

# St. Dominic High School



## Course Description Booklet

2010-2011

**ST. DOMINIC HIGH SCHOOL  
MISSION STATEMENT**

*Let it be known that the mission of St. Dominic High School is to educate young people in a community dedicated to Gospel values and Catholic teachings. Ministering to students of diverse abilities, St. Dominic High School strives to achieve wholeness through personal holiness, academic excellence, and social responsibility. The pride of this community is its celebration of a student's growth and individuality.*

**ADMINISTRATION**

Mrs. Denise Smith ..... Principal  
Mr. Timothy Homan ..... Assistant Principal/Academics  
Mrs. Michele O'Brien ..... Assistant Principal/Student Affairs  
Mr. Anthony Servedio ..... Assistant Principal/Student Affairs  
Mr. James Fordyce ..... Assistant Principal/Scheduling & Technology  
Mrs. Erin Royce ..... Director of Guidance  
Ms. Tiffany Cicchetti ..... Guidance Counselor

## CURRICULUM AND COURSE SELECTION

The requirements for a St. Dominic High School Diploma, a New York State Regents Diploma or Advanced Regents Diploma must be a priority in planning a course of study supportive of an individual's goals not only for the upcoming school year but after graduation. As a college preparatory school, we recommend selecting courses with the intention of moving on to higher education keeping in mind expectations of the college of choice.

Courses should be chosen after careful consideration by both parents and students taking into account the placement advice of guidance counselors and current teachers and in accordance with the prerequisites noted herein.

It should be understood that placement in courses may be changed between registration in the Spring and final placement the following Fall based on a number of factors including student's final grade in a course, changes in school/course enrollment, scheduling conflicts and availability of qualified instructors.

Courses may not be taken on a trial basis. Students should not request courses for which they do not qualify or which they do not intend to complete. Again careful consultation with faculty and counselors is strongly urged prior to registration. Student/Parent initiated transfers are not permitted after the date noted on the school calendar.

The school reserves the right to cancel or not offer courses listed herein based on insufficient enrollment, lack of a qualified instructor or financial considerations. Should a course not be offered students will be offered the opportunity to adjust their schedules.

*Before Submitting Choices, Students Should:*

- Read the descriptions carefully and note any prerequisites for courses.
- Make an honest assessment of abilities in consultation with parents, teachers and counselors.
- Check graduation and diploma requirements.
- Have course selection sheet signed by a parent or guardian.
- Return the course selection sheet to the guidance office on or before the due date.

REQUIREMENTS FOR GRADUATION			
Required Units of Credit		Minimum Regents Exam Requirements	
Courses	St. Dominic Requirements	Regents Diploma <sup>a</sup>	Advanced Regents Diploma <sup>b</sup>
Theology	4 credits	N/A	N/A
English	4 credits	65% - English	65% - English
Social Studies	4 credits	65% - Global History 65% - U.S. History	65% - Global History 65% - U.S. History
Mathematics	4 credits	65% - Math A 65% One Regents (Class of 2011 and later)	65% - Math A & Math B 65% - All 3 Math (Class of 2011 and later)
Science	4 credits	65% - Any Science	65% - 2 Sciences
Health	½ credit	N/A	N/A
Art/Music	1 credit	N/A	N/A
Foreign Language	3 credits	Not Required	65% - Any Language
Physical Education	2 credits	N/A	N/A
Electives	2 credits		
Total	28 ½ credits		

**Notes:**

<sup>a</sup>Regents Diploma with Honors – Awarded to students who achieve an average of 90% or higher on a minimum of five (5) required Regents exams.

<sup>b</sup>Advanced Regents Diploma with Honors – Awarded to students who achieve an average of 90% on a minimum of eight (8) Regents exams.

**Additional Notes Regarding Diploma Requirements:**

All students are required to take these subjects for *each* of their four years:

Theology	English
Social Studies	Physical Education
Science	Mathematics

All students who qualify are *strongly* encouraged and recommended to take four years of a foreign language.

In addition to the above academic requirements, students are required to perform a minimum of twelve (12) hours of community service each year as a condition of graduation.

## NORMAL COURSE SEQUENCES

### Freshmen

<b><i>Normal Sequence:</i></b>	<b><i>Alternatives (for those who qualify):</i></b>
Theology 9	
English 9	
Global History 9	
Earth Science or Living Environment	Honors Living Environment
Algebra or Pre-Algebra	Geometry
Spanish/Italian I	Spanish II/Italian II
Music	
Studio Art	
Study Skills	
Physical Education	
<b><i>Electives:</i></b>	
Concert Band (Audition required)	
Concert Choir (Audition required)	

### Sophomores

<b><i>Normal Sequence:</i></b>	<b><i>Alternatives (for those who qualify):</i></b>
Theology 10	
English 10	
Global History 10	
Living Environment or Earth Science	
Geometry or Algebra	Chemistry
Spanish II/Italian II	Algebra II & Trigonometry
Physical Education	French III/Spanish III/Italian III
Health	
SAT Preparation	
<b><i>Electives:</i></b>	
Calligraphy*	Geography & Current Issues
Introduction to Fashion*	The 1960's
Drawing and Painting*	Concert Band**
Computer Applications	Concert Choir**
<i>*See course prerequisites</i>	
<i>**Audition required for new candidates</i>	

