

OUR LADY OF MERCY ACADEMY
Course Catalog 2010 - 2011



MISSION STATEMENT

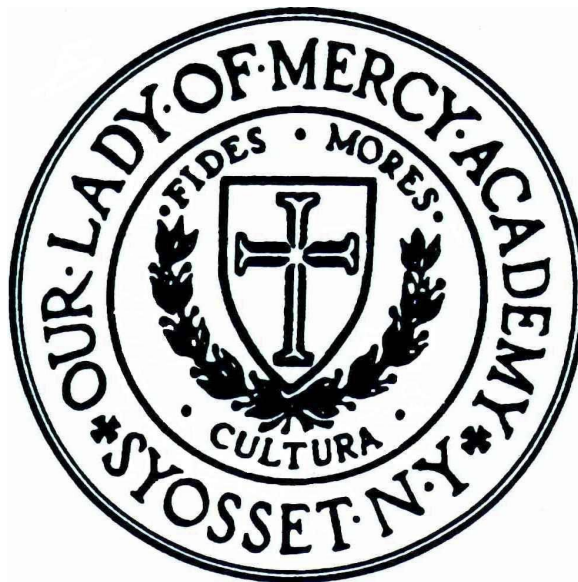
Founded in 1928 as a Catholic college preparatory school for young women, Our Lady of Mercy Academy is dedicated to providing a comprehensive education that is permeated with the charism of Catherine McAuley, foundress of the Sisters of Mercy.

In response to the challenge of the Gospel, the faculty and staff of Our Lady of Mercy Academy work to educate students in a holistic fashion within a compassionate environment of reverence for one another and for the world.

Each student is challenged to develop her God-given gifts **IN ORDER TO** become an authentic witness of Mercy in the global community of the 21st century.

Curriculum Manual

This Curriculum Manual is presented to assist the student and her parents in understanding the courses offered at Mercy. Wise, carefully planned choices made now will help to ensure happiness and success for the student during her high school career and will assist her in being and becoming a vital member of the total Christian community.



HOW TO USE THIS GUIDE

1. READ ALL THE REQUIREMENTS FOR YOUR GRADE LEVEL.
2. CHECK THAT YOU HAVE ALL THE NECESSARY PRE-REQUISITES FOR THE COURSES YOU ARE SELECTING.
3. MEET WITH YOUR GUIDANCE COUNSELOR BEFORE SUBMITTING YOUR COURSE SELECTIONS.

4. IN MAKING YOUR SELECTIONS, ALWAYS KEEP IN MIND THE REQUIREMENTS FOR GRADUATION AND YOUR FUTURE PLANS.

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Our Lady of Mercy Academy's graduation requirements encompass and surpass the minimum expectations of New York State Board of Education.

REQUIREMENTS FOR GRADUATION

Our Lady of Mercy Academy

Curriculum	Credits
Art	1
English	4
*Computer Technology	0.5
Health	0.5
Language	3
Mathematics	3
* Music	1
Physical Education	2
Science	3
Social Studies	4
Theology	4
*Electives	3

*Our Lady of Mercy Academy's requirement of 1 credit of music and 0.5 credit in Computer Technology combined with its 3 credit elective requirement exceeds New York State's elective requirement for a Regents Diploma and meets the elective requirement for an Advanced Regents Diploma.

NEW YORK STATE REQUIREMENTS FOR GRADUATION

The state issues both a Regents and Advanced Regents Diploma.

		Regents Diploma	Advanced Regents Diploma
COURSES	English	4	4
	Social Studies	4	4
	Mathematics	3	3
	Science	3	3
	Health	0.5	0.5
	The Arts	1	1
	Core Credits	15.5	15.5
	Lar Other than English	1	**
	Physical Education	2	2
	Se Courses/Electives	3.5	4.5
TO Required (minimum)	22	22	
EXAMINATIONS	RE English	Yes	Yes
	RE Mathematics	Yes	Yes
	RE Mathematics	No	Yes
	RE History & Geography	Yes	Yes
	RE History & Government	Yes	Yes
	RE Science	Yes	Yes
	RE Science	No	Yes
	Lar Other than English	Yes	Yes

REQUIRED UNITS OF CREDIT

MINIMUM TESTING REQUIREMENTS

** To earn the advanced designation, the student must complete one of the following:

1. A language other than English (3 credits)
2. The arts (5 credits)

HONOR ROLL

To be eligible for the Principal's List, First or Second Honors, the following requirements must be met:

1. Principal's List: 95% average > no failures
2. First Honors: 92% average > no failures
3. Second Honors: 88% average > no failures
4. A minimum of 4 academic subjects.

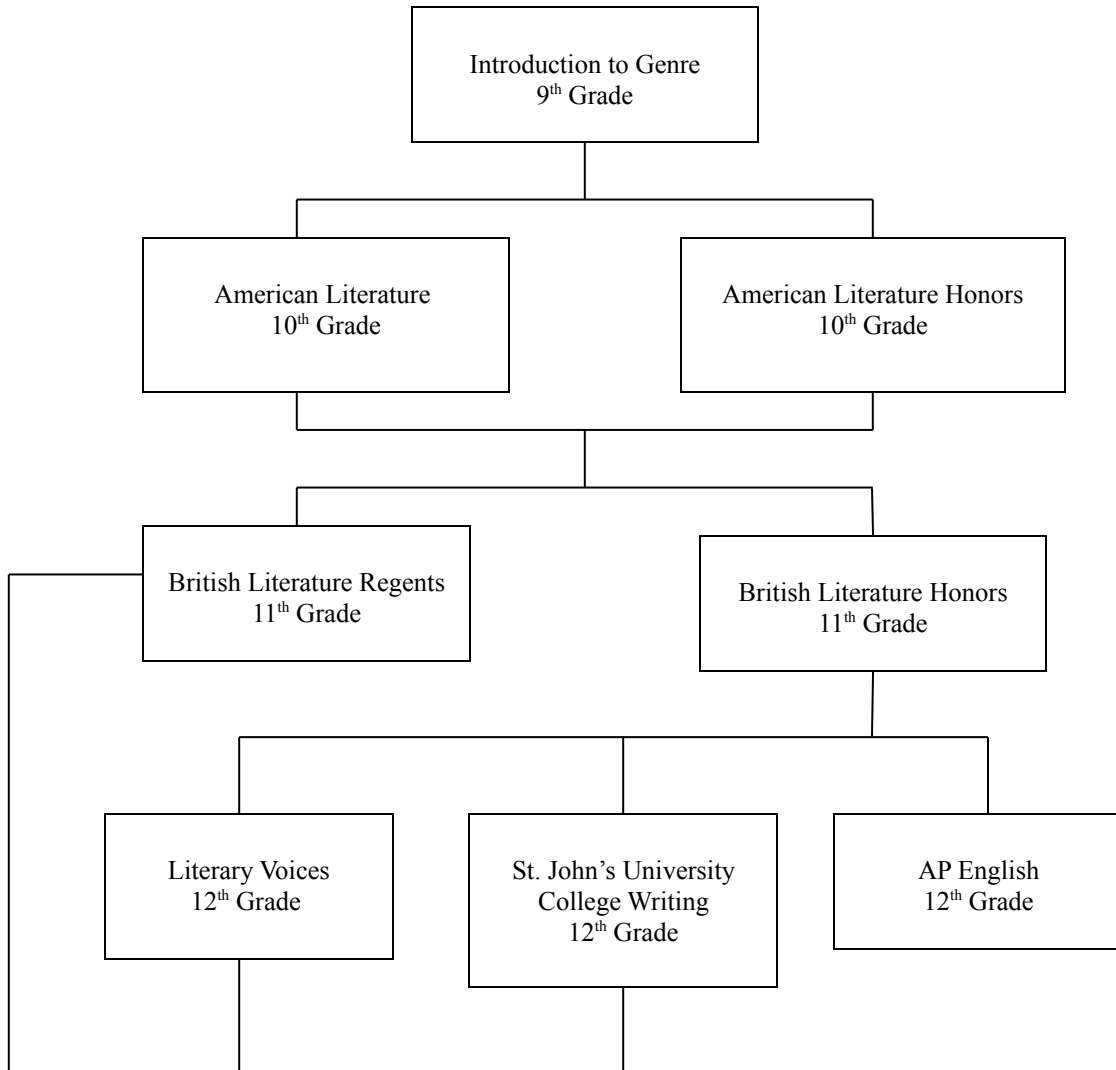
ACADEMIC AWARDS

Students attaining Principal's List, First or Second Honors receive certificates of merit for each marking period.

