

## *Saint Raphael Academy Mission Statement*

*Saint Raphael Academy is a Catholic, coeducational, college preparatory school, founded in the tradition of Saint John Baptist de La Salle and rooted in the gospel of Jesus Christ. The Academy welcomes a student body that is academically, economically, and culturally diverse. Through its commitment to Christian values, the Academy strives for excellence in all programs for the spiritual, academic, cultural, and physical development of each student. Saint Raphael Academy seeks to provide a safe environment that places a priority on mutual respect as well as self-discipline. The Academy prepares each student for a life dedicated to learning, leadership and service to the church and community.*



February 2006

Dear SAINTS Students and Parents:

This course catalog has been compiled to assist you in your selection of courses for the **2006-2007 academic year**. Please note several pre-requisite changes as well as the addition of new elective classes being offered.

Please review carefully the contents of this catalog. Each course offered by Saint Raphael Academy is described so you will be familiar with the content and expectations of the course. Each course is assigned an ability grouping—from Advanced Placement to Basic Level courses—in order to provide for each student's academic abilities. As you consider your program of studies for next year, keep in mind the requirements for graduation outlined in this catalog and the worthy goal of creating a challenging academic program. In a college preparatory environment such as SAINTS, it is in the student's best interest to choose a program of study which maximizes his or her ability to learn.

Academic departments have completed student lists for the purpose of appropriate level placement. Soon, the Guidance Department will schedule individual student conferences to assist students in planning course selections. Parental approval of the program of study for their son or daughter will take place before the close of the academic year.

It is particularly important for current juniors and some sophomores to talk to their guidance counselors regarding required or elective courses which are important for college admission and preparation. Subject teachers may also be helpful in this regard.

It is very important to follow the course selection process as described. Students should realize that, while every effort is made to accommodate student elective choices, enrollment level in specific courses, personnel changes, or other factors might affect a student's schedule. Also, it is often impossible to change one's schedule after the master schedule has been completed. In general, once course lists have been distributed, course and/or level changes are to be discouraged since they are often disruptive to learning.

Thank you for your careful attention to this process of course selection. If there are any concerns about this booklet or the process in general, I am always available for assistance.

Sincerely,

Michael Sweeney  
Vice Principal for Academics

# Saint Raphael Academy

## Requirements for Graduation

Religious Studies	4 Credits
English (includes 1 credit in Humanities)	4 Credits
Mathematics	4 Credits
Science (2 laboratory sciences)	3 Credits
Foreign Language	2 Credits (3 preferred)
Social Studies	3 Credits*
Computer Technology	½ Credit
Fine Arts	½ Credit (1 preferred)
Physical/Health Education	1 Credit (¼ per year)

\* Social Studies includes 1.5 credits in U.S. History, 1 Credit in Western Civilization and ½ credit in Humanities.

Saint Raphael Academy is accredited by the New England Association of Schools and Colleges. In addition to passing these courses, students must take and pass a sufficient number of elective courses to accumulate **26 credits**.



## PHYSICAL EDUCATION DEPARTMENT

The main objective of the Physical Education program is physical fitness. Students are tested and re-tested on endurance, strength, running and quickness. Skills are developed through team activities such as soccer, basketball, football, softball, speedball, angle ball, gatorball, team handball, hockey, and volleyball. Strategies, techniques, teamwork, cooperation and the knowledge of game rules are developed. Opportunities are offered for involvement in individual sports such as racquetball, badminton, handball, and floor tennis.

The Freshman and Sophomore programs also include a unit of health education. **The unit of health education must be passed in order for students to be promoted to the next year.** Topics covered in the Freshman year include aspects of physical, mental, social health, self-esteem, emotions, stress, decision making, and nutrition. The Sophomore program addresses the issues of substance abuse (alcohol, drugs, and tobacco) and human sexuality (AIDS and other sexually transmitted diseases).