## Juniors

### *Normal Sequence:*

Theology 11  
English 11  
United States History  
Chemistry  
Algebra & Trigonometry  
or Intermediate Algebra II/Trigonometry  
or Geometry  
French III/Spanish III/Italian III  
Physical Education

### *Alternatives (for those who qualify):*

A. P. United States History  
Physics  
Pre-Calculus

### *Electives:*

Introduction to Ceramics  
Drawing & Painting\*  
Advanced Drawing & Painting\*  
Calligraphy  
Introduction to Fashion  
Computer Applications  
Marketing and Communications  
Careers and Finance  
Geography & Current Issues  
The 1960's  
Journalism  
Prepress Publication Design I  
French/Italian IV\*  
College Spanish IV\*  
Concert Band\*\*  
Concert Choir\*\*

*\*See course prerequisites*

*\*\*Audition required for new candidates*

## Seniors

### *Normal Sequence:*

Theology 12  
World Literature  
Economics & Government  
Physics  
or Anatomy & Physiology/Forensics  
or Space and Atmospheric Sciences  
Pre-Calculus  
or Advanced Algebra  
or Intermediate Algebra II/Trigonometry  
or Accounting  
Physical Education  
Guidance

### *Alternatives (for those who qualify):*

A. P./College English  
A. P. Economics & Government  
A. P. Biology  
  
A. P./College Calculus

### *Electives:*

Introduction to Ceramics or Advanced Ceramics\*  
Drawing & Painting or Advanced Drawing & Painting\*  
Calligraphy  
Introduction to Fashion  
Accounting  
Business and Criminal Law  
Careers and Finance  
Computer Applications  
Marketing and Communications  
Geography & Current Issues  
The 1960's  
Psychology  
Business and Criminal Law  
Journalism or Journalism II\*  
Information Skills.  
Prepress Publication Design I or Prepress Publication Design II\*  
French IV\*/Italian IV\*/College Spanish IV\*  
Concert Band\*\*  
Concert Choir\*\*

*\*See course prerequisites*

*\*\*Audition required*

## **ADVANCED PLACEMENT AND COLLEGE COURSES**

Please note the following for all Advanced Placement and college courses:

Careful consideration must be given when deciding to enroll in A. P. or college courses. Each of these courses has a demanding curriculum and workload. Students should understand that success in each of these classes will require that they spend a significant amount of time outside of the class time on reading and other assignments.

All students in Advanced Placement courses are required to take the A. P. examination in those subjects. There is a fee, determined by the College Board, for all Advanced Placement examinations. College courses also carry a fee for the college credits that accompany those courses.

Students in Advanced Placement courses will not receive credit for those classes unless they adhere to the school's established attendance policies.

## ART

### **1211 – Studio in Art\***

**Grade 9**

**½ Credit**

Studio in Art is a foundation course which introduces the basic elements of art: space, shape, color, line and texture. These elements are explored with a variety of media, incorporating two and three dimensional design and are studied in relations to the various movements throughout art history. Personal expression and creativity are encouraged.

### **1231 – Drawing and Painting\***

**Grades 10-12**

**½ Credit**

The art experience is narrowed for advanced students to encourage an in-depth exploration of the discipline of drawing and painting. A wide variety of medias will be explored including watercolor, acrylic, gouache, charcoal and craypods. The goal is aesthetic awareness, aesthetic judgment and personal discovery as it relates to these disciplines. *Prerequisites: Studio in Art and departmental approval.*

### **1232 – Advanced Drawing & Painting\***

**Grades 11 & 12**

**½ Credit**

This course is available only to those who have successfully completed Drawing and Painting. The students who elect to take this course should be proficient in drawing and painting skills and be prepared to undertake more complex projects. *Prerequisites: A final average of 85 or above in Drawing and Painting and departmental approval.*

### **1251 – Introduction to Ceramics\***

**Grades 11-12**

**½ Credit**

This course is designed to encompass all aspects of working with clay including the basic hand-building techniques, mastery of the potter's wheel and ceramics-as-sculpture. The foundations and goals of this course are excellence of craftsmanship, understanding of sound design and aesthetics and technical considerations. Class size will be limited. *Prerequisites: Studio in Art and departmental approval.*

### **1261 – Advanced Ceramics/Sculpture\***

**Grade 12**

**½ Credit**

Craftsmanship and expertise in design and execution are the goals of Advanced Ceramics/ Sculpture. Students make use of their skills of hand-building, glazing and potter's wheel learned in Introduction to Ceramics to undertake more intricate projects, developing their own personal styles in functional pottery and ceramic sculpture. Class size will be limited. *Prerequisites: A final average of 85 or above in Introduction to Ceramics and departmental approval.*

### **1241 – Calligraphy\***

**Grades 10-12**

**½ Credit**

This course exposes students to writing as an art form. Today calligraphy is used in announcements, invitations, logo designs, maps, certificates, inscriptions, religious art and testimonials. Students will learn the basic alphabets, Italic, Gothic and Celtic. Spacing and the use of various pens will be stressed. After mastering the alphabets, students will be able to create their own projects. *Prerequisites: Completion of Studio in Art with a final average of 80 or above.*

### **1246 – Introduction to Fashion\***

**Grades 10-12**

**½ Credit**

The basics of fashion design will be introduced to students. They will study examples of fashion from many different time periods, examining the elements of design. Putting to use their knowledge of the different eras, student will design their own creations. In this process, the use of fabrics and accessories will be stressed. *Prerequisites: Completion of Studio in Art with a final average of 80 or above.*

**\*PLEASE NOTE: A \$ 30.00 materials fee is required for all ceramics courses and a \$15.00 materials fee for all other art courses.**

## BUSINESS

### ***2140 – Computer Applications***

***Grades 10-12***

***½ Credit***

Computers are a part of everyday life, but many students aren't familiar with all of the ways in which they can be used to make the tasks they have for school and work easier. This course is designed to explore many common computer programs. Word processing, databases, PowerPoint presentations, web design, Photoshop, and spreadsheets are some of the computer tools utilized and learned in the class.