REGISTRATION/COURSE SELECTION

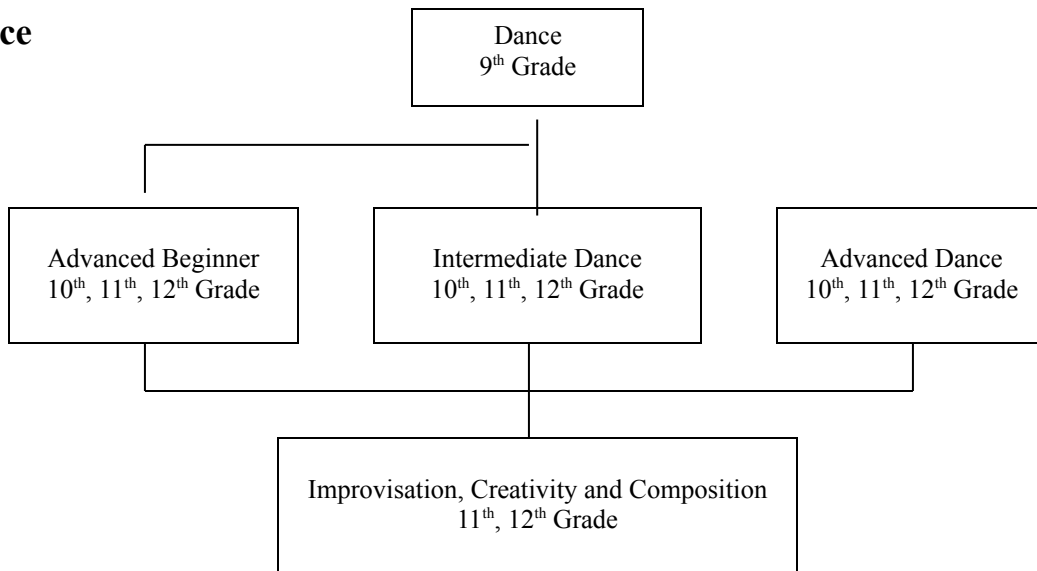
Course selection for the following year takes place in February. Students are assisted by their Guidance Counselor and their teachers to plan for the appropriate program. Students receive their class programs during the first week of school in September. Once schedules are set, there will be no changes.

