intelligently express their positions on a multiplicity of moral, ethical, religious, political and social justice issues.

Credit: 1

030 Religion 11

This is a full year course that teaches:

Death and Resurrection – Quarter I

Death is a limit situation that opens rich avenues for Christians to explore the meaning of their lives. Students will be encouraged to explore the meaning of death in the context of Jesus’ teaching on the reign of God and to consider the meaning of their futures in the light of the resurrection of Jesus.

Social Justice – Quarter II and Quarter III

This course explores the social dimension of Christian faith. Students will explore the essential characteristics of a Catholic vision of social justice. Through social analysis and theological reflection they will explore the Christian challenge to truly live gospel values.

The Sacraments – Quarter IV

This course treats the sacraments as privileged moments of God’s grace in the Christian community. It is designed to help students cultivate awareness of the sacraments in order to grow in their love of life and their faith in God.

Credit: 1

040 Religion 12

This is a full year course that teaches:

Jesus in Christian Faith – Quarter I and Quarter II

All religious language is an attempt to articulate our experience of our human limits, our sorrows and our joys. The goal of this course is to consider three fundamental human questions: Who am I? Where did I come from? Where am I going? The life and teachings of Jesus are considered in the light of his answers to these fundamental questions. (This course is offered for college credit from St. John's University. Students must meet SJU criteria for SAT scores and average.).

Building Loving Relationships – Quarter III and Quarter IV

The goal of this course is to consider love as the heart of all human experience. The foundation of our vision of love is the New Testament vision of Jesus and the interpretation of that vision in the history of Christian life and thought. Contemporary questions related to our loving relationships will be viewed through these dual perspectives. **Qualifying students may take this course for St. John's University credit.**

Credit: 1

Science Department

Diploma Requirements

Regents Diploma: 3 years of Science, the passing of one Regents Examination.

Advanced Regents Diploma: 3 years of Science; the passing of Living Environment Regents Examination and one other Regents Examination in Science.

425 Living Environment

This course concentrates on the Living Environment curriculum which examines the interaction of species with the environment at the ecological level and the study of Modern Genetics. Scientific inquiry and laboratory experiences are central to this course.

Credit: 1 Required

428 Biology Honors

This course approaches the curriculum at a more advanced level, preparing the students for both the Living Environment Regents and the SAT II in Biology. SAT II in Biology is mandatory.

Fee is required.

Credit: 1

470 Advanced Physical Science

This course focuses on an introduction to Chemistry and Physics. It provides students with a hands-on approach to understanding scientific principles and the scientific method. Students will be actively engaged in solving problems, formulating hypotheses, gathering data and analyzing data to form conclusions about experimental objectives.

Credit: 1

472 Honors Physical Science

This course focuses on an introduction to Chemistry and Physics. It provides students with a hands-on approach to understanding scientific principles and the scientific method. Students will be actively engaged in solving problems, formulating hypotheses, gathering data and analyzing data to form conclusions about experimental objectives. Students will have the opportunity to take the Regents examinations in Chemistry and Physics required.

Credit: 1

430 Chemistry

Chemistry is the quantitative and qualitative study of matter and energy. Included is an overview of kinetics, atomic theory, organic chemistry and modern applications. This course follows the New York State Regents syllabus and incorporates required laboratory exercises.

Credit: 1

438 Chemistry Honors

This advanced chemistry course focuses on the quantitative and qualitative study of matter and energy. Included is an in-depth study of kinetics, atomic theory, organic chemistry, and modern applications. This course follows the New York State Regents syllabus and incorporates laboratory exercises. In addition to taking the NYS Regents examination, students will be encouraged to take the SAT II in Chemistry.

Prerequisites: Strong math and science skills; Departmental Recommendation.

Credit: 1

485 Science Research

Science Research is a three-year sequence of classes that begins in sophomore year. Students select a topic of investigation and conduct original research under the guidance and supervision of a research scientist at a college or university. The class will meet each morning at 7:20am and students will also meet with a teacher during a resource period once each cycle. Over the course of three years, 12 college credits can be earned that are awarded by SUNY Albany. Students should be aware that working on a project will involve work over the summer months.