### ***2142 – Marketing and Communications***

***Grades 11 & 12***

***½ Credit***

It is an activity based course that will introduce marketing principles based on various themes including the world of sports entertainment. Public speaking, media, and broadcasting will also be analyzed.

### ***2144 – Careers and Finance***

***Grades 11 & 12***

***½ Credit***

This course will meet three days out of the six day cycle. It will encompass a general understanding of actively participating in the professional world. Basic life skills and activities that focus in on becoming an active professional in the future will embody the curriculum. Teamwork, legal matters, resume development, career research, entrepreneurship, interview skills, decision making, and budgeting will be some of the many topics covered.

### ***5152 – Accounting I***

***Grade 12***

***1 Credit***

This elective course is designed to develop occupational competencies in bookkeeping and accounting, while offering students background in college level accounting. Skills taught enable the student to complete the full accounting cycle for a sole proprietorship and partnership and to become familiar with corporate accounting concepts and computer software applications. *NOTE: Seniors may take Accounting to fulfill their mathematics requirement.*

## ENGLISH

### ***3112 – English 9***

***Grade 9***

***1 Credit***

English 9 concentrates on study skills to prepare students for the demands of secondary education including reading and interpreting documents, preparing short essays focusing on paragraph construction (i.e. unity, sentence development, agreement, case etc...). All forms of literature are studied including poetry, the short story, novels and drama including at least one selection from Shakespeare. Students will be taught the application of various literary terms such as irony, symbolism, foreshadowing and conflict in preparation for the English Regents offered in Junior year. Emphasis is placed on vocabulary development and word structure (prefixes, suffixes, root words) to prepare students for success when they eventually take the SAT.

### ***3113 – Honors English 9***

***Grade 9***

***1 Credit***

Honors English 9 includes the study of composition skills, the reading of literature, an expansion of the student's vocabulary, a further familiarization with the fundamentals of good grammar and correct usage, a refinement of reading comprehension skills and critical thinking skills, and an introduction to public speaking. The goals of the course's composition component include mastery of the paragraph and an introduction to the structure and style of an expository essay. The analytical tools for understanding literature are discussed in depth. Requirements: a research paper and Departmental Final Examination. *Prerequisite: Departmental approval based upon entrance exam score and elementary transcript.*

### ***3122 – English 10***

***Grade 10***

***1 Credit***

This course builds upon the skills learned in English 9. Students begin more in depth study of literature focusing on American authors through either a chronological or thematic approach. Students will be given opportunities for public speaking and research skills are introduced focusing on the integration of a number of sources into a unified work. Vocabulary and grammar studies are emphasized with PSAT and SAT applications. Longer written assignments are expected and some form of research paper is required. Literature will also include at least one selection from Shakespeare for extended study.

**3123 – Honors English 10****Grade 10****1 Credit**

This course emphasizes the various genres of American literature; thus, the course focuses on short stories, novels, essays, plays, and poetry. Throughout the school year the teaching of vocabulary, spelling, grammar and literary terms is incorporated into the student's written and oral expression. A research paper is required. A unit of study skills is part of the course's content. *Prerequisites: A final average of 90 or higher in Honors English 9; 92 or higher in Regents English 9*

**3132 – English 11****Grade 11****1 Credit**

With an emphasis on written responses to standardized tests as its base, English 11 offers a study of British literature. Course components include enhancing students' writing skills through various assignments both creative and expository as well as a research paper following MLA guidelines. Library/research skills and SAT preparation are also included. Students must make an oral presentation and submit a research paper. At least one selection from Shakespeare is included for in depth study. Students are also required take the English Regents in June.

**3133 – Honors English 11****Grade 11****1 Credit**

Through a study of British writers, students will analyze writing options to embellish their skills for academic writing and standardized test responses. Language and vocabulary development, oral presentations, group projects, library/research skills and SAT preparation are integral elements of the course. Students are responsible for both creative and expository writing as well as a research paper according to MLA guidelines. At least one selection from Shakespeare is included for in depth study. Students are required to take the English Regents in January. *Prerequisites: A final average of 90 or higher in Honors English 10; 92 or higher in Regents English 10*

**3154– World Literature****Grade 12****1 Credit**

This year-long course is a brief survey of literature from around the world, opening the student to the richness available in other cultures as well as our own. Novels and poems create opportunities for student responses in written form. There is a term paper due near the end of the semester.