Course Title: **NINTH GRADE PHYSICAL EDUCATION AND HEALTH**  
Course Numbers: 901; 902 (boys)  
Course Numbers: 904; 905 (girls)

Course Title: **TENTH GRADE PHYSICAL EDUCATION AND HEALTH**  
Course Numbers: 921; 922 (boys)  
Course Numbers: 923; 924 (girls)

Course Title: **ELEVENTH GRADE PHYSICAL EDUCATION**  
Course Numbers: 931; 932 (boys)  
Course Numbers: 951; 952 (girls)

Course Title: **TWELTH GRADE PHYSICAL EDUCATION**  
Course Numbers: 941; 942 (boys)  
Course Numbers: 961; 962 (girls)

## BUSINESS ELECTIVES

Course Title: **ACCOUNTING I**  
Course Level: Intermediate (B) 710  
Course Length: Year  
Course Credit: One  
Pre-Requisite: None  
Grade Level: Juniors/Seniors

This course is designed to present the objectives and basic fundamentals of accounting. Topics include recording of transactions, posting, trial balances, worksheets, adjustments, special books of original entry, subsidiary ledgers, payroll, depreciation, accrued income expenses, and computer based accounting.

Course Title: **PRINCIPLES OF MANAGEMENT**  
Course Level: Intermediate (B) 752  
Course Length: Semester  
Course Credit: One-half  
Pre-requisite: None  
Grade Level: Juniors/Seniors

This course is designed to familiarize students with the characteristics, organization, and operation of a business. Real-life scenarios, realistic business situations, and real-world information are used to give students an understanding of the way business works as it develops their technical knowledge and competence.

Course Title: **SPORTS AND ENTERTAINMENT MARKETING**  
Course Level: Intermediate (B) 760  
Course Length: Semester  
Course Credit: One-half  
Pre-requisite: None  
Grade Level: Juniors/Seniors

This course examines marketing of sports and sports entertainment as well as the world of entertainment marketing. Topics will include the connections and contrasts between sports and entertainment, basics of marketing, market research, sponsorship, licensing and promotion of sports and entertainment products and services.

## RELIGIOUS STUDIES DEPARTMENT

As part of the religious studies program, each student will attend a one-day retreat experience during each academic year. All classes are heterogeneously grouped and assigned B-level credit.

Course Title: **INTRODUCTION TO CATHOLICISM**  
Course Number: 112  
Course Length: Year  
Course Credit: One  
Grade Level: Freshmen

This comprehensive introduction to the Catholic faith explains in a thorough and straight forward manner what it means to be Catholic. It sets the foundation for the high school religion curriculum and establishes a common vocabulary for future religion study.

Course Title: **UNDERSTANDING THE SCRIPTURES**  
Course Number: 122  
Course Length: Year  
Course Credit: One  
Grade Level: Sophomores

This course involves comprehensive and practical consideration of the ancient writings of Israel as found in the Old Testament. Important passages will be examined, and the historical setting and literary purpose of the scriptures will be explored while encouraging student reflections. The course will also help the student explore and appreciate the New Testament, the collection of inspired Christian writings composed in the first century, which records the ministry and meaning of Jesus and the faith of the community of believers.

Course Title: **CHRISTIAN MORALITY**  
Course Number: 130  
Course Length: Semester  
Course Credit: One-half  
Grade Level: Juniors

This course is designed to help the student understand his/ her response to decision making through conscience formation and moral development. It aims at evoking a free response to relationship with God and others as part of values which flow from the Christian philosophy and Catholic teaching and tradition. Moral problems confronting the contemporary Christian are discussed parallel to the teachings of Jesus.

Course Title: **CHRISTIAN LIFESTYLE**  
Course Number: 141  
Course Length: Semester  
Course Credit: One-half  
Grade Level: Juniors

This course is designed to help the student become more aware of lifestyle choices as part of living out our relationships with God and others. Students will look at prayer as a foundation of lifestyle, and they will study the lives of the Saints who have added to our Christian heritage.

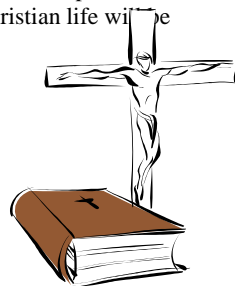
Course Title: **CHRISTIAN ACTION**  
Course Number: 140  
Course Length: Semester  
Course Credit: One-half  
Grade Level: Seniors

The goal of this course is to raise awareness of our responsibility to be active in the living of our faith commitment by serving others. It is designed to broaden the social consciousness of every senior through examination of contemporary social justice issues in conjunction with at least two hours of Christian Service per week in various agencies.