**ENGLISH DEPARTMENT
CURRICULUM FLOW CHART**

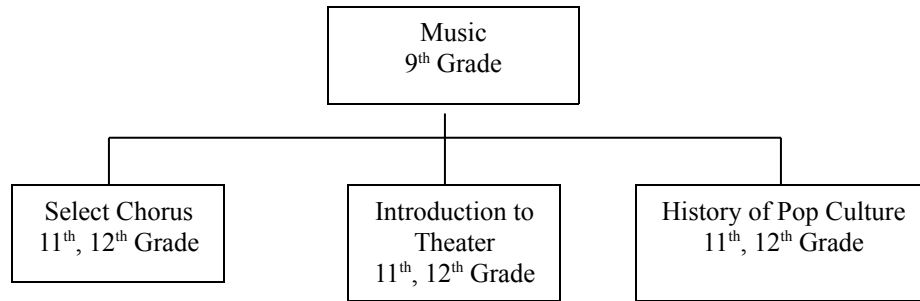


FINE ARTS DEPARTMENT CURRICULUM FLOWCHART

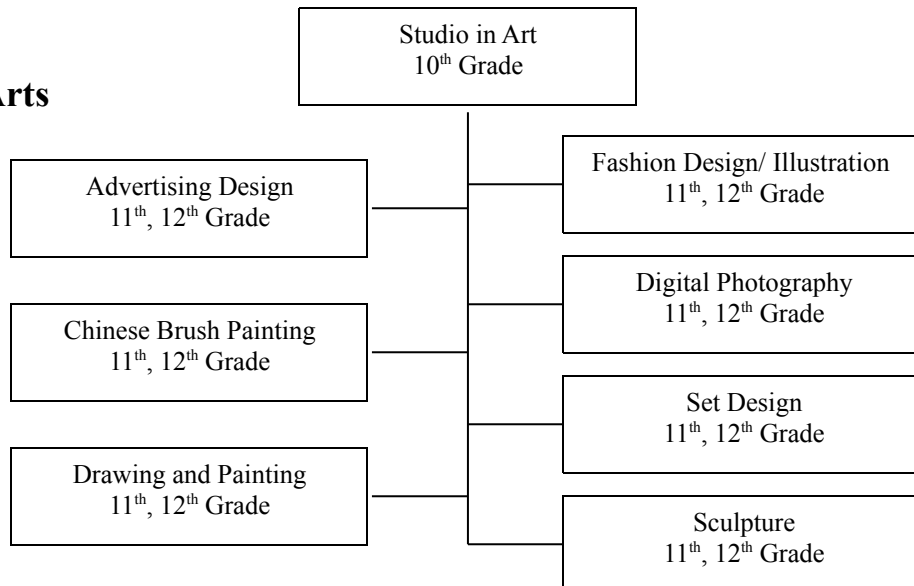
Dance



Music

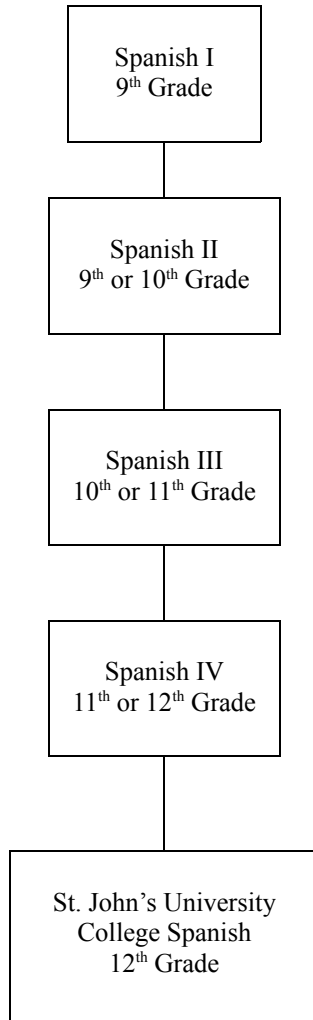


Visual Arts

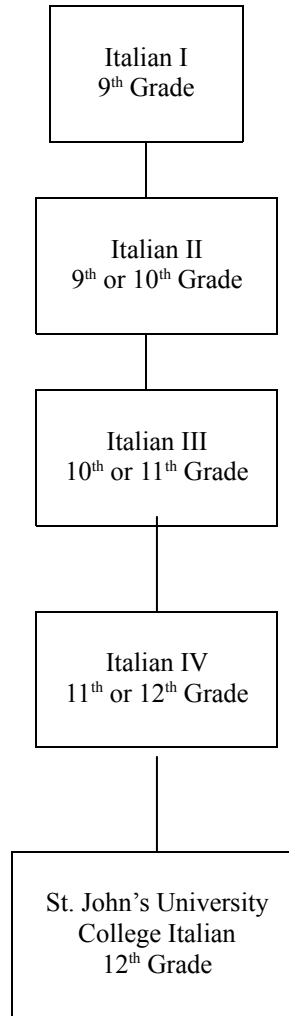


**FOREIGN LANGUAGE DEPARTMENT
CURRICULUM FLOW CHART**

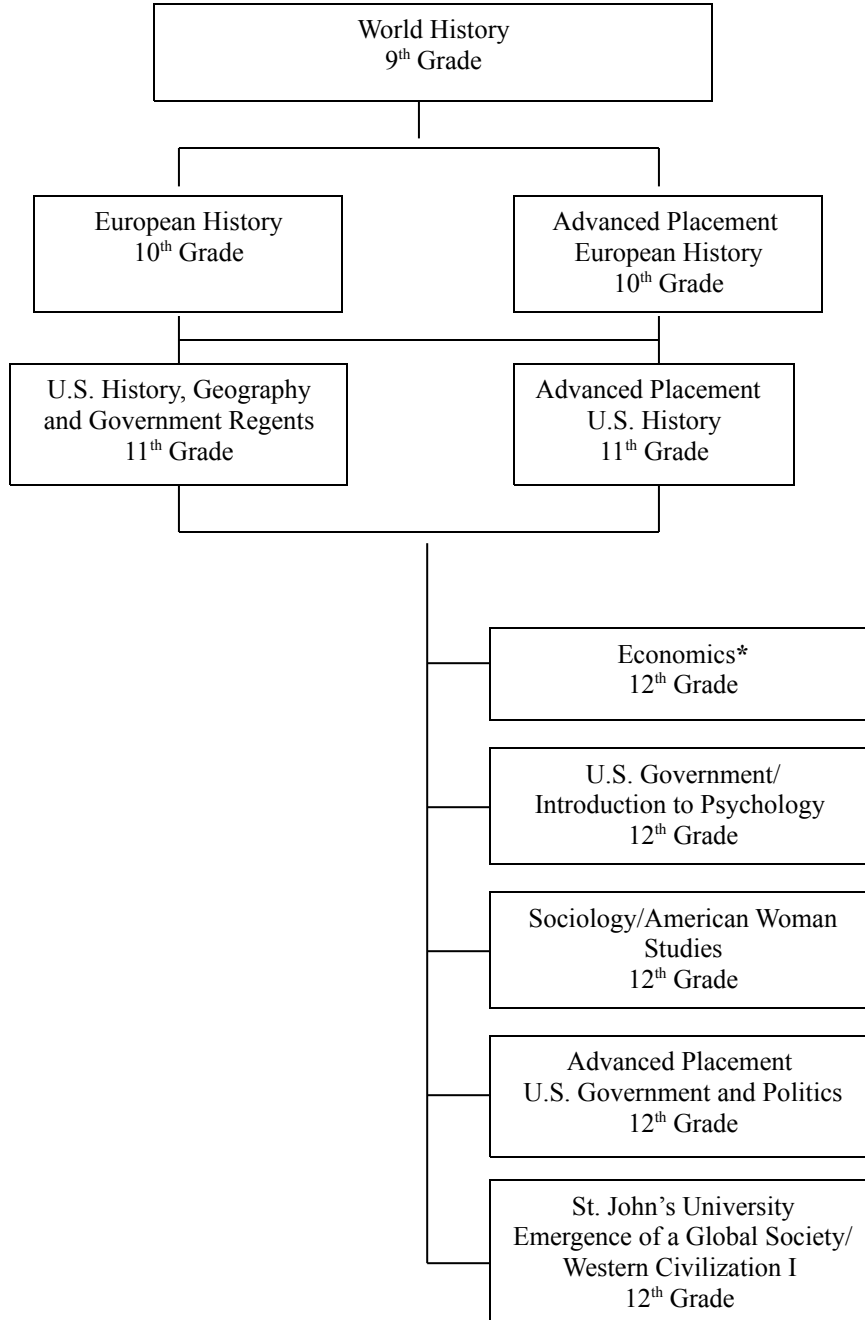
SPANISH



ITALIAN

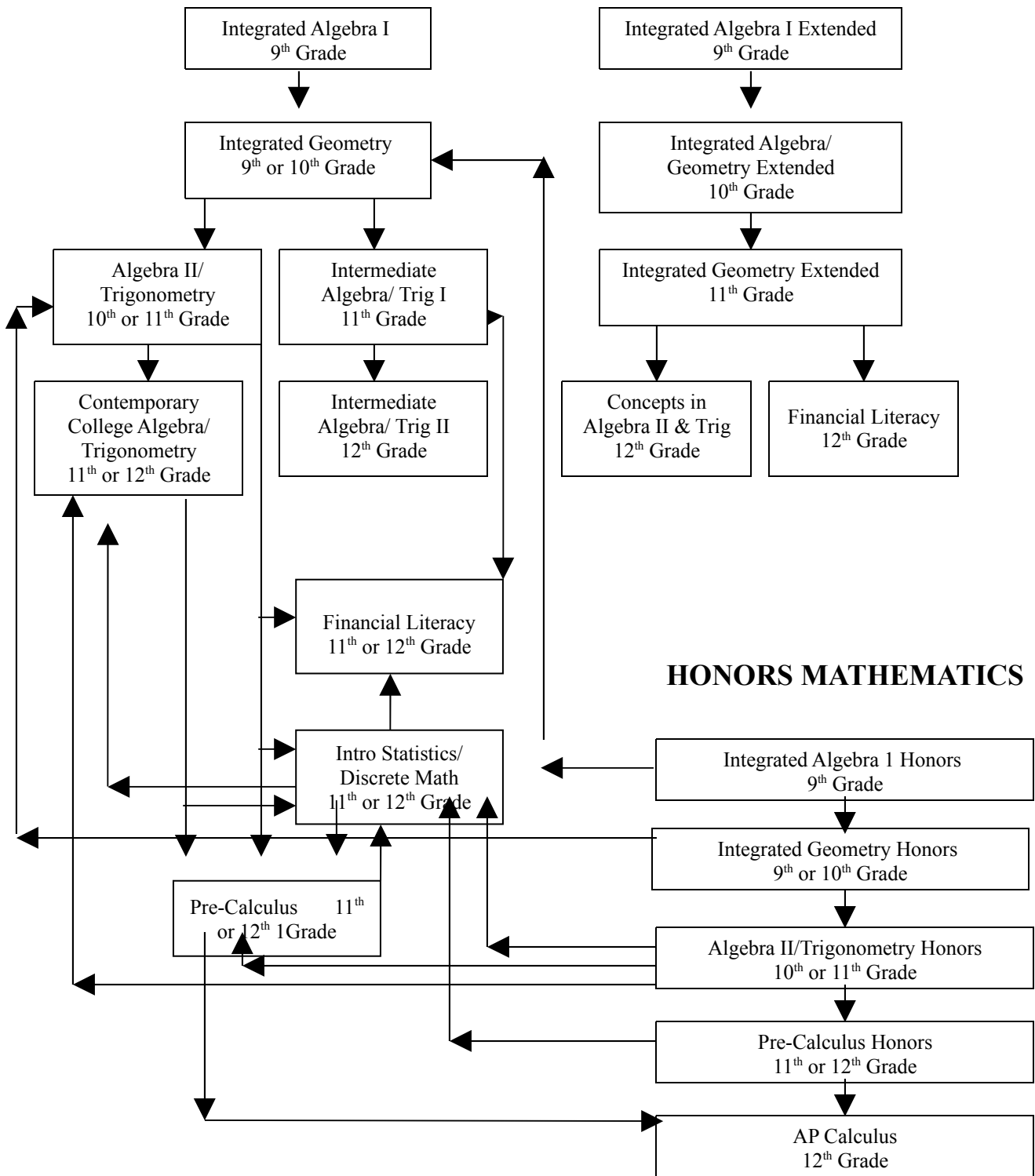


**HISTORY AND SOCIAL SCIENCES DEPARTMENT
CURRICULUM FLOWCHART**

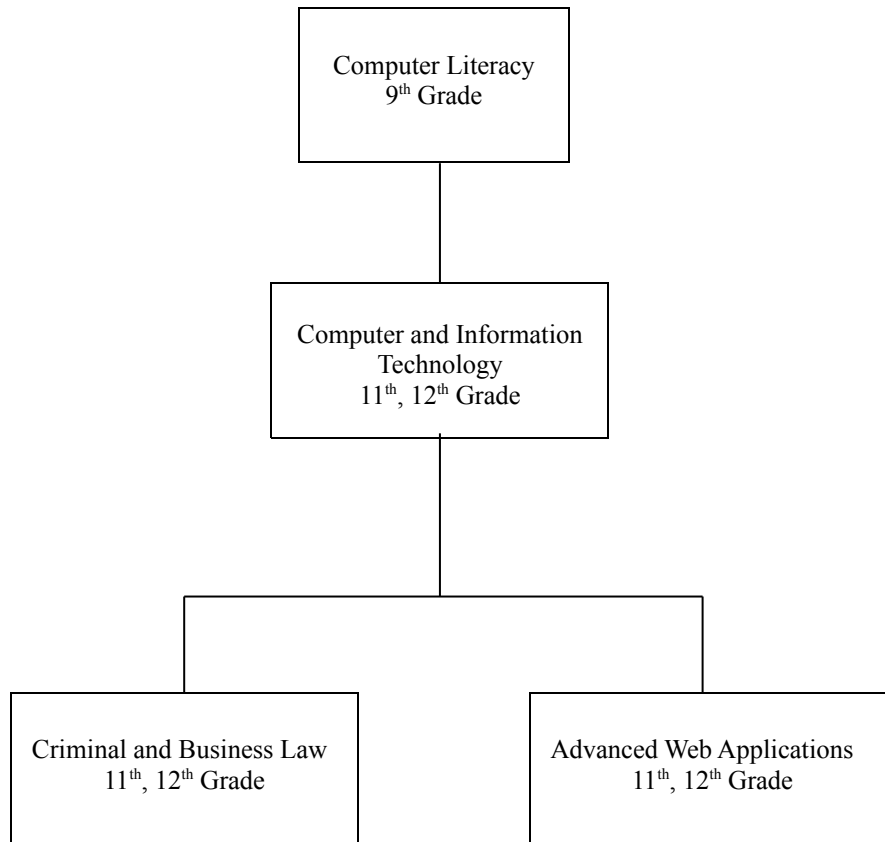


* See Pre-Requisite on Page 21

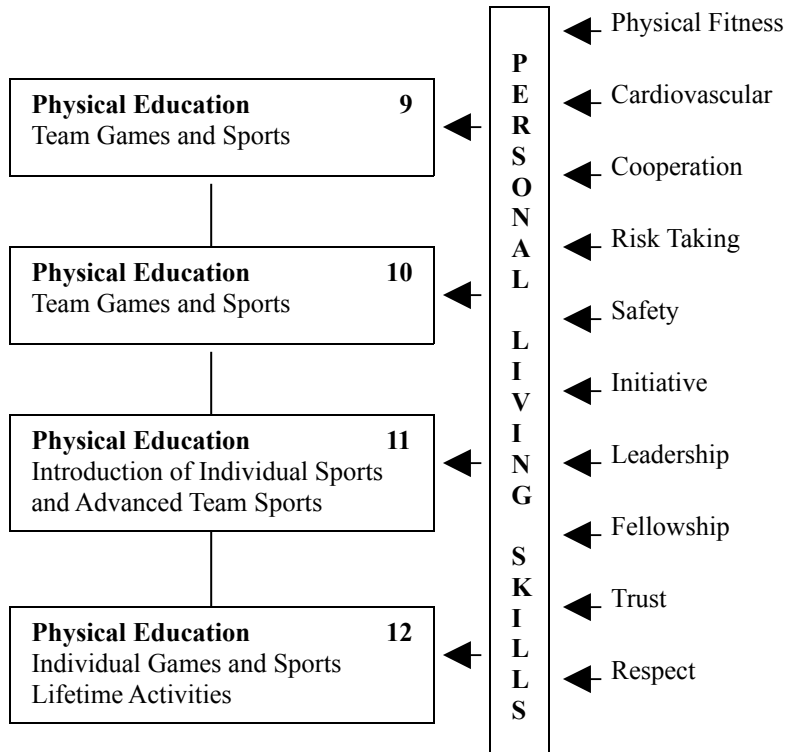
MATHEMATICS DEPARTMENT CURRICULUM FLOW CHART