**3144 – Advanced Placement English  
Composition and Literature****Grade 12****1 Credit**

Advanced Placement English is a college-level English course for the highly motivated student. The course adheres to outlines set forth in the College Entrance Examination Board's course description booklet. Analysis and synthesis in both reading and writing, about a variety of subjects are required. Research techniques are studied and a research paper is required. Reading selections include American, British and world literature. The students are required to take the Advanced Placement Examination in Literature and Composition in May. *Prerequisites: A final average of 92 or higher in Honors English 11 and departmental approval.*

**3345 – Journalism****Grades 11& 12****½ Credit**

With an emphasis on writing articles for publication in the school newspaper, *The Bayhawk Bulletin*, this course gives students practical experience in newspaper reporting. Students will be exposed to news, sports, review and editorial writing techniques as they develop and enhance their skills in news gathering and editing. Requirements: Students must participate in the publication of *The Bayhawk Bulletin*. Enrollment limited.

**3346 – Journalism II****Grade 12****½ Credit**

In this course, students will continue to develop enhance their reporting and writing skills while assuming editorial and leadership roles in the publication of the school's newspaper, *The Bayhawk Bulletin*. *Prerequisite: Journalism (3345)*

**3348 – Prepress Publication Design I****Grades 11 & 12****½ Credit**

This course provides a conceptual grounding for students starting out in design, giving them a primer on the basic elements of design: typography, images, color, and layout. We will explore fundamental techniques using an online application and develop print design skills. Students will gain a working knowledge of importing and manipulating objects, copywriting, controlling text flow and style, and graphic effects such as transparency, drop shadow, and feathering. Students will learn how to evaluate designs using such time-honored principles as consistency and alignment, and develop their ability to critique design—identifying what’s right and wrong, and how to fix it. Focusing on publications management, the class will work on a print deadline schedule simulating a real-world workplace where students, working as part of a design team, will create a professional 220+ page yearbook as well as other prepress-quality projects.

**3349 – Prepress Publication Design II****Grade 12****½ Credit**

Using the skills learned in *Prepress Publication Design I*, students will be introduced to imaging, publishing and design software and instructed on how to make use of it in assembling a permanent record of the academic year. They will be involved as leaders in every phase of production of *Stella Maris*, the yearbook of St. Dominic High School. As such, members of this class will contribute to the design and production of a hardcover publication in excess of 250 pages in strict adherence to a series of deadlines. Requirements: Additional writing assignments, including at least two brief research papers, and appearance at some extracurricular school functions as they are assigned for inclusion in the yearbook. *Prerequisites: Prepress Publication Design I (3348). Open only to students with secured editorial positions on the yearbook for the coming year.*

**3351 – Information Skills****Grade 12****½ Credit**

Students spend a large portion of their scholastic lives writing and researching papers. Picking a topic, narrowing the subject, researching relevant material, synthesizing information and citing sources can be challenging. Using a variety of sources, we will review the methodology behind research techniques; evaluate information from a variety of sources; develop written content; discuss structure and format as well as various citation styles.

## WORLD LANGUAGES

**4512 – Spanish I****Grade 9****1 Credit****4611 – Italian I**

Basic grammatical structures are emphasized. Vocabulary and verbs are studied from the beginning phases of elementary composition and reading. Attention is also given to the cultural aspects of the language. A major paper or project is expected from each student each semester. The introduction to reading will be incorporated throughout the year. All students entering the 9<sup>th</sup> grade, with little or no foreign language experience, should take one of these courses.

**4522 – Spanish II****Grades 9 & 10****1 Credit****4612 – Italian II**

Emphasis is placed on acquiring a greater facility in speaking, reading, writing and understanding a foreign language. A major paper or project is due each semester. Simple literary works will be introduced to the students. Structured compositions will receive greater emphasis and cultural material will be extended. *Prerequisites: Successful completion of Level I. Incoming Freshmen must receive a grade of 70 or higher on the Language Placement Exam given in March.*

**4524 – Honors Spanish II**  
**4613 – Honors Italian II**

**Grades 9 & 10**

**1 Credit**

Emphasis is placed on acquiring a greater facility in speaking, reading, writing and understanding a foreign language. A major paper or project is due each semester. Simple literary works will be introduced to the students. Structured compositions will receive greater emphasis and cultural material will be extended. All students entering the 9<sup>th</sup> grade, with one unit of high school credit, should take one of these courses. *Prerequisites: A final average of 90 or higher in Level I. Incoming Freshmen must receive a grade of 85 or higher on the Language Placement Exam given in March.*

**4133 – French III**  
**4533 – Spanish III**  
**4614 – Italian III**

**Grades 10 & 11**

**1 Credit**

This course will prepare the student with greater depth in all language skills: listening, speaking, reading and writing. Structured compositions will receive greater emphasis and cultural material will be studied. Term papers are required each semester on a literary topic. Students are required to take the June Regents Examination in their chosen language. *Prerequisites: Successful completion of Level II.*

**4134 – Honors French III**  
**4534 – Honors Spanish III**  
**4615 – Honors Italian III**

**Grades 10 & 11**

**1 Credit**

This course will prepare the student with greater depth in all language skills: listening, speaking, reading and writing. Structured compositions will receive greater emphasis and cultural material will be studied. Term papers are required each semester on a literary topic. Students are required to take the June Regents Examination in their chosen language. *Prerequisites: A final average of 90 or higher in Level II Honors; 92 or higher in Level II Regents.*