*Seniors will take one of the following elective courses:*

Course Title: **FAITH AND VALUES IN A MEDIA CULTURE**  
Course Number: 150  
Course Length: Semester  
Course Credit: One-half  
Grade Level: Seniors

The purpose of this course is to educate students in media literacy as it pertains to Christian values. Students will be encouraged to consider media products as opportunities for finding Christian Values and to develop criteria for choosing media products which are consistent with their lives as followers of Jesus. The impact of television, films, music, print media, and the Internet on living a Christian life will be considered.



## COMPUTER SCIENCE



Course Title: **KEYBOARDING**  
Course Level: Intermediate (B) 700  
Course Length: Semester  
Course Credit: One -Quarter  
Pre-Requisite: None  
Grade Level: Freshmen

This required course introduces the student to the operation of a computer and the use of Microsoft Word software. Proper keyboarding techniques are taught through the use of MS Word. In addition to keyboarding skills, the students are instructed in the formatting capabilities of MS Word.

Course Title: **COMPUTER APPLICATIONS**  
Course Level: Intermediate (B) 701  
Course Length: Semester  
Course Credit: One-Quarter  
Pre-Requisite: None  
Grade Level: Sophomores

This required course continues the instruction of MS Word and introduces students to the basics of other Microsoft Office Programs. The programs taught are MS Access, MS Excel, and MS PowerPoint. Each software program covered requires the student to complete projects and reports from the appropriate software.

Course Title: **ADVANCED COMPUTER APPLICATIONS**  
Course Level: Intermediate (B) 702  
Course Length: Semester  
Course Credit: One-half  
Pre-Requisite: None  
Grade Level: Juniors and Seniors

This hands-on course instructs students in advanced applications of Word, Access, Excel, PowerPoint and/or other demonstration software. Independent learning will be emphasized.

## ***Performing Arts Electives***

Course Title: **CHORUS**  
Course Level: Intermediate (B) 840  
Course Length: Semester  
Course Credit: One-Half  
Grade Level: Juniors/Seniors

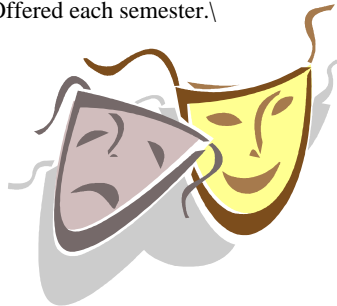
This class will learn and perform classical choral music from the Medieval Period through the 20th century. Drawing from important American musical styles, the class will also study and perform Vocal Jazz music and Musical Theater styles. By learning diverse styles of music, students will discover and conquer challenges found in each type of music. The class will result in performance opportunities, including school events and off-campus performances

Course Title: **MATERIALS OF MUSIC**  
Course Level: Intermediate (B) 835  
Course Length: Semester  
Course Credit: One-Half  
Grade Level: Juniors/Seniors

This course is for students who appreciate music and desire a clearer understanding of the art form. The basics of music notation will be covered including reading notes, learning to play the piano, learning to write music, and learning to translate sound to music notation. Written and listening exercises and playing instruments will provide the basis for study. Students will listen to great musical works from the various periods of Western Music along with American musical styles. The course is recommended for any student who loves music and would appreciate a better understanding of the art form. In addition, those who sing or play an instrument by ear will find the course a helpful aid in their development as musicians.