MATHEMATICS BUSINESS TECHNOLOGY DEPARTMENT
CURRICULUM FLOW CHART

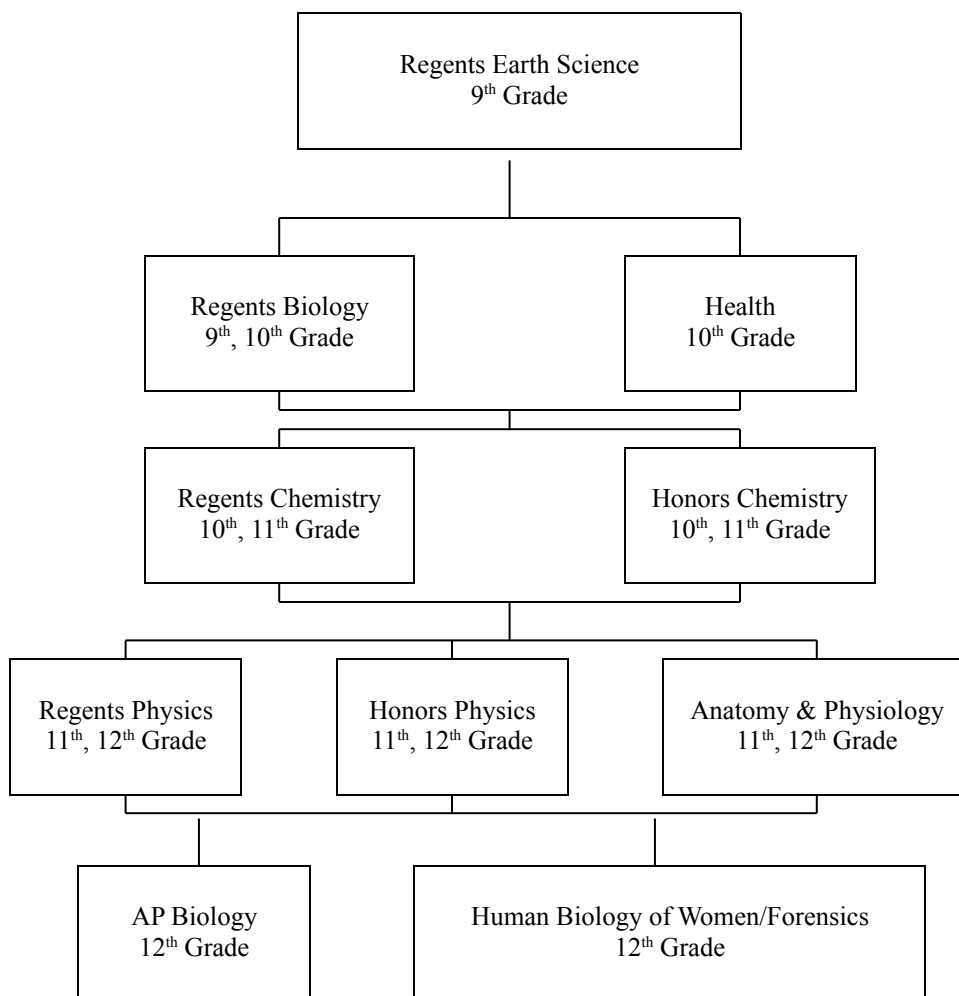


PHYSICAL EDUCATION DEPARTMENT CURRICULUM FLOW CHART

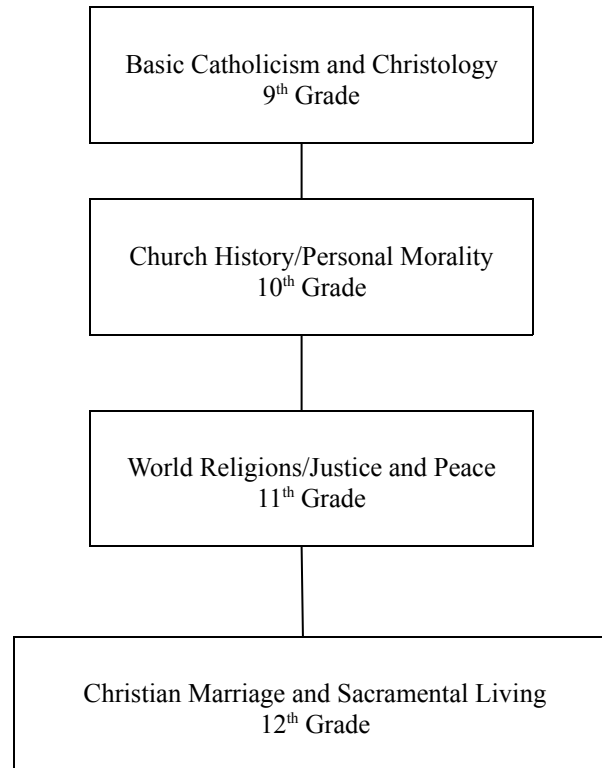


SCIENCE DEPARTMENT CURRICULUM FLOW CHART

Most students take Regents Earth Science beginning in the 9th Grade. Certain accelerated students may begin their high school sequence with Regents Biology.



THEOLOGY DEPARTMENT
CURRICULUM FLOWCHART



ENGLISH

Intro to Genre Grade 9 - 3131

Credit 1.00

This course studies various literary genres and literary techniques. Writing skills are developed through the study of vocabulary and grammar. Note taking skills are developed throughout the year. Writing folders containing students' writing samples are started in English 9. These folders follow the students from freshman to senior year.

American Literature Grade 10 - 3232

Credit 1.00

This is a survey course covering American literature from Colonial times to the contemporary period. Representative works from a variety of literary movements are studied. Students continue to develop their reading comprehension and verbal skills. Listening and written skills are also focused on in preparation for the New York State Regents Examination.

Pre-Requisite: Passing English 9

American Literature Honors Grade 10 - 3252

Credit 1.00

This is a survey course in American literature. It offers an in-depth study of major American literary works reaching from our Puritan past to the turn of the 21st century. The class tracks consistent American themes such as self-improvement, morality, and humanity's relationship with nature, justice, and progress. Critical analysis of text and time periods is practiced. There is an emphasis on developing advanced written and oral presentation skills, as well as the student's capacity for effective group work. Finally, an effort is made to involve music and video parallels in order to tap into the multi-media approach of modern education.

Pre-Requisites: Department Approval
90% Average in 9th Grade English
Demonstration of proficiency in writing

British Literature Regents Grade 11 - 3342

Credit 1.00

This course offers a survey of British literature from the Anglo-Saxon period to the present. Students are encouraged to read for personal, social, cultural and historical significance of a given literary text. There is a continued focus on listening, writing and reading skills in preparation for the New York State Regents Examination.

Pre-Requisite: Passing English 10

British Literature Honors Grade 11 - 3352

Credit 1.00

This course offers a survey of British literature from the Anglo-Saxon period to the present. Students study representative works from different literary periods in order to understand the development of different styles and techniques. Emphasis is on critical reading and analytical writing skills. There is a continued focus on listening, writing and reading skills in preparation for the New York State Regents Examination.

Pre-Requisites: Department Approval
90% Average English 10 Regents
85% Average English 10 Honors
Demonstration of proficiency in writing

Literary Voices Grade 12 - 3432

Credit 1.00

This course is designed to prepare the senior for future college studies in prose, poetry and drama. Students read representative works from world literature to explore and appreciate the personal, social, cultural and historical significance of the diverse texts. The course continues the development of literary analysis skills through writing the expository essay and a formal research paper using the MLA format.

Pre-Requisite: Passing English 11

Advanced Placement English Grade 12 - 3471

Credit 1.00

This course in college literature and writing follows guidelines set down by the College Entrance Examination Board. Critical analysis and extemporaneous writing skills are emphasized. The course involves a heavy reading schedule. Students write response papers critiquing literary works, as well as a formal research paper. A qualifying grade in the Advanced Placement Examination may earn college credit.

All students who sign up for this course must take the AP examination in May.

AP Examination Fee: \$84.00 (Subject to change)

Pre-Requisites: Department Approval
85% Average in English 11 Honors
Demonstration of proficiency in writing

FINE ARTS

Music Grade 9 - 1131

Credit 1.00

This is an introductory course, with emphasis placed on music appreciation, ensemble work, music reading techniques, and music technology. Grade 9 music students have the option of participating in an after school choral group that performs twice a year.

Select Chorus Grade 11, 12 - 1211

Credit .50

This is a performance group giving two concerts a year. Emphasis is placed on ensemble work and development of voice projection, as well as music reading techniques, and ear training.

Pre-Requisite: Audition

Improvisation, Creativity and Composition Grade 11, 12 - 1313

Credit .50

This course explores the multitude of avenues for improvisation and helps students discover different ways to ignite their creativity. Students integrate their new found movement vocabulary with the tools of choreography to create exciting and original dance pieces.

Pre-Requisites: 9th Grade Dance
Department Approval

Co-requisite: Advanced Beginner, Intermediate or Advanced Dance

History of Pop Culture Grade 11, 12 - 1215

Credit .50

This course provides an introduction to critical issues and approaches in the study of recent American pop culture. It will explore the ways in which members of society are both used and influenced by popular culture. Pop culture influences thoughts, feelings, and lifestyles. Television, film, advertising, popular music and computer cyber culture will be included. Critical factors such as ethnicity, race, gender, class, age and religion will be analyzed in the context of current culture.

Pre-Requisites: Passing Music 9

Studio in Art Grade 10 - 1231

Credit 1.00

This course is an introduction to the fundamental principles of the visual arts. It covers the nature of art, the elements which comprise a work of art, and certain movements and trends in the world of art. A wide variety of studio experiences are presented. Students are encouraged to experiment with various media and evaluate their progress. A Museum trip is required.