Credit: 1

486 Intermediate Science Research

The second course in the three year Science Research Program. Science Research is a prerequisite. The class will meet twice a week, after school and student will also meet with a teacher during a resource period once per cycle. **College credits may be earned from SUNY Albany.**

Credit: 1

440 Physics

This course presents a modern view of physics with concentration on fundamental theories and laboratory investigation. The Physics program covers the following areas: Mechanics, Wave Phenomena, Electricity-Magnetism, Solid State Physics and Atomic and Nuclear Physics. This course follows the New York State Syllabus and allows for Regents credit through the Regents examination and required laboratory exercises.

Prerequisites: Successful completion of Chemistry course, strong mathematics and problem-solving skills, and Departmental Approval.

Credit: 1

447 Physics Honors

This advanced course presents an in-depth study of physics with concentration on fundamental theories and laboratory investigations. This program studies topics in mechanics, wave phenomena, electricity, magnetism, solid state physics and atomic and nuclear physics. Mastery of mathematical applications is required. This course follows the NYS Regents syllabus. In addition to taking the NYS Regents examination, students will be encouraged to take the SAT II in Physics.

Prerequisites: Strong mathematics and problem-solving skills, passing the June Chemistry Regents Examination and departmental signature.

Credit: 1

455 Introduction to Anatomy and Physiology

This course is designed for students interested in the fields of nursing, physical therapy, physician assistant, sport medicine, occupational therapy and related disciplines. The course includes the study of the functions of systems of the human body. In addition, a laboratory component that focuses on learning common medical/nursing terminology and the study of diseases is required. **Qualifying students may take this course for St. John's University. Prerequisites: Department approval-chairperson signature required; passing of all NYS Science Regents Examinations.**

Credit: 1

481 Forensics

Forensics is the integration of science and the law. Students will learn to incorporate scientific and laboratory techniques to solve simulated legal problems. Laboratory included. . **Qualifying students may take this course for St. John's University.**

Prerequisite: Departmental Approval.

Credit: 1

465 Advanced Placement Biology

The equivalent of a required first-year college Biology course with a curriculum set by the College Board, includes cell chemistry, bioenergetics, plant and animal physiology, cell structure and reproduction, and modern genetics. Included are mandatory laboratory units. The AP exam in May is required.

Prerequisite: Strong comprehensive science background. Departmental Approval - signature required.

Credit: 1

475 Advanced Placement Chemistry

This is the equivalent of a required first-year college Chemistry course with a curriculum set by the College Board. This course will cover topics such as the arrangement of atoms, chemical and physical properties of materials, changes in matter, rates of chemical reactions, and laws of thermodynamics. Included are mandatory laboratory units. The AP exam in May is required.

Prerequisite: Strong comprehensive science background; Departmental approval - signature required.

Credit: 1

477 Advanced Placement Physics 1: Algebra-Based Course

This is an algebra based, introductory college-level course that explores topics such as Newtonian mechanics, work, energy, and power: waves and sound. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Included are mandatory laboratory units. The AP Exam in May is required.

Prerequisite: Strong comprehensive science background; Departmental approval - signature required.

Students must have completed Geometry and concurrently taking Algebra 2 or an equivalent course.

Credit: 1

487 Advanced Placement Environmental Science (online)

This course will help students identify and analyze environmental problems and their effects. Students will evaluate the effectiveness of proposed solutions. They will learn to think like environmental scientists as they make predictions based on observation. Students will write hypothesis, design and complete field studies and experiences, and reach conclusions based on the analysis of resulting data.

Credit: 1

489 The Brown University Pre-College Engineering Program (online)

This pre-college engineering program is an online year long course that presents the following pre-college curricula: Exploring Engineering, Biomedical Design for Society's Needs, and Renewable Energy Engineering: Wind and Solar Power. The course is taught by a professor from Brown University, with a hands-on engineering project, facilitated by an FHA faculty member. In order to take the course, students must be available for project work after school and course work will require 5 hours of work per week. This class is open to 10th, 11th and 12th grade students. Administrative approval is required. The class is limited to 25 students.

Credit: 1

Social Studies Department

Diploma Requirements

For NYS Regents and Advanced Regents Diplomas: Four credits required, including 2 units of Global History and Geography, 1 unit in US History and Government and ½ unit each in Participation in Government and Civics, and Economics. Passing both the NYS Regents Examination in Global History and Geography and the NYS Regents Examination in US History are required.