Course Title: **INTRODUCTION TO THEATER ARTS**  
Course Level: Intermediate (B) 805  
Course Length: Semester  
Course Credit: One-Half  
Grade Level: Juniors/Seniors

This course is intended to provide the student with a greater understanding of, practice in, and appreciation for all dimensions of the live theater experience. This will include acting, directing, lighting, set design, and make up. This will be accomplished through readings, discussions, projects, student centered classroom activities and critiquing of live performances off campus. Offered each semester.\



Course Title: **DEATH AND DYING**  
Course Number: 160  
Course Length: Semester  
Course Credit: One-half  
Grade Level: Seniors

This course is focused on giving students information that will help them deal with death when it occurs in their own family and relationships. The focus will be to provide a perspective of faith that will serve as a source of strength in times of sorrow. How death is viewed in our culture, as well as other cultures, will be discussed. Emphasis is placed on the grieving process, ethical issues, funerals as well as the Catholic practices, beliefs, and teachings regarding death. The course will stress the concept of eternal life and Jesus' resurrection which conquered death.

## **ENGLISH DEPARTMENT**

Course Title: **ENGLISH 10: LANGUAGE ARTS/ LITERATURE II**  
Course Level: Honors (A) 220; Intermediate (B) 221; Basic (C) 222  
Course Length: Year  
Course Credit: One  
Pre-Requisite: English 9, Humanities  
Grade Level: Sophomores

Students begin a three-year program that introduces them to analytical writing. Using the computer to draft, edit and revise, students complete several pieces of writing that require critical thinking skills. Through the study of novels, short stories, poetry, plays, and nonfiction from around the world, students integrate language skills, vocabulary study, and reading comprehension necessary for success on the SAT and entrance into college. Students are required to read several works for summer reading.

Course Title: **ENGLISH 11: AMERICAN LITERATURE AND LANGUAGE ARTS**  
Course Level: Honors (A) 230; Intermediate (B) 231; Basic (C) 232  
Course Length: Year  
Course Credit: One  
Pre-Requisite: English 10  
Grade Level: Juniors

Students continue to work on essays of critical literary analysis, using the computer to draft, revise, and edit. By the end of the first semester, students will have completed a research paper after learning the process step-by-step. Through reading and analysis of American Literature, students integrate language skills, vocabulary study, and reading comprehension with a focus on preparation for the SAT and entrance into college. In addition to several American novels, students may also read a Shakespearean play. A required summer reading program continues in the junior year.

Course Title: **ENGLISH 12: BRITISH LITERATURE AND LANGUAGE ARTS**  
Course Level: Honors (A) 240, Intermediate (B) 241, Basic (C) 242  
Course Length: Year  
Course Credit: One  
Pre-Requisite: English 11  
Grade Level: Seniors

Students continue to work on several types of writing, including the college essay, persuasion, comparison/contrast, and literary analysis, using the computer to draft, revise, and edit. Through the study of British Literature, students integrate language skills, vocabulary skills and reading comprehension necessary for success on the SAT and entrance into college. Students read several British novels and at least two British plays including Macbeth. Students are required to read several works for summer reading.

Course Title: **ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION**  
Course Level: Honors (AP) 249  
Course Length: Year  
Course Credit: One  
Pre-Requisite: English 11A, acceptance by AP instructor and Dept. Head.  
Grade Level: Seniors

The advanced placement (AP) class in English is open to a select group of honors' level students who wish to seek college credit for studies in English during their senior year. Successful completion of the year of study provides the student with the required high school credit for graduation while preparing him/ her for a special examination administered in the spring. The student who is successful at this examination will also earn college credit (from 3 to 6 credits, depending on the college). These credits may be applied to an institution of higher learning. The scope, breadth and depth of the course are far more extensive and demanding than that of an A level class. Students will be responsible for independent reading, thoughtful class discussion, and several papers of literary analysis, as well as extensive summer reading.

### *English Department Electives*

Course Title: **PUBLIC SPEAKING**  
Course level: Intermediate (B) 243  
Course length: One semester  
Course credit: One-half  
Grade level: Juniors and Seniors

The basic and intermediate level students who have had difficulty organizing and expressing themselves in written form will benefit from this elective course. Repeating the writing process as presented in their English classes, students will learn how to creatively write a variety of presentations that are descriptive, expository, and persuasive in nature. Students will also learn the rudiments of public speaking - presentations, content, and organization - which are necessary for success on the college level. By the conclusion of the course, students will have improved both their techniques and enjoyment of written and oral communication.