Drawing and Painting Grade 11, 12 - 1341

Credit 1.00

This is an advanced elective course. It develops a foundation of exploratory experiences in drawing and painting. The student is introduced to a wide variety of media. Her ability to draw and paint is encouraged through work in pencil, charcoal, ink, pastels, watercolor, acrylic, and mixed media. Museum trips are required.

Pre-Requisites: Studio in Art
Portfolio Presentation
Department Approval

Advertising Design Grade 11, 12 - 1342

Credit 1.00

This advanced elective covers the development of advertising, its functions and the design processes involved. The emphasis is on the fundamental principles of applied design and visual thinking about creative solutions to design problems. Although not a computer graphics course, computers are used for typography and their use is encouraged in design projects.

Pre-Requisites: Studio in Art
Portfolio Presentation
Department Approval

Sculpture Grade 11, 12 - 1441

Credit 1.00

Sculpture is an advanced course. Students are introduced to a variety of materials used in sculpture, the techniques, and the history. This course emphasizes the realistic and imaginative approach to the problems of anatomy, design and form.

Pre-Requisites: Studio in Art
Portfolio Presentation
Department Approval

Chinese Brush Painting Grade 11, 12 - 1442

Credit 1.00

This course presents a study of authentic Asian Brush Painting. It develops the students' awareness of the Chinese culture through its history and painting techniques using traditional Asian brush materials for painting.

Pre-Requisites: Studio in Art
Portfolio Presentation
Department Approval

Digital Photography Grade 11, 12 - 1443

Credit 1.00

This course addresses the fundamentals of digital photography, from taking pictures to basic manipulations using Photoshop Elements. Students will discuss the compositional elements of photographs, learning how to crop and edit. Photographs will also be used as reference for mixed media projects.

Students **must** provide their own digital cameras, memory cards, flash storage devices and CDRs.

Pre-Requisites: Studio in Art
Portfolio Review
Department Approval

Fashion Design/Illustration Grade 11, 12 - 1444

Credit 1.00

This advanced elective introduces the methods of illustration for the basic fashion design sketch. Students learn to communicate design ideas by illustrating apparel/accessory details using a variety of media. Designs will be developed through study of past fashion periods and current fashion styling, as well as exploring the fashion business itself. Design journals will be developed.

Pre-Requisites: Studio in Art
Portfolio Presentation
Department Approval

Set Design Grade 11, 12 - 1331

Credit 1.00

This advanced course has been created for dedicated students who are interested in the process of creating stage sets for productions as well as studying the art of set design. During this year-long class, students study traditional and contemporary methods of set design used by professionals. Students are responsible for designing their own prototypes of sets for familiar plays and musicals and also are instrumental in the creation of sets, props, and backdrops for OLMA's productions. Students will also be challenged to create designs for other types of spaces.

Pre-Requisites: Studio in Art
Portfolio Review
Department Approval

Introduction to Theater Grade 11, 12 - 1232

Credit .50

This performing arts elective is designed as a survey course, which presents the fundamental concepts of the history of theater from Greek and Roman times through 21st century American theater; technical theater including sets, lights, props, costumes and make-up; acting techniques including scene work and improvisation; and the development of musical theater from vaudeville through traditional musicals. Trips are taken to see live performances in drama and/or musical theater.

Pre-Requisite: Passing Music 9

Requirement: Participation in Festival of the Arts Performance and attendance at a LI Regional Theater Performance

Advanced Beginner Dance Grade 10, 11, 12

See Physical Education section for description.

Intermediate Dance Grade 10, 11, 12

See Physical Education section for description.

Advanced Dance Grade 10, 11, 12

See Physical Education section for description.

FOREIGN LANGUAGE

Spanish I Grade 9 - 4131

Credit 1.00

or

Italian I Grade 9 - 4141

Credit 1.00

This course provides a foundation in conversation, pronunciation and oral drill in conjunction with grammatical structure and an introduction to simple composition. The cultural settings for these languages are also studied.

Spanish II Grade 9, 10 - 4231

Credit 1.00

or

Italian II Grade 9, 10 - 4241

Credit 1.00

This course builds on the skill of the first level with a broader emphasis on grammatical structure and vocabulary.

Pre-Requisite: Passing Level I or 80% on Placement Exam

Spanish III Regents Grade 10, 11 - 4341

Credit 1.00

or

Italian III Regents Grade 10, 11 - 4343

Credit 1.00

This course presents an integration of the four skills: comprehension, speaking, reading, and writing. Students take the New York State Regents exam in June.

Spanish IV Grade 11, 12 – 4431

Credit 1.00

This course is designed to meet the needs of those students who want to further their study of Spanish although not at this point on the level of College Spanish.

A continuation of Spanish III, the course involves the four skills of language learning: speaking, reading, writing, and listening comprehension. Analysis of Spanish films and knowledge of Hispanic Culture are also part of the course. The aim and objectives of this course is to continue building aural-oral proficiency, to promote more advanced reading and writing skills, and to expand appreciation of Italian civilization and culture, thereby broadening cultural perspective.

Pre-Requisite: 80% average in Spanish III in the first semester
Passing the Midterm Exam
Teacher Recommendation

Italian IV Grade 11, 12 - 4441

Credit 1.00

This course is designed to meet the needs of those students who want to further their study of Italian although not at this point on the level of College Italian.

A continuation of Italian III, the course involves the four skills of language learning: speaking, reading, writing, and listening comprehension. The aim and objectives of this course is to continue building aural-oral proficiency, to promote more advanced reading and writing skills, and to expand appreciation of Italian civilization and culture, thereby broadening cultural perspective.

Pre-Requisite: 80% average in Italian III in the first semester
Passing the Midterm Exam
Teacher Recommendation

HISTORY AND SOCIAL SCIENCES

World History Grade 9 - 8132

Credit 1.00

This course is a comprehensive thematic study of history. It starts with the beginning of early civilization and ends with 20th Century contemporary world cultures. The course includes skill development and the use of primary source materials. This program culminates in a New York State Regents Examination at the conclusion of 10th Grade. The Advanced Placement World Examination may be available to selected students in May.

European History Grade 10 - 8242

Credit 1.00

This course is a comprehensive study of Western European civilization from its inception to the 20th Century era of globalization. This course includes skill development and the use of primary source materials. This program culminates in a New York State Regents Examination in June.

Pre-Requisite: Passing Grade 9

Advanced Placement European History Grade 10 - 8271

Credit 1.00

This course is a chronological study of European History from the Renaissance to 20th Century contemporary trends. It includes the development of intellectual ideologies as well as the development of modern governmental systems. This course is taught as a college course complete with an intense work load and required examination time constraints. Students take the New York State Regents Examination and the Advanced Placement Exam. Students who achieve a qualifying grade on the Advanced Placement Examination may earn college credit.

A.P. Test Fee: \$84.00 (Subject to change)

Book Fee: \$50.00 (Payable in full in September)

Pre-Requisites: Teacher Recommendation
Department Approval

U. S. History, Geography, and Government Regents Grade 11 - 8341

Credit 1.00

The course is a conceptual approach to American History. This course includes skill development and the use of primary source materials. Students take the New York State Regents Examination in June.

Pre-Requisite: Passing Grades 9 and 10

Advanced Placement U.S. History Grade 11 - 8371

Credit 1.00

This is a chronological coverage of American History from Colonial times to the present. Students take the New York State Regents Examination and the Advanced Placement Examination. Students who achieve a qualifying grade on the Advanced Placement Examination may earn college credit.

A.P. Test Fee: \$84.00 (Subject to change)

Book Fee: \$50.00 (Payable in full in September)

Pre-Requisites: Teacher Recommendation
Department Approval
Above average skills in Interpretation and Extrapolation and above average scores in Social Studies Readings

Economics Grade 12 - 8438

Credit 0.5

This is a Mercy Network web-based curriculum that will also satisfy the New York State Social Sciences graduation requirement. This one-semester class will be given online and will emphasize basic macro and micro economic concepts and decision making.

Access Fee: \$25.00

Pre-Requisites: Passing Grade 11

U.S. Government/Introduction to Psychology Grade 12 - 8434

Credit 1.00

The U.S. Government segment emphasizes the interaction between citizens and government on local, State and Federal levels. It also encourages students to understand and participate in the democratic process.

The Introduction to Psychology component is designed to familiarize the student with the science of human behavior and mental states; the methods employed by psychologists; the experimental findings and applications of research. This course includes the study of learning, perception, cognition, intelligence, social influences, psychological disorders, physiological changes and developmental stages.

Pre-Requisite: Passing Grade 11
Enrollment in the Online Economics Course or Passing the Economics Variance Exam

Sociology/American Woman Studies Grade 12 - 8436

Credit 1.00

The Sociology segment emphasizes major theories, methodology and research findings of Sociology. This course will cover the nature, organization and development of modern society. Sociological examination of varied forms of group life, including small groups, families, bureaucracies, formal organizations, social classes and ethnic groups will be discussed along with the analysis of social process and social change.

The American Woman Studies segment is a conceptual analysis of woman's roles in American History from the Colonial to the Modern era.

Pre-Requisite: Passing Grade 11

Enrollment in Online Economics Course or Passing the Economics Variance Exam
Concurrent with U.S. Government

Advanced Placement U.S. Government and Politics 12 - 8475

Credit 1.00

The Advanced Placement U.S. Government and Politics course provides a college-level understanding of the American political system and its evolutionary struggle from its Constitutional inceptions through the present day. Students take the Advanced Placement Examination. Students who achieve a qualifying grade on the Advanced Placement Examination may earn college credit.