210 Global History & Geography 9

This chronological approach to global history begins with the Paleolithic Era and the first civilizations, continues with an examination of classical societies, including Ancient Greece and Rome, and traces the expansion of trade networks and their global impact. The course emphasizes the key themes of interactions over time, shifts in political power, and the role of belief systems in society. Students will be exploring history through the use of both primary and secondary sources.

Credit: 1

250 Advanced Placement World History

This is a two year course culminating with the required Advanced Placement Examination in May of sophomore year. The course content is structured around the investigation of five course themes and 19 key concepts in six different chronological periods, from approximately 8000 BC to the present. Students will use critical and interpretive skills, as well as examine and analyze historical issues from a “big picture perspective”. Incoming freshman will be considered for the course based on TACHS Exam and State Testing. **You must successfully complete Advanced Placement World 9 in order to be considered for Advanced Placement World 10.**

Credit: 1

220 Global History & Geography 10

This course begins with a brief focus on the early 1700’s and provides a snapshot of world circa 1750. The course continues chronologically up to the present. Several concepts are woven throughout the course including industrialization, nationalism, imperialism, conflict, technology, and the interconnectedness of the world. The last four key ideas focus on global issues. A New York State Regents examination, which will cover the work of both Grades 9 and 10 will be administered in June. **The Passing of the Regents is mandated in order to meet graduation requirements.**

Credit: 1

230 United States History & Government

This course is a study of American History with concentration on the Constitution and a chronological development from 1607 to the present. Both content and concepts will be stressed. A Regents Exam will be required of all students taking this course. The passing of this Regents Exam is mandated in order to meet graduation requirements.

Credit: 1

240 Advanced Placement United States History

The Advanced Placement course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. The course is in line with college and university United States History survey courses'. The student is required to take the Advanced Placement exam in May and the United States History and Government Regents in June. **A summer assignment is to be completed and submitted on the first day of class. Qualifying students may take this course for Saint Francis College credit.**

Credit: 1

248 Introduction to Economics (2 Quarters)

This course examines the principles of the United States free market economy and its history within a global context. Students will analyze the role of supply and demand in determining the prices individuals and businesses face in the product and factor markets. Students will explore the role of entrepreneurs in our economy and participate in an interactive project, using Google Apps for Education. Students will also explore the challenges facing the United States free market economy and various policy-making opportunities available to government to address these challenges through discussion of current events as they relate to economic theory. Students will examine their individual responsibility for managing their personal finances. **This course is required for graduation.**

Credit: ½

246 Participation in Government and Civics (2 Quarters)

This course examines the foundations of our American democracy, calling attention to the importance of voting and other methods of participation in government and civic life. All levels of government are encompassed within the course affording the opportunity to utilize local resources. It is designed to give students the understanding of how and why certain actions are taken and the impact of these actions on their personal lives. **This course is required for graduation.**

Credit: ½

244 Street Law and Modern Politics

Students will explore the topics of law that are particularly relevant to their lives and examine the current political landscape. The Street Law section of the course introduces students to the basics of the legal system, ethics, criminal law and juvenile justice, torts, consumer and housing law, family law and individual rights and liberties. Modern Politics will discuss the history, thought and debate of contemporary politics, preparing them for a more active and educated citizenship.

Credit: 1

260 Introduction to Child Development

This course is designed according to the standards of the NAEYC in the study of the young child from birth to age eight. The student will study the developmental theories for the cognitive, emotional, and physical growth of the young child. Geared toward students interested in careers in social work, education, pediatrics, psychology, and nursing. The course will present research-based evidence discussion and theories of development in a variety of formats. . **Qualifying students may take this course for Saint Francis College credit.**

Credit: 1

270 World Culture and the Role of Women

This course focuses on the roles women play in specific areas of the world including: The Far East, Middle East, Western Europe, and the United States. It will examine the social, political, and economic impact the region has on the lives of women to present day. It will consider the implications of footbinding, child marriage, and struggle for gender equality in education. It will also explore how women continue to shape the development of these regions. The course will include analyzing documentary films, examining modern literary writings, and discussing current scholarly articles related to the topic.