## **FINE ARTS**

### *Visual Arts Electives*

Course Title: **DRAWING AND PAINTING I**  
Course Level: Intermediate (B) 800  
Course Length: Semester  
Course Credit: One-Half  
Grade Level: Juniors or Seniors

In this course, students will experiment with many drawing and painting materials and techniques. Students will have the opportunity to develop their drawing skills through an intense series of assignments. Materials will include pencil, charcoal, pen and ink, pastel, watercolor and tempera paint.

Course Title: **DRAWING AND PAINTING II**  
Course Level: Intermediate (B) 810  
Course Length: Semester  
Course Credit: One-Half  
Pre-Requisite: Drawing and Painting I and permission of instructor  
Grade Level: Juniors or Seniors

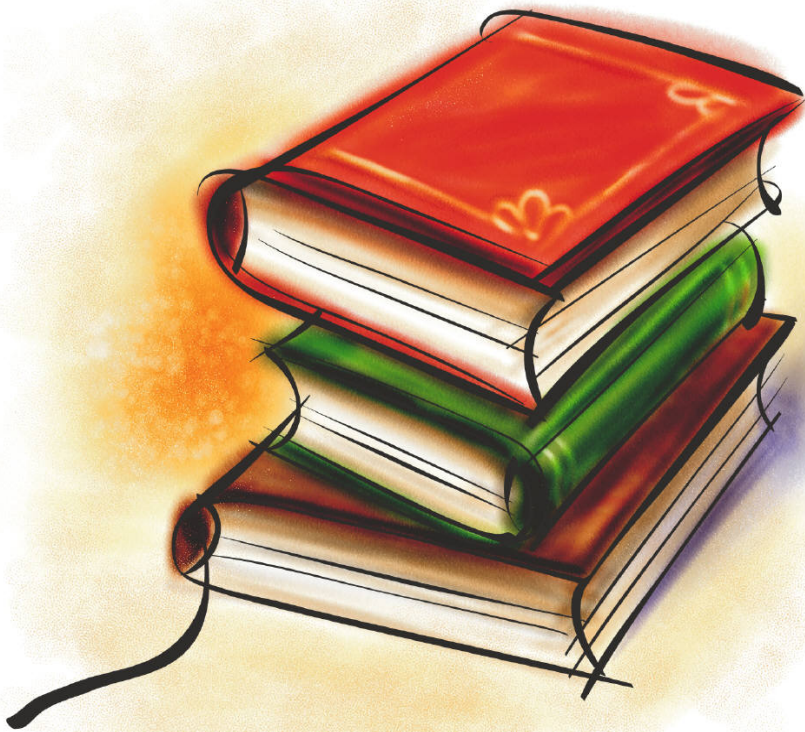
This course is designed for students who like to draw and paint and have some experience or ability in art. A wide range of assignments will encourage the exploration of a personal direction in art. Materials will include pencil, charcoal, pastel, watercolor, tempera, and acrylic paints.

Course Title: **SCULPTURE**  
Course Level: Intermediate (B) 825  
Course Length: Semester  
Course Credit: One-Half  
Grade Level: Juniors or Seniors

This course focuses on the study of three-dimensional design. Using a variety of materials, students will create sculptural forms, both realistic and abstract. Projects will include modeling, carving, and construction.

Course Title: **DESIGN/PRINTMAKING**  
Course Level: Intermediate (B) 830  
Course Length: Semester  
Course Credit: One-Half  
Grade Level: Juniors/Seniors

This course is an introduction to the basics of art design and printmaking. Students will learn to develop their skills and creativity using drawing, painting and printmaking materials. Computer based assignments will be given. No prior experience needed.



Course Title: **JOURNALISM**  
Course Level: Intermediate (B) 244  
Pre-Requisite: Permission of Department Chair  
Course Length: One semester  
Course Credit: One-Half  
Grade Level: Juniors or Seniors

The course is an introduction to basic journalistic writing as well as survey of its history and a discussion of ethical issues confronting journalists today. The first quarter will focus on the WHO, WHAT, WHEN, WHERE and WHY of general news, sports, review (food, music, books, film), and editorial writing as well as a historical survey of the development of journalism. The second quarter will focus on writing various kinds of magazine writing. In addition to learning the specific skills basic to journalistic writing, students will also strengthen their general skill of clear and active writing, research, and question-and-answer learning.