**4143 – French IV – Introduction to French Culture  
& Literature**

**Grades 11 & 12**

**1 Credit**

This course is a survey of the culture and literature of France. Representative works from selected literary periods will be covered. Through the study of the French culture and literature, the students will simultaneously develop a better command of the French language. *Prerequisites: Successful completion of Level III with a final average of 85 or higher.*

**4616 – Italian IV – Introduction to Italian Culture  
& Literature**

**Grades 11 & 12**

**1 Credit**

This course is a survey of the culture and literature of Italy. Representative works from selected literary periods will be covered. Through the study of the Italian culture and literature, the students will simultaneously develop a better command of the Italian language. *Prerequisites: Successful completion of Level III with a final average of 85 or higher.*

**4543 – College Spanish IV**

**Grades 11 & 12**

**1 Credit**

This course is part of the Adelphi University High School program. It carries dual credit: (1) one high school credit which satisfies the school credit for a foreign language sequence, and (2) six college credits applicable to advanced standing as a college freshman. This course introduces the students to more serious readings in the foreign language. The first semester, students will read a series of short stories with graded difficulty. Periodic papers will be expected. During the second semester, students will be introduced to different literary genres: short story, novel, poetry and essay. Periodic short papers will be expected. Students will work on a major project. This project will be on a theme of the student's choice and must encompass and demonstrate the student's knowledge of the language. *Prerequisites: Successful completion of Level III with a final average of 90 or higher.*

## HEALTH

**6330 – Health**

**Grade 10**

**½ Credit**

The successful completion of health is a graduation requirement in New York State. This course provides an in-depth study of the major health issues facing young people today – including nutrition, eating disorders, heart disease, cancer, sexually transmitted diseases, and drug and alcohol abuse. Lecture topics are reinforced through audio-visual presentations. Class participation is strongly encouraged.

## MATHEMATICS

**5202 – Algebra**

**Grade 9**

**1 Credit**

This course is a part of the required New York State syllabus encompassing topics in algebra, geometry, probability, data analysis, and problem solving. Areas covered in this course include: tools of algebra, functions and their graphs, algebraic concepts, simple equations and inequalities, graphing and writing linear equations, systems of equations and inequalities, quadratic equations and functions, exponents, right triangles and radical expressions, polynomials, and rational equations and functions. Requirement: TI-83+ or TI-84+ Graphic Calculator.

**5212 – Geometry**

**Grades 9 & 10**

**1 Credit**

This course is designed to cover the second part of the New York State Mathematics syllabus encompassing topics in geometry. Areas covered in this course include reasoning, proving triangles congruent, parallel lines, similarity, and circles. Students will take the Geometry Regents in June of this academic year. Requirements: TI-83+ or TI-84+ Graphic calculator. *Prerequisites: Successful completion of Algebra and the Algebra Regents examination.*

**5220 – Intermediate Algebra & Trigonometry**

**Grades 11 & 12**

**1 Credit**

This course is similar in scope to Algebra 2 and Trigonometry. Students will improve their skills in mathematical reasoning, numbers and numeration, tools of advanced algebra, trigonometric and quadratic functions and their graphs, algebraic concepts, quadratic and trigonometric equations and inequalities, and probability. Students in this course will have the opportunity to advance to Advanced Algebra in their Senior year. Requirements: TI-83+ or TI-84+ Graphic calculator.

**5222 – Algebra 2 & Trigonometry**

**Grades 10 & 11**

**1 Credit**

This course is designed to complete the New York State Regents sequence in mathematics. Areas covered in the course include mathematical reasoning, numbers and numeration, tools of advanced algebra, trigonometric and quadratic functions and their graphs, algebraic concepts, quadratic and trigonometric equations and inequalities, and probability. Requirements: TI-83+ or TI-84+ Graphic Calculator. *Prerequisites: Successful completion of Geometry (5212) and the Geometry Regents examination.*

**5134 – Advanced Algebra**

**Grade 12**

**1 Credit**

The curriculum for this course encompasses a blend of Geometric, Intermediate and Advanced Algebra topics. Students who have completed Algebra II & Trigonometry NR (5221) are encouraged to take this course to build upon and enhance the skills introduced in that course. Requirement: TI-83+ or TI-84+ Graphic Calculator.

**5142 – H. Pre-Calculus****Grades 11 & 12****1 Credit**

This course continues the study of Elementary Functions and their properties, introduces Curve Sketching, Conic Sections, Polar Coordinates, Limits, and the problems of Tangents to a Curve and Area under a Curve, in preparation for College-Level Calculus. Requirements: Scientific/Graphing Calculator (TI 82 or TI 83). *Prerequisites: Successful completion of Algebra II/Trigonometry (5222) and departmental approval.*

**5144 – College/A. P. Calculus****Grade 12****1 Credit**

This is a demanding college-level Calculus for those students who have successfully completed Pre-Calculus. Students may take this course for eight (8) college credits from St. John’s University *and/or* they may choose to take the Advanced Placement examination in Calculus in May. There is a fee of \$500 for students who choose to take this course for college credit *and/or* a fee for the Advanced Placement examination. *Prerequisites: Successful completion of Pre-Calculus (5142) and departmental approval*

**5152 – Accounting I****Grade 12****1 Credit**

This elective course is designed to develop occupational competencies in bookkeeping and accounting, while offering students background in college level accounting. Skills taught enable the student to complete the full accounting cycle for a sole proprietorship and partnership and to become familiar with corporate accounting concepts and computer software applications. *NOTE: Seniors may take Accounting to fulfill their mathematics requirement.*

**MUSIC****1510 – Music Appreciation****Grade 9****½ Credit**

An introductory course in music geared to all levels of music interest and ability. Students will be encouraged to recognize and explore the maximum scope of music: its essence, purpose and history. Students will learn the elements of music (melody, harmony, rhythm, tempo and dynamics), study the major musical historical periods. They will study the major composers, their compositions, the classical forms of music and the distinction between “classical” and “popular” music.