Credit: 1

272 Introduction to Business: Business Management & Marketing

Students will be introduced to financial accounting and its principals, balance sheets, income statements, statements of cash flows, valuation of inventories, the time value of money and depreciation. The management component will focus on the managerial process and its techniques, leadership, motivation and teamwork, organizational structures and designs, globalization and international business, diversity, ethics and social responsibility. Students will also learn marketing concepts and research methods, product development, segmentation and target marketing, advertising, retailing, competitive intelligence and social and political marketing. **Qualifying students may take this course for Saint Francis College credit.**

Credit: 1

275 Introduction to Entrepreneurship

This course is designed to introduce students to the different types of entrepreneurship that exist, and the excitement and challenges of building your own business. It focuses on identifying and evaluating entrepreneurial opportunities, as well as identifying what it takes to get a new venture off the ground. The course is enriched with real-life examples, including personal stories from local entrepreneurs and case studies of start-ups. It emphasizes active, hands-on learning, and student teams will get a taste for starting and running a company via a team start-up project. The class will meet for an hour after school once a week. **Qualifying students may take this course for Saint Francis College credit.**

Credit: 1

276 Criminology (online)

This course introduces students to the field of criminology, the study of crime. Students look at possible explanations for crime from psychological, biological, and sociological perspectives. Students will investigate how the criminal justice system handles criminals and their misdeeds.

Credits: ½

488 Advanced Placement Psychology (online)

This introductory college level course surveys the major topics of psychology. Students will learn terminology, methodology and the historical and current understand of human behavior and thought processes. Students learn how psychologists analyze human experiences and apply what they have learned.

Credit: 1

Guidance Department

The goal of the Guidance Department is to assist our students in having the most successful and rewarding school experience possible - academically, socially, and spiritually.

We offer academic counseling on all four levels. Through the use of Naviance, a special software, we assist students in all aspects of academic life. Of particular importance is college advisement. This includes the application process, resume/profile creation and college essay development. One-hundred percent of Fontbonne graduates go on to higher education. Over the past year Fontbonne graduates have earned over 20 million dollars in scholarships.

Personal counseling is also available either by teacher or parent referral or by interest of the individual student.

St. John's University College Advantage Program (CAP)

SJU Liaison for CAP – Miss M.T. DeLuca

Courses Eligible for College Credit: Grade 12

- ☐ Calculus (Fall and Spring Semesters – 6 credits)
- ☐ Pre-Calculus (Fall – 3 credits)
- ☐ Pre-Calculus Honors (Fall – 3 credits)
- ☐ Honors Analysis (Fall and Spring -- 6 credits)
- ☐ Italian 4 (Fall and Spring – 6 credits)
- ☐ Spanish 4 (Fall and Spring – 6 credits)
- ☐ College Religion (Religion 12) (Fall – 3 credits)
- ☐ College English (English 12) (Fall and Spring – 6 credits)
- ☐ Anatomy & Physiology (Fall and Spring – 6 credits)
- ☐ Forensics (Fall and Spring – 6 credits)

Eligibility Requirements:

- ☐ A minimum of an 80% cumulative average in each of the five major subjects: English, Foreign Language, Mathematics, Science and Social Studies.
- ☐ A minimum of 500 (verbal) and 500 (math) on the SAT (The writing component will not be included) or a minimum score of 21 on the ACT*.

Courses Eligible for College Credit: Grade 11

- ☐ Calculus
- ☐ Pre-Calculus
- ☐ Pre-Calculus Honors
- ☐ Italian 4
- ☐ Spanish 4

Eligibility Requirements:

- ☐ A minimum of an 85% cumulative average in each of the five major subjects.
- ☐ A minimum of 500 (verbal) and 500 (math) on the PSAT. (The writing component will not be included) or a minimum score of 21 on the ACT*.

*Note: If a student chose not to report her SAT and/or ACT scores to Fontbonne Hall Academy, it is her responsibility to provide a legitimate copy of her scores to the SJU Liaison to prove her eligibility.

A student may take up to 3 courses (9 credits) a semester.

The cost of each course will be \$325

*Students who enroll in St. John's University receive a \$2,000 tuition grant for each of the four years of their undergraduate study.

Saint Francis College Bridge Program

Courses Eligible for College Credit (To Be Determined)

- ☐ Introduction to Child Development
- ☐ Business Management and Marketing (Bridge Course Business 1001 Organization and Management)
- ☐ Entrepreneurship Program (Bridge to Introduction to Entrepreneurship)
- ☐ AP United States History (Bridge Course: History of the United States 1896 – present)
- ☐ English 12 (Bridge Course: Writing in the Public Sphere)