A.P. Test Fee: \$84.00 (Subject to change)

Book Fee: \$50.00 (Payable in full in September)

Pre-Requisites: Teacher Recommendation
Department Approval
Passing the US History Regents

MATHEMATICS

Integrated Algebra I Grade 9 - 5142

Credit 1.00

This course follows the State Core Curriculum for high school mathematics. Students will represent and analyze algebraically a wide variety of problem situations; perform algebraic procedures accurately; recognize, use, and represent algebraically patterns, relations, and functions. Topics include: Variables and Expressions, Equations and Inequalities, Patterns, Relations, and Functions, Coordinate Geometry, and Trigonometric Functions. Students are required to have a TI-Nspire graphing calculator. The cost is approximately \$125. **The New York State Integrated Algebra I Regents is administered in June.**

Pre-Requisites: Catholic High School Entrance Examination
OLMA Placement Exam

Integrated Algebra I Extended Grade 9 - 5142E

Credit 1.0

This course begins the State Core Curriculum for high school Mathematics. Students will represent and analyze algebraically a wide variety of problem situations; perform algebraic procedures accurately; recognize, use, and represent algebraically patterns, relations, functions, coordinate geometry, and trigonometric functions. Students are required to have a TI-Nspire graphing calculator. The cost is approximately \$125. **An OLMA school final examination is administered in June.**

Pre-Requisites: Catholic High School Entrance Examination
OLMA Placement Exam

Integrated Algebra I Honors Grade 9 - 5152

Credit 1.00

This honors course follows the State Core Curriculum for high school Mathematics but with a more demanding approach. Each topic is more fully explored, expanding the parameters of the syllabus wherever appropriate. Students will represent and analyze algebraically a wide variety of problem situations; perform algebraic procedures accurately; recognize, use, and represent algebraically patterns, relations, and functions. Topics include: Variables and Expressions, Equations and Inequalities, Patterns, Relations, and Functions, Coordinate Geometry, and Trigonometric Functions. Students are required to have a TI-Nspire graphing calculator. The cost is approximately \$125. **The New York State Integrated Algebra I Regents is administered in June.**

Pre-Requisites: Catholic High School Entrance Examination
OLMA Placement Exam

Integrated Geometry Grade 9, 10 - 5242

Credit 1.00

This course follows the State Core Curriculum for Integrated Geometry. The tools of geometry - methods of reasoning, construction, the coordinate plane, and types of measurement are all established first. The focus then is on the properties and application of lines, triangles, quadrilaterals, similarity, right angle trigonometry, transformations and circles. Students are required to have a TI-Nspire graphing calculator. The cost is approximately \$125. **The New York State Integrated Geometry Regents is administered in June.**

Pre-Requisites: Passing Integrated Algebra I

Incoming Freshman: 85% on the NYS Integrated Algebra Regents Exam
Proficiency on OLMA Placement Exam
Departmental Approval (Teacher Recommendation)

Integrated Algebra/Geometry Extended Grade 10 - 5242E

Credit 1.00

This course completes the Integrated Algebra I NYS Core Curriculum and begins the NYS Core Curriculum for Integrated Geometry. Students are required to have a TI-Nspire graphing calculator. The cost is approximately \$125. **The New York State Integrated Algebra Regents Exam is administered in January. An OLMA school final examination is administered in June.**

Pre-Requisites: Passing Integrated Algebra I Extended
Departmental Approval (Teacher Recommendation)

Integrated Geometry Extended 1 Grade 10 – 5232E

Credit 1.00

This course begins the State Core Curriculum for Integrated Geometry. The tools of geometry - methods of reasoning, construction, the coordinate plane, and types of measurement are all established first. The focus then is on the properties and application of lines, triangles, quadrilaterals, similarity, right angle trigonometry, transformations and circles. Students are required to have a TI-Nspire graphing calculator. The cost is approximately \$125. **An OLMA school final examination is administered in June.**

Pre-Requisites: Passing Integrated Algebra I
Departmental Approval (Teacher Recommendation)

Integrated Geometry Honors Grade 9, 10 - 5252

Credit 1.00

This course follows the State Core Curriculum for Integrated Geometry but with a more demanding approach. The tools of geometry - methods of reasoning, construction, the coordinate plane, and types of measurement are all established first. The focus then is on the properties and application of lines, triangles, quadrilaterals, similarity, right angle trigonometry, transformations and circles. Students are required to have a TI-Nspire graphing calculator. The cost is approximately \$125. **The New York State Integrated Geometry Regents is administered in June.**

Pre-Requisites: 90% in Integrated Algebra I Honors
95% in Integrated Algebra I
85% on the Integrated Algebra I Honors Midterm Exam
90% on the Integrated Algebra I Midterm Exam
Departmental Approval (Teacher Recommendation)

Incoming Freshman: 90% on the NYS Integrated Algebra Regents Exam
Proficiency on OLMA Placement Exam
Departmental Approval

Integrated Geometry Extended Grade 11 – 5342E

Credit 1.00

This course completes the NYS Core Curriculum for Integrated Geometry. The tools of Geometry – methods of reasoning, construction, the coordinate plane, and types of measurement are reviewed and/or completed. The focus then becomes the properties and application of lines, triangles, quadrilaterals, similarity, right angle trigonometry, transformations and circles. Students are required to have a TI-83 Plus graphing calculator. The cost is approximately \$90. **The New York State Integrated Geometry Regents Exam is administered in June.**

Pre-Requisite: Passing Integrated Algebra/Geometry Extended (5242E)
A passing grade on the NYS Integrated Algebra Regents Exam
Departmental approval (Teacher Recommendation)

Financial Literacy Grade 11, 12 - 5332

Credit 1.00

The purpose of this course is to assist students in learning to use mathematics effectively as a tool in their personal and business lives. How effectively one is able to use this important tool may determine how well one is able to prepare for the future, manage one's personal and business resources and benefit from one's efforts as a consumer, worker, or business person. Topics include: retail mathematics including buying and selling, personal business mathematics including wages and payroll, checking and savings accounts, charge accounts and credit cards, loans, housing costs, automobile costs, and taxes.

Pre-Requisites: Passing Integrated Geometry

Intermediate Algebra/Trigonometry I Grade 11 - 5333

Credit 1.00

This course begins with a review of elementary Algebra and continues with an in-depth study of the rational, irrational and real numbers. Additional topics will include selections from Intermediate Algebra, Geometry, and Trigonometry. Students are required to have a graphing calculator. A final examination is administered in June.

Pre-Requisites: Passing Integrated Geometry
Departmental Approval (Teacher Recommendation)

Intermediate Algebra/Trigonometry II Grade 12 - 5334

Credit 1.00

This course is a continuation of the study begun in Intermediate Algebra/Trigonometry I. The emphasis of the course is on Trigonometry and covers the following topics in Trigonometry: Trigonometric functions, graphs, equations, identities and applications. The following topics are also studied: Logarithmic functions, Complex Numbers, Probability and the Binomial Theorem. Students are required to have a graphing calculator. A final examination is administered in June.

Pre-Requisites: Passing Intermediate Algebra/Trigonometry I
Departmental Approval (Teacher Recommendation)

Concepts in Algebra II and Trigonometry Grade 12 – 5431

Credit 1.00

This course covers topics from both Intermediate Algebra as well as Trigonometry. Selections from Intermediate Algebra include Function Theory, Rational Expressions, Factoring, Exponentials, and Logarithms. The Trigonometry portion of the curriculum includes Trigonometric Functions, Graphs, Equations, Identities, The Law of Sines, and The Law of Cosines. Students are required to have a graphing calculator. A final examination is administered in June.

Pre-Requisites: Passing Integrated Geometry Extended
Departmental Approval (Teacher Recommendation)

Algebra II/Trigonometry Grade 10, 11 – 5342

Credit 1.00

This course covers all the topics from the New York State advanced regents curriculum. Topics include: trigonometry, probability and statistics (including the normal distribution, binomial distributions, and standard deviation), complex numbers, exponentials, logarithms, conic sections, transformation, and topics from Advanced Algebra (including function theory, matrices, and sequences and series). Students are required to have a TI-83 Plus graphing calculator. The cost is approximately \$90. **The New York State Algebra II/Trigonometry Regents Exam is administered in June.**

Pre-Requisites: 80% in both Integrated Algebra and Integrated Geometry
85% on the NYS Integrated Algebra Regents Exam
80% on the Integrated Geometry Midterm Exam
Departmental approval (Teacher Recommendation)

Algebra II/Trigonometry Honors Grade 10, 11 - 5352

Credit 1.00

This course is an intensive and accelerated paced course for those students who have achieved exemplary grades in both Integrated Algebra Honors and Integrated Geometry Honors. The student must have excellent work habits; excellent insight into the higher level mathematics topics discussed in class, and must possess a strong desire to learn for its own sake. This honors course covers all the topics of the Algebra II/Trigonometry course (5342) in much greater depth and with a more demanding approach. Students are required to have a TI-83 graphing calculator. The cost is approximately \$90. The New York State Algebra II/Trigonometry Regents Exam is administered in June.