**1600 – Concert Choir****Grades 9-12****½ Credit**

This is a singing group, chosen by audition, that consists of approximately 50-60 students. There are four sections within the group, decided by voice range: Soprano, Alto, Tenor and Bass. The age range is from Freshman-Senior (14 years old – 18 years old). Requirements: Students must audition prior to the beginning of the school year. The audition consists of the following skills: matching pitches, singing scales and warm-up exercises, sight reading a piece chosen by the director and piece of music brought in by the student (optional). After passing an audition, a section part will be assigned according to vocal range. Students will be asked to make a serious commitment to the group, which includes memorizing music, attending all rehearsals and sectionals, responsibility for folders and robes, attending out of school activities, etc. A commitment paper is to be signed by both student and a parent or guardian, and returned to the director. *Prerequisite: Successful audition for new students.*

**1560 – Concert Band****Grades 9-12****½ Credit**

Concert Band is a performance group that features brass, wind and percussion instruments. The music is selected from some of the most challenging standard works from the symphonic band repertoire, as well as exciting contemporary music. Coupled with teaching the basic elements of musicianship, Concert Band serves to give students performing opportunities while developing individual music skills. *Prerequisite: Successful audition for new students.*

## PHYSICAL EDUCATION

**6110/6130 – Physical Education**

**Grades 9-12**

**½ Credit**

Students will be instructed in the gross motor skills essential to participation in team sports. Progressions will be used culminating in participation in organized games. Emphasis will be placed on knowledge of the rules and basic fundamentals as they apply to sports. Once during the year, the students are expected to take the National Physical Fitness examination.

The following sports will be covered during the season listed:

**Fall:**

Soccer  
Volleyball  
Football

**Winter:**

Basketball  
Floor Hockey  
European Handball

**Spring:**

Badminton  
Lacrosse  
Softball  
Fitness and Conditioning

## SCIENCE

**5512 – Earth Science**

**Grades 9 & 10**

**1 Credit**

This course is designed to allow the student to study the following topics: measuring the earth, astronomy, energy, weather, climate, weathering and erosion, deposition, rocks and minerals, earthquakes, geologic history and landscape development. During the course of the year, students will perform 1200 minutes of hands-on laboratory activities designed to reinforce the classroom study of the above topics. Requirements: Written lab reports and Earth Science Regents examination in June.

**5513 – Honors Earth Science**

**Grades 9 & 10**

**1 Credit**

This course is designed to allow the student an in-depth study of the following topics: measuring the earth, astronomy, energy, weather, climate, weathering and erosion, deposition, rocks and minerals, earthquakes, geologic history and landscape development. During the course of the year, students will perform 1200 minutes of hands-on laboratory activities designed to reinforce the classroom study of the above topics. Requirements: One research project per semester, written lab reports, and Earth Science Regents examination in June. *Prerequisites: Departmental approval.*

**5920 – Living Environment (Biology)**

**Grades 9 & 10**

**1 Credit**

This course is designed to present the Living Environment curriculum set forth by New York State. The major topics of biology are discussed, including ecology, evolution, genetics, reproduction, and the structure and function of plants and animals. During the course of the year, students will perform 1200 minutes of hands-on laboratory activities designed to reinforce the classroom study of the above topics. Requirements: Written lab reports and Living Environment Regents examination in June.

**5921 – Honors Living Environment**

**Grades 9 & 10**

**1 Credit**

This course is designed to present and supplement the Living Environment curriculum set forth by New York State. The major topics of biology are discussed, including ecology, evolution, genetics, reproduction, and the structure and function of plants and animals. During the course of the year, students will perform 1200 minutes of hands-on laboratory activities designed to reinforce the classroom study of the above topics. Students will participate in a trip to the Cold Spring Harbor DNA Laboratory. Requirements: Written lab reports and Living Environment Regents examination in June. *Prerequisites: A final average of 87 or higher in Honors Earth Science; 90 or higher in Regents Earth Science.*

**5632 – Regents Chemistry****Grades 10 & 11****1 Credit**

This course is a thorough and comprehensive study of the basic principles of chemistry. Topics included in this course are chemical bonding, chemical reactions, math principles of chemistry, oxidation, reduction, nuclear chemistry, organic chemistry and equilibrium. Formal lab sessions will reinforce classroom learning. Written lab reports documenting at least 30 hours of laboratory procedures are mandatory. All students are required to take the Chemistry Regents examination in June. *Prerequisites: Departmental Approval.*

**5633 – Honors Chemistry****Grades 10 & 11****1 Credit**

In addition to the above topics, students in Honors Chemistry will be required to master an extended Chemistry curriculum. Additional topics will prepare the student for the SAT II achievement examination in Chemistry. Additional laboratory experiments and a research project will further enhance their understanding of and appreciation for Chemistry. Students will be encouraged to actively participate in the Science Olympiads held each February. Requirements: Written labs, research project, and Chemistry Regents examination in June. *Prerequisites: A final average of 87 or above in Honors Living Environment; 90 or higher in Regents Living Environment.*