Course Title: **CREATIVE WRITING**  
Course Level: Intermediate (B) 245  
Pre-requisite: Permission of Department Chair  
Course Length: One semester  
Course Credit: One-half  
Grade Level: Junior or Seniors

This course will introduce students to the principles and skills of creative non-fiction and fiction writing. In the first quarter we will work on refining our writing skills by focusing on writing creative non-fiction, which may include poetry, memoirs, travel essays, opinion pieces and the traditional personal essay of ideas. The second quarter we will apply those skills to writing fiction, in particular, the short story. We will focus on description, character and plot development, and showing, not telling, the moral of a story. For the serious writer this course will allow a student to hone his or her skills, while for the armchair writer this course will teach him or her more about literature in general by doing what writers do.

## MATHEMATICS DEPARTMENT

**\*\*Please note: Incoming freshmen who have taken a full year of Algebra I may take a math exam to ensure proper placement.**

Course Title: **ALGEBRA I**  
Course Level: Honors (A) 310; Intermediate (B) 311  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Departmental placement  
Grade Level: Freshmen

This course will introduce the student to the basic language of algebra. Students will explore expressions, equations, functions, rational numbers, and polynomials. They will learn how to solve linear equations, use proportional reasoning and factoring, graph relations and functions, and analyze and solve linear equations. Word problems related to these topics will be included through out the course.

Course Title: **ALGEBRA I, PART I**  
Course Level: Basic (C) 312  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Departmental placement  
Grade Level: Freshmen

This course is designed for students of basic mathematical ability. This course includes a sound, basic treatment of essential algebraic skills and concepts. The teacher will progress as far as possible with the class based on the student's abilities. The next course (Algebra I, Part II) will continue the study of Algebra I from where the class ended in Part I. At the conclusion of the course, (Algebra I Part II), the student will have a solid foundation in the Algebra I skills necessary for his/her future success in mathematics.

**Please note:** Algebra I, Part I students wishing to bypass Algebra I, Part II must meet the requirements, complete an independent study and pass an examination.

Course Title: **ALGEBRA I, Part II**  
Course Level: Basic (C) 313  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Algebra I, Part I or permission of the Department Head  
Grade Level: Freshmen or Sophomores

This course is designed to complete the study of Algebra I introduced in Algebra I, Part I. Upon completion of the Algebra I concepts, there will be an introduction to the basics of geometry. At the completion of this course, the student should have the equivalent or one full year of Algebra I taken at the B level and will have a foundation for a full year study of geometry.

## HUMANITIES DEPARTMENT

Course Title: **HUMANITIES: AN INTERDISCIPLINARY THEMATIC PROGRAM**  
Course Level: Intermediate (B) 011  
Course Length: Year  
Course Credit: One credit of English  
One-half credit of Social Studies  
One-half credit of Fine Art  
Grade Level: Freshmen

**This is a 2 credit required course for all Freshmen.**

World Literature, Social Studies, and Fine Arts will be studied in an interdisciplinary format with a team teaching approach. This two block course includes basic skills such as grammar, vocabulary building, and research techniques. Outside reading and written composition are also important components of the course. The computer will be employed as an instructional tool where appropriate.

Course Title: **ACADEMIC FOUNDATIONS**  
Course Level: Basic (C) 012  
Course Length: Year  
Course Credit: One credit  
Pre-Requisite: Departmental Placement  
Grade Level: Freshmen

This course is required of selected freshmen as determined by skills assessed in our Summer Readiness program. Freshmen enrolled in this year-long course improve basic writing strategies while creating various paragraph and essay-length papers, review grammar, and develop their time-management and study skills. Students also practice critical reading and thinking skills using various learning tools including print and electronic resources. Students prepare and complete a portfolio of work each quarter, culminating in a year-long best practices book.