Pre-Requisites: 88% in both Integrated Algebra Honors and Integrated Geometry Honors
90% on the NYS Integrated Algebra Regents Exam
88% on the Integrated Geometry Midterm Exam
Departmental approval (Teacher Recommendation)

Introduction to Statistics/Discrete Math Grade 11, 12 - 5441

Credit 1.00

Statistical methodology has become an integral component to such fields as engineering, education, agriculture, business, biology, medicine, fishery management, forestry, geology, communication, psychology, and ecology. The first two quarters of this course acquaints students with the fundamentals of statistics. The second two quarters, the student learns the principals of applied mathematics as they relate to occurrences in their in their daily lives. In lieu of a final exam the students are required to submit a research paper, presented in written form as well as delivered oral to the class. A TI-83 Plus graphing calculator is required. The cost is approximately \$90.

Pre-Requisites: Passing Algebra II/Trigonometry
Departmental approval (Teacher Recommendation)

Contemporary College Algebra and Trigonometry Grade 11, 12 - 5432

Credit 1.00

A review and extension of selected topics in Integrated Algebra, Integrated Geometry, and Algebra II/Trigonometry will be covered such as Trigonometry, Algebra and Analytic Geometry and Inequalities. In addition, time will be spent studying techniques of graphing, exponential and logarithmic functions, and an introduction to Discrete Algebra. This course is intended to provide the student with a foundation for college programs that may require further study of college mathematics. Use of a hand held graphing calculator (TI-83 Plus) will be an integral part of the course.

Pre-Requisites: 83% in Algebra II/Trigonometry
80% on Algebra II/Trigonometry Midterm
Departmental Approval (Teacher Recommendation)

Pre-Calculus Grade 11, 12 - 5442

Credit 1.00

The following selected topics from Integrated Algebra, Integrated Geometry, and Algebra II/Trigonometry are reviewed and extended: algebra, analytical geometry, trigonometry, and exponential and logarithmic functions. In addition, time is spent studying limits and theory of polynomials. These topics are explored using traditional methods and the TI-83 Plus graphing calculator. The cost is approximately \$90. A departmental final exam for this course is administered in June.

Pre-Requisites: 87% in Algebra II/Trigonometry
85% on the Algebra II/Trigonometry Midterm Exam
Departmental approval (Teacher Recommendation)

Pre-Calculus Honors Grade 11, 12 - 5451

Credit 1.00

This is an intensive and accelerated paced course for those students who have achieved exemplary grades in the Algebra II/Trigonometry Honors course. The student must have excellent work habits, excellent insight into the higher level mathematics topics discussed in class, and must possess a strong desire to learn for its own sake. This honors course covers selected topics of advanced algebra, analytical geometry, trigonometry, exponential and logarithmic functions, and the theory of polynomials. In addition, this honors course covers the first three topics of Calculus: limit theory, continuity, and differentiation. A TI-83 Plus graphing calculator is required. The cost is approximately \$90. A final exam is administered in June.

Pre-Requisites: 88% in Algebra II/Trigonometry Honors
88% on the Algebra II/Trigonometry Honors Midterm Exam
Departmental approval (Teacher Recommendation)

Advanced Placement Calculus Grade 12 - 5471

Credit 1.00

This is an intensive and accelerated paced course for those students who have achieved exemplary grades in the Pre-Calculus Honors course. The student must have excellent work habits, excellent insight into the higher level mathematics topics discussed in class, and must possess a strong desire to learn for its own sake. This advanced placement course covers the theory as well as the application of the topics as defined by the Advanced Placement Committee. Students are required to have a TI-83 plus graphing calculator. The cost is approximately \$90. The Advanced Placement Exam in Calculus is given in May.

A.P. Test Fee: \$84.00 (Subject to change)

Pre-Requisites: 88% in Pre-Calculus Honors
85% on Pre-Calculus Honors Midterm Exam
Department Approval (Teacher Recommendation)

MATHEMATICS BUSINESS TECHNOLOGY

Computer Literacy Grade 9 - 2112

Credit .50

This course is an enrichment course that introduces the student to the diversified uses of computers. The student becomes familiar with the workings of computers, including their hardware and software. The student is introduced to Microsoft Word, Excel, PowerPoint and Internet research techniques. The overall goal of this course is to enable the student to intelligently use the computer as an aid in research and study. This course is mandatory for graduation.

Computer and Information Technology Grade 11, 12 - 2334

Credit 1.00

This course teaches students advanced techniques in Microsoft Word, Excel and PowerPoint to aid them in their college studies. They will use graphics projects and PhotoShop to create simple web pages and web quests that will enhance other course work they are taking. Microsoft Photo Story will be used to create musical slideshow presentations and podcasts for OLMA.org.

Advanced Web Applications Grade 11, 12 - 2335

Credit 1.00

This is a comprehensive course focusing on Web and Graphic Design. Students learn HTML and how to create a fully functional website using industry standard Dreamweaver 8. Students also use Flash 8 to create navigation systems and animations for the web. Adobe Photoshop Elements and Premiere will be used to create graphics and video presentations and podcasts.

Criminal and Business Law Grade 11, 12 - 2441

Credit 1.00

This course is an introduction to the U.S. legal environment. The student is introduced to the study of law and legal issues that impact her daily life. The student explores such topics as the court systems in the U.S., the criminal justice system, criminal law, tort law, consumer law, and contract law. The student gains useful information to help her become a knowledgeable member of society.

PHYSICAL EDUCATION

Physical Education Grade 9 - 6111

Credit .50

This course is a graduation requirement by the New York State Board of Regents. The course includes one semester in the team sports skills. Participation, written tests, and written reports are requirements for passing this course. The second semester includes dance, where the fundamentals of ballet, jazz, and tap dance are explored. Participation, performance test, written tests, and written critique of a professional dance concert are requirements for passing this part of the course.

Physical Education Grade 10 - 6211

Credit .50

This course is required by the New York State Board of Regents. This is a full year course where more skills are introduced and developed in a variety of team sports. Participation, written tests, written reports are requirements for passing this part of the course. As an alternative, upon request, students are admitted into Intermediate Dance with the approval of the Fine Arts Department.

Pre-Requisite: Passing Physical Education 9

Advanced Beginner Dance Grade 10, 11, 12 - 6213

Credit .50

This is an elective course taken in place of the required Physical Education class. The course emphasizes technique in ballet, jazz and tap dancing. An introduction to modern dance and a basic study in improvisation, choreography and Dance History are also included.

Pre-Requisites: Dance Teacher Recommendation based on technical ability

Requirements: Choreography evaluation project requiring attendance at rehearsals outside of class
Attendance at a professional dance concert and written report

Intermediate Dance Grade 10, 11, 12 - 6214

Credit .50

This is an elective course taken in place of the required Physical Education class. The course emphasizes technique in ballet, jazz, tap dancing, and modern dance. A basic study in improvisation, choreography and Dance History are also included.

Pre-Requisite: Dance Teacher Recommendation based on technical ability

Requirements: Participation in the annual Dance Workshop Performance
Attendance at a professional dance concert
Written Report

Physical Education Grade 11 - 6311

Credit .50

This course is required by the New York State Board of Regents. Team sport skills are developed to the advanced level, strategies are introduced, and introduction of individual sports are begun. Participation, written tests, and written reports are requirements for passing this part of the course. As an alternative, upon request, students are admitted into Intermediate or Advanced Dance with approval of the Fine Arts Department.

Pre-Requisites: Passing Physical Education 10 -or-
Passing Intermediate Dance

Advanced Dance Grade 10, 11, 12 - 6312

Credit .50

This is an elective course taken in place of the required Physical Education class. This course continues technique classes on a more advanced level in ballet, modern, jazz, and tap. Further work in choreography for different media and improvisation is included.

Pre-Requisites: Dance Teacher Recommendation based on technical ability

Requirements: Participation in annual Mercy Dance Co. Concert and/or Festival of the Arts
Attendance at a professional dance concert
Written Report

Physical Education Grade 12 - 6411

Credit .50

This course is required by the New York Board of Regents. Skills are taught on the advanced level. Individual sports such as golf, tennis and badminton are emphasized. Participation, written tests, and written reports are requirements for passing this part of the course.

Pre-Requisites: Passing Physical Education 11 -or-
Passing Intermediate and/or Advanced Dance

SCIENCE

Earth Science Regents Grade 9 - 7141

Credit 1.00

This course contains three basic areas: investigating the earth (Geology), earth in space (Astronomy) and weather and climate of the earth. The course is investigative in nature and is student activity oriented. The laboratory experiences are truly the core of the course. The theme of the Earth Science course is the basic concept that the earth is dynamic and constantly changing. **The Regents is the final exam.** To be able to take the Regents, students must show evidence of satisfactory completion of the laboratory requirements.

Living Environment (Biology) Regents Grade 10 - 7241

Credit 1.00

This course is designed to provide students with background in the biological sciences so they can better understand human physiology. It also emphasizes the need for an increased awareness of the results of our interaction with the environment. The study helps to lead to an examination of career opportunities resulting from accelerating technological advances. It follows the New York State Living Environment Curriculum.

The Regents is the final exam. To take the Regents, students must show evidence of satisfactory completion of the laboratory requirements.

Pre-Requisites: Passing the Earth Science Regents Course if student was enrolled
Passing the Earth Science Regents Examination

Health Grade 10 - 7214

Credit .50

This course is required by the New York Board of Regents and emphasizes the personal, emotional and social aspects of Health. Topics include the following: Fitness and Nutrition, Substance Abuse, Diseases, Human Sexuality and Health in Society.