**5543 – Physics****Grades 11 & 12****1 Credit**

This course is a thorough and comprehensive study of the basic principles of physics. It is appropriate for college-bound students who have an interest in the workings of the physical world. Students are encouraged to question their world and are instructed in the methods and means that modern science uses to investigate it. Topics included in this course are mechanics, electricity and magnetism, waves and optics, and modern physics. Formal labs will reinforce classroom learning. Curricular activities and opportunities may include Physics Day at Great Adventure Amusement Park, Top of the Hill Engineering Competition, Egg Drop Competition, New York Tech Bridge Building Competition, Physics Olympics and the Science Olympiad. Requirements: Physics Regents examination in June (for underclassmen). *Prerequisites: A final average of 80 or above in Chemistry and 80 or higher in Regents Geometry (5212).*

**5542 – Advanced Placement Biology****Grade 12****1 Credit**

This is a demanding college-level course devoted to the study of living organisms. Topics to be investigated include: the concept, diversity, and unity of life; the chemistry of living things; maintenance in living organisms from protozoa to man; reproduction and development; genetics from Mendel to the present; evidences and theories of evolution; and plants and animals in their environment. Formal written lab reports reflecting at least 45 hours of laboratory work are required. Participation in academic competitions is strongly encouraged. All students are required to take the Biology Advanced Placement Examination in May. *Prerequisites: A final average of 92 or higher in Honors Living Environment and a final average of 90 or higher in Honors Chemistry and departmental approval. Students who have taken Regents Chemistry or Regents Living Environment must obtain departmental approval.*

**5581 – Anatomy & Physiology/Forensics****Grade 12****1 Credit**

Students will build on information learned in biology and focus specifically on human anatomy and physiology. Emphasis will also be placed on healthcare careers. Through lecture, labs, and activities, students will review human anatomy and increase their knowledge of how the human body works. In the Forensics unit of this course, students will enter the world of forensic science through a variety of labs that include: crime scene analysis, fingerprinting, trace evidence (hair), footprints, blood analysis, and handwriting analysis. These activities will help students become better observers by applying the use of careful inspection and paying close attention to details by use of their senses of touch, sight, smell, and sound.

**5582 – Space and Atmospheric Sciences****Grade 12****1 Credit**

This course will cover topics such as, History of Astronomy, Origin of the Universe, Origin of the Solar System, Life cycle of Stars, the nature of our Solar System, the future of Space travel, atmospheric variables of Earth's atmosphere, how these variables determine weather and climate on Earth. Students will be expected to complete research papers, and projects. Students will also complete lab activities that will emphasize the course content.

## SOCIAL STUDIES

### **3412 – Global History & Geography 9**

**Grade 9**

**1 Credit**

This course is the first year of a two-year sequence designed to give students an in-depth knowledge and understanding of world history and the relationship of different cultures to each other. It will feature a chronological approach and will begin with Early Man and conclude with the Age of Absolutism (1750). Skill development will be stressed and current events will be used to show the connection that exists between the past and the present.

### **3413 – Honors Global History 9**

**Grade 9**

**1 Credit**

This course is the first year of a two-year sequence designed to give students a thorough comprehension of world history and the relationship of different cultures to each other. It will feature a chronological approach and will begin with Early Man and conclude with the Age of Absolutism (1750). This course is intended for the highly qualified, academically motivated student and consists of several projects supplemented by outside readings. Current events will be used to illuminate the present world situations.

### **3422 – Global History & Geography 10**

**Grade 10**

**1 Credit**

This course is the second year of the two-year sequence designed to give students an in-depth knowledge and understanding of world history and the relationship of different cultures to one another. It will feature a chronological approach and will begin with the French Revolution and conclude with modern times. Skill development will be stressed and current events will be used to show the connection that exists between the past and the present. Requirements: Regents Examination in June.

### **3423 – Honors Global History 10**

**Grade 10**

**1 Credit**

This course is the second year of the two-year sequence designed to give students a thorough comprehension of world history and the relationship of different cultures to each other. It will feature a chronological approach and will begin with the French Revolution and conclude with modern times. This course is intended for the highly qualified, academically motivated student and consists of several projects supplemented by outside readings. Current events will be used to illuminate the present world situation. Requirements: Regents Examination in June. *Prerequisites: A final average of 90 or higher in Honors Global History 9; 92% or above in Regents Global History 9.*

### **3432 – United States History**

**Grade 11**

**1 Credit**

This course provides an in-depth study of United States history. As prescribed by the New York State Board of Regents, it will include a chronological survey of United States History. There will be a special emphasis on the United States as an industrial and post-industrial nation and the accruing problems. Constitutional and legal issues during this period and their impact on society will also be stressed. Major topics include Reconstruction, Industrialization, the Depression, both World Wars and major conflicts, various presidential administrations as well as many social and economic issues. This course will also focus on current events, concentrating on domestic and international issues. Requirements: United States History Regents in June.