## *Social Studies Electives*

Course Title: **REEL HISTORY: World History through Film**  
Course Level: Intermediate (B) 646  
Course Length: Semester  
Course Credit: One-Half  
Grade Level: Juniors and Seniors

This course is designed to examine some basic concepts in World History through the use of films. Such topics as Imperialism, Militarism, Revolution, Religious Protest, Exploration, Ethnic Cleansing, Slavery, Totalitarianism and Communism may be covered.

Course Title: **PSYCHOLOGY I – General Topics in Psychology**  
Course Level: Intermediate (B) 643  
Course Length: Semester  
Course Credit: One-Half  
Pre-Requisite: None  
Grade Level: Seniors

This course is a basic introduction to psychology which focuses on the following areas: experimental methods, infant and child development, adolescent development, learning theories, sensation and perception.

Course Title: **PSYCHOLOGY II – Personality:Theories and Disorders**  
Course Level: Intermediate (B) 644  
Course Length: Semester  
Course Credit: One-Half  
Pre-Requisite: None  
Grade Level: Seniors

This course is a basic introduction to psychology which focuses on personality theories and disorders. Research papers and outside reading will be required. Psychology I is not needed to take this course.

Course Title: **AMERICAN GOVERNMENT and LAW**  
Course Level: Intermediate (B) 645  
Course Length: Semester  
Course Credit: One-Half  
Grade Level: Juniors and Seniors

This course surveys the elements and organization of U.S. government and basic principles of citizenship. The course will include an examination of the US Constitution and Bill of Rights. Emphasis will be placed on preparing students to become informed voters.

Course Title: **GEOMETRY**  
Course Level: Honors (A) 330, Intermediate (B) 331, Basic (C) 332  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Algebra I, Algebra I, Part II

This course contains Euclidean Geometry but will also develop students' skills in visualization, pictorial representation, and the application of geometric ideas to describe and answer questions about natural, physical, and social phenomena. Students will connect reasoning and proof, proportion and similarity; will use perpendicular and parallel lines; will identify and apply right triangles and trigonometry and will analyze circles. Honors level classes will study trigonometric functions more in-depth. The Basic level will not cover material as in-depth as the other levels, but the core topics will still be studied.

Course Title: **ALGEBRA II**  
Course Level: Honors (A) 320; Intermediate (B) 321;  
Course Length: Year  
Course Credit: One  
Pre-Requisite: A full course in Algebra I or Algebra I, Part II, or permission of the Department Head

This course will review materials presented in the Algebra I course and further topics by presenting new and related material. Topics included in this course are: graphing linear equations, solving systems of equations, using rational expressions, solving quadratic equations, functions, and radicals. Word problems related to these topics will be included throughout the course. Honors level will also include exponential, logarithmic and circular functions. **Students are required to purchase a graphic calculator – TI-83 or TI-83 Plus is preferred.** The graphic calculator is also used in Pre-Calculus and Calculus.

**Please note:** Algebra II A students wishing to bypass Pre-Calculus must meet the requirements, complete an independent study and pass an examination.

Course Title: **PRE-CALCULUS**  
Course Level: Honors (A) 341, Intermediate (B) 340  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Algebra II and Geometry  
Grade Level: Juniors and Seniors

This course presents a study of trigonometry, as well as advanced algebra, theory of equations, and analytic geometry. Topics chosen for the A-level are designed as a pre-calculus course for the student who is preparing for a rigorous in Calculus. The B-level course for the student will place more emphasis on trigonometry and will be taught at a slower pace.

## SOCIAL STUDIES DEPARTMENT

Course Title: **CALCULUS**  
Course Level: Honors (A) 342  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Pre-Calculus or Algebra IIA with a 90 or better average  
and permission of the Department Head  
Grade Level: Seniors

This course introduces students to the fundamental concepts, techniques, and applications of the differential calculus of one variable and begins the study of integration. The calculus and analytical geometry of algebraic and trigonometric functions are also covered. The course will be taught at a much slower pace than the AP level.