Chemistry Regents Grades 11, 12 - 7341

Credit 1.00

This course is a view of Chemistry based on the New York State Regents Chemistry Syllabus. It is conceptually and mathematically oriented. The laboratory work highlights material presented in the lecture. Since the Regents syllabus is followed, students are required to take the New York State Regents Examination in Chemistry in June. To take the Regents, students must show evidence of satisfactory completion of the NYS laboratory requirements. **The Regents is the final exam.**

Pre-Requisites: 85% Test Average in the Regents Biology Course
Passing Regents Biology
Passing the Integrated Algebra Regents Examination
Teacher Recommendation

Chemistry Honors Grades 11, 12 - 7351

Credit 1.00

This is a challenging course designed for students who do well in math and science. The New York State Regents curriculum is used as the basis for instruction with additional topics added as time allows. All concepts are explored in depth. **The Regents is the final exam.** To take the Regents, students must show evidence of satisfactory completion of NYS laboratory requirements.

Pre-Requisites: 90% Test Average in Regents Biology
Passing Regents Biology
Passing the Integrated Algebra Regents Examination
Teacher Recommendation

Physics Regents Grade 11, 12 - 7441

Credit 1.00

The New York State Regents Physics syllabus is followed. Emphasis is on fundamental concepts and critical thinking. All students must show satisfactory completion of NYS laboratory requirements. **Juniors must take the New York State Regents Examination in June as the final exam.** Seniors will take a school final.

Pre-Requisites: Passing Regents Biology
Passing Regents Chemistry
85% Average in Biology and Chemistry Courses
Passing Integrated Algebra, Integrated Geometry and Integrated Trigonometry (Juniors must be accelerated in Math to meet the requirement)
Teacher Recommendation

Physics Honors Grade 11, 12 - 7451

Credit 1.00

This is designed to be challenging and is only for students who have done well in math and previous science courses. It follows the NYS syllabus and goes beyond the basic requirements. **Juniors must take the New York State Regents Examination in June as the final exam.** Seniors will take a school final exam. All students must show evidence of satisfactory completion of NYS laboratory requirements.

Pre-Requisites: Passing the Regents Chemistry Examination
Honors Chemistry, Test average of 88,
OR
Regents Chemistry, Test average of 92,
AND
Passing Integrated Algebra, Integrated Geometry and Integrated Trigonometry (Students should have a minimum grade of 90 in these Math courses)
Recommendation from Chemistry Teacher

Anatomy and Physiology Grade 11, 12 - 7431

Credit 1.00

This course is intended for students who are planning to pursue a career in the health related fields and/or for those interested in acquiring a background in the structure and function of the human body. Topics covered include: Anatomical terms and directions, structures and functions of all of the major organ systems of the body, and cell physiology.

Pre-Requisite: Passing the Biology Regents Examination
OR
Passing the Chemistry Regents Examination
Teacher Recommendation

Advanced Placement Biology Grade 12 - 7471

Credit 1.00

Advanced Placement Biology in the high school seeks to meet the objectives of a General Biology course at the college level. The curriculum, which follows the guidelines set down by the College Board, emphasizes topics covered in a college introductory course, such as Molecular and Cellular Biology, Organismal Biology and Population Biology. While seminar and conference time is available, students in AP courses are expected to be independent learners studying the content material in greater detail than in previous biology courses. Students who achieve a qualifying grade on the Advanced Placement Test may earn college credit.

A.P. Test Fee: \$ 84.00 (Subject to change)

Pre-Requisites: 90% or better Test Average in Regents Biology and Chemistry courses
90% or better on Regents Biology Examination
85% or better on Regents Chemistry Examination
Passing the Math Regents Examinations in Algebra, Geometry and Trigonometry
Recommendation from Biology and Chemistry teachers
Final recommendation from Department Chair

Human Biology for Women/Forensics Grade 12 - 7434

Credit 1.00

Human Biology for Women studies the structure (Anatomy), the functioning (Physiology) and the health of humans, with a special emphasis on women, as well as the scientific advances in these areas. Some topics include: Fetal Testing and Monitoring, Newborn Testing, Toddler and Childhood Safety.

Forensic Science has become increasingly popular. This new interest has shown that forensic science can be an effective mechanism for teaching integrated science. Science itself is an important tool in answering difficult questions and in emphasizing the need for students to become proficient at critical thinking and problem solving. This course introduces students to the basic concepts of forensics including crime scene investigation, fingerprint analysis, collecting evidence, hair and fiber analysis, forensic anthropology, blood spatters and DNA evidence. The ultimate goal is for students to make sense of complex problems requiring logical reasoning involving numerical data, evidence and uncertainty.

Pre-Requisite: Passing the Biology Regents Examination
OR
Passing the Chemistry Regents Examination

THEOLOGY

Basic Catholicism and Christology Grade 9 - 9111

Credit 1.00

This course is the study of Jesus, as revealed through the Scriptures and Catholic tradition. The course enables the student to integrate her own awakening self-knowledge and ethical behavior with the life of Jesus Christ. Both the Old and the New Testaments are covered as they reveal the life and teachings of Christ.

Service is required.

Church History/Personal Morality Grade 10 - 9211

Credit 1.00

Church History covers the major developments from Pentecost to the present day emphasizing the people, teaching, and events that have shaped the Catholic Church.

Personal Morality focuses on values, conscience formation, and moral decision making in the light of the Gospel and Church teachings.

Service is required.

Pre-Requisite: Passing Theology 9

World Religions/Justice and Peace Grade 11 - 9311

Credit 1.00

Focusing on what we have in common, this course promotes understanding and tolerance. The Catholic Social Teaching Themes and Gospel values are applied to present-day political, social, and economic conditions.

Service is required.

Pre-Requisite: Passing Theology 10

Christian Marriage and Sacramental Living Grade 12 - 9411

Credit 1.00

Christian marriage is presented from a realistic point of view and a path to holiness. Religious and single life vocations are also discussed.

Sacramental Living prepares the graduating senior to face the challenges of life with her friendship with God on solid ground.

Service is required.

Pre-Requisite: Passing Theology 11

COLLEGE PROGRAM

College courses are offered in conjunction with **St. John's University**. The program is designed to help bridge the gap between high school and college. Well-qualified students benefit from courses in the program in terms of the opportunity for an early assessment of both their abilities and interests in particular fields of work at the university level. Minimum requirements for all students enrolled are 1000 SATs and 80% Average in the 5 major subjects.

ENGLISH DEPARTMENT

College Writing 1 and 2 Grade 12 - 3474

Credit 1.00

College Writing consists of two semester-long St. John's University English Department courses: *English Composition* and *The Study of American Literature*. The classes are designed to exercise and polish reading, research, and writing skills. Students critically analyze and respond to a number of significant literary works from a variety of genres - short stories, plays, novels, and poetry. The course studies literary terms, writing strategies and organization, critical analysis skills, and MLA style. Heavy writing is expected; both personal response and research papers are required. The culminating project of the year is an eight-page, college-level research paper. In addition, group and individual presentations are conducted.

NOTE: It is the responsibility of the student to inquire as to whether or not her colleges of interest will accept the six St. John's credits *before* deciding to enroll in the course. All students in College Writing are required to register for St. John's credit.

College Fee: \$500.00 for 6 college credits (payable in September)

Pre-Requisites: Department Approval
85% Average in English 11 Honors
90% Average in English 11 Regents
Portfolio Review

LANGUAGE DEPARTMENT

College Spanish 3/4 Grade 12 – 4476

Credit 1.00

This course follows guidelines set down by St. John's University.

The Fall Semester offers a concise review of the basic skills, with more intensive reading, conversation, and grammar. Introduction to Hispanic Literature.

The Spring Semester offers drill and practice in conversational Spanish. Topics are selected to meet the requirements of daily life. Study of Hispanic Literature.

College Fee: \$500.00 for 6 college credits payable in September.

Pre-Requisite: Department Approval
80% on the Midterm Exam
90% Average in Spanish III in the first semester

COLLEGE PROGRAM

LANGUAGE DEPARTMENT

College Italian 3/4 Grade 12 - 4477

Credit 1.00

This course follows guidelines set down by St. John's University.

The Fall Semester offers a concise review of the basic skills, with more intensive reading, conversation, and grammar. Introduction to Italian Literature.

The Spring Semester offers drill and practice in conversational Italian. Topics are selected to meet the requirements of daily life. Study of Italian Literature.

College Fee: \$500.00 for 6 college credits payable in September.

Pre-Requisite: Department Approval
80% on the Midterm Exam
90% Average in Italian III in the first semester

HISTORY AND SOCIAL SCIENCES DEPARTMENT

Emergence of a Global Society/Western Civilization I Grade 12 - 8476

Credit 1.00

These courses are included in St. John's University Extension Program at OLMA.

The Emergence of a Global Society segment will survey the historical foundations of contemporary societies: global dissemination of scientific, technological, and industrial revolutions; the spread of world religions, democracy, and internationalism; accommodation and resistance to Western hegemony; globalization as a historical force.

The Western Civilization I segment will survey the various events and forces that have contributed to the heritage of contemporary Western Civilization from the ancient world to 1648.

Museum trips are a mandatory component of the course.

College Fee: \$500.00 for 6 college credits payable in September.

Pre-Requisites: Teacher Recommendation
Department Approval
Passing the U.S. History Regents Exam
Passing the Variance Exams in Government and Economics or
Passing Government Variance Exam and enrollment in the online
Economics course

All College Fees and Book Fees are subject to change.

<p>In certain extenuating circumstances, decisions that are outside of specific requirements and policies may be made at the discretion of the Administration.</p>