### **3434 – Advanced Placement U. S. History**

**Grade 11**

**1 Credit**

This college-level course is a demanding, in-depth examination of American History from the colonial period to the present day. Both chronological and conceptual views of the United States will be emphasized. The objective of this course is to introduce the student to historical documents of a primary source from which coherent historical accounts are crafted. Like any American History class, all major topics such as Immigration, Industrialization, Imperialism, and Capitalism are studied. However, students taking this course are expected to become critical thinkers by reading an extensive selection of primary documents, which will stimulate reflection on the richness, variety and complexity of American history. All students are required to take the Advanced Placement examination in United States History in May and United States History Regents Examination in June. *Prerequisites: A final average of 92 or higher in Honors Global History 10. Students in Regents Global History 10 must obtain departmental approval.*

**3445 – Economics & Government****Grade 12****1 Credit**

This is a one year course in government, politics, and economics which will focus on the role such forces play in our lives. Students will experience these processes through activities such as voter registration drives, political elections, community service projects, and a stock market project. They will follow the trail of local, state, and national politicians in order to better understand our political environment. Communication and writing skills will be enhanced through these activities. In the area of economics, the student will gain an overview of general economic principles and their use. Concepts such as: scarcity, supply and demand, productivity, growth, and interdependence will be examined. An examination of the New York Stock Market, reporting of taxes, banks, money, and international economics will be included in the course content.

**3444 – A. P. Government & Politics****Grade 12****1 Credit**

This challenging, college-level course is a serious examination of the constitutional underpinnings of the United States government; political beliefs and behaviors; political parties, interest groups and mass media; institutions of national government; the Congress, the presidency, the bureaucracy, and the federal courts; public policy; and civil rights and civil liberties. The course will also look at the role and function of the government in economics; the basic concepts, the interactive nature and function of the economic and political policies. All students are required to take the Advanced Placement Examination in United States Government and Politics in May. *Prerequisites: A final average of 88 or higher in AP U.S. History. Students in Regents U.S. History must obtain departmental approval.*

**3542 – Psychology****Grade 12****½ Credit**

This class will introduce the student to the basic principles underlying the science of psychology. Topics covered will include psychological foundations, abnormal psychology, theories of learning, motivation and emotion. This course will include behavior change contracts and short term projects and experiments in order to facilitate an understanding of psychological theories in the forefront today.

**3543 – Business and Criminal Law****Grade 12****½ Credit**

This course will present a general understanding of the United States legal system and makes the student aware of legal rights and obligations of both minors and adults in society. Topics covered include crimes, torts, contract law, insurance, and employer-employee relationships. Students will examine correctional institutions including jails and prisons. Analysis of ethics will be another element in the curriculum. Business and Criminal Law is an inter-disciplinary field that studies the nature and operations of organizations providing justice services in our society.

**3546 – Geography & Current Issues****Grades 10-12****½ Credit**

We hear about many different events in the news every day and so often we know almost nothing about how they came about or the places, people and cultures involved. In this semester-long elective students will examine current world cultures and geography while exploring the issues behind current world news and events.

**3547 – The 1960's****Grades 10-12****½ Credit**

The years between 1960 and the early 1970's were a very turbulent and eventful time in the history of the United States and many students today are familiar with some elements of that period in our history. In this semester-long elective, students will explore in depth the culture, politics, and historical events of this era using interviews, readings, music, art and many other resources.

## THEOLOGY

**7112 – Theology 9: The Old Testament,  
The Story of God’s Love**

**Grade 9**

**1 Credit**

This course will introduce the students to the self-revelation of God through the People of God and through the Word of God, the Scriptures, in such a way that through reading and studying it, they may come to know it, love it, and desire to share it with others. Key topics covered are Creation, the Call of Abraham, the Covenant at Sinai, The Exodus experience, and the Prophets. The course traces the history of the relationship between God and humanity and points the way to the most intimate of all relationships – the Incarnation.

**7121 – Theology 10: Jesus of History,  
Christ of Faith**

**Grade 10**

**1 Credit**

The church’s understanding of Jesus, and the means used to approach and achieve that understanding, is at the center of everything Catholic Christians believe and do as persons of faith. The intention of this course is to present an enriched understanding of Jesus and his message in a sound and balanced way. It provides a thorough and clear presentation of the life, ministry, message and meaning of Jesus. The approach to understanding Jesus – beginning with the Jesus of History and moving to the Christ of Faith – is the content of this course.

**7131 – Theology 11: Morality & Social Justice**

**Grade 11**

**1 Credit**

Morality guides Christian conscience formation. The course is designed to lead students from a basic understanding of morality and its importance in growth towards maturity. Students will explore the meaning of conscience, the stages of moral development and the nature and importance of moral principles in general, and of the Christian moral principles in particular. Students will grow in an understanding of social justice issues and a greater understanding of the correlation between the Gospel message and the call to action. In addition to the course text students will be required to read two (2) books, one (1) in each semester.

**7142 – Our Catholic Faith**

**Grade 12**

**1 Credit**

The focus of this course is to provide the young adult students with a deeper awareness of what it means to be Catholic. Aspects of the faith – such as symbols, ritual, prayer and the sacraments – will be studied. In addition, the course will provide insight into the high point of our faith – the celebration of the Eucharist and the Mass. This course is structured so that seniors have the opportunity to grow in their understanding of these themes, so essential to the Catholic faith. Many of the concepts should assist the students both in the present and in the future. In addition to the course text students will be required to read four (4) books, one (1) in each quarter.