Course Title: **ADVANCED PLACEMENT CALCULUS**  
Course Level: Advanced Placement (AP) 345  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Pre-Calculus or Algebra IIA with a 90 or better average  
and permission of the Department Head  
Grade Level: Seniors

This course introduces students to the theory and application of differential and integral calculus of a single variable. An emphasis will be placed on developing an intuitive understanding of the principles of calculus. Topics that are covered include limits and its properties, differentiation and its applications, logarithmic functions, exponential functions, and various integration techniques. Students then take the AP Calculus AB examination in May, which determines college placement and/or credit.

Course Title: **MATHEMATICAL REASONING**  
Course Level: Intermediate (B) 343  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Algebra II, Geometry, and permission of the  
Department Chair

This course will begin with topics in Algebra and Geometry in preparation for taking the Scholastic Aptitude Test. After the November SAT's, students will study problem-solving, probability and statistics. If time allows, other topics in math might be presented at the teacher's discretion. Students may only be admitted to this course with a **teacher recommendation and permission from the Department Chair.**

Course Title: **WESTERN CIVILIZATION**  
Course Level: Honors (A) 620; Intermediate (B) 621; Basic (C) 622  
Course Length: Year  
Course Credit: One  
Grade Level: Sophomores

This course is a survey of the history of western civilization from ancient times to the 19th Century. The major political, social, and intellectual movements will be covered with particular attention given to map work, projects, and library research.

Course Title: **UNITED STATES HISTORY**  
Course Level: Honors (A) 630, Intermediate (B) 631, Basic (C) 632  
Early Enrollment (EEP) 633  
Course Length: Year  
Course Credit: One  
Grade Level: Juniors

This course examines the major themes of United States History from Pre-Columbian America to the Spanish-American War. Essays and a research project will be required. Students enrolled in EEP have the opportunity to earn college credit from Rhode Island College.

Course Title: **THE UNITED STATES IN THE 20TH CENTURY**  
Course Level: Honors (A) 640, Intermediate (B) 641, Basic (C) 642  
Course Length: Semester  
Course Credit: One-Half  
Pre-Requisite: United States History  
Grade Level: Seniors

This course is designed to examine the political, economic, social and military growth of the United States in the 20th Century. Special attention will be paid to foreign policy. Outside readings and a project will be required.

## SCIENCE DEPARTMENT

Course Title: **SPANISH IV**  
Course Level: Intermediate (B) 581  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Completion of Spanish IIIB with an 85 average or better, recommendation of the teacher, and permission of the Department Chair  
Grade Level: Junior and Seniors

This course is designed for those students who have completed Spanish IIIB. They learn more complex grammar points and a variety of new verb tenses, as well as new vocabulary which they are expected to use more proficiently in the four areas of communication. They also continue their study of Hispanic culture and civilization.

Course Title: **SPANISH V**  
Course Level: Honors (A) 590  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Completion of Spanish IVA and recommendation of the teacher  
Grade Level: Seniors

This course is designed as a continuation of Spanish IVA. Much of the course work is completed through independent study. Study of Hispanic culture is continued through short stories, novels and films. Advanced grammar points are reviewed and students are expected to perform at an advanced level in all four forms of communication: speaking, listening, reading and writing. Students have the option of receiving college credit through the Early Enrollment Program at Rhode Island College.

Course Title: **PHYSICAL SCIENCE**  
Course Level: Basic (C) 411  
Course Length: Year  
Course Credit: One  
Grade Level: Freshmen

Physical Science is designed to acquaint the student with the major topics included within the realm of the physical world. As a survey course, the varied areas of chemistry and physics are explored on an introductory basis. Students are introduced to laboratory work and learn basic laboratory skills and techniques that will be of value for future course work in science. Specific areas to be discussed in this course include the following: matter, energy, machines, motion and laws of motion, elements and compounds, the periodic table, chemical and nuclear reactions, and other selected topics.

Course Title: **BIOLOGY**  
Course Level: Honors (A) 420; Intermediate (B) 421, Basic (C) 422  
Course Length: Year  
Course Credit: One  
Pre-Requisite: None  
Grade Level: Freshmen (A,B) Sophomores ( C )

Biology is a one-year course which introduces the student to the study of life. Through lecture and laboratory activities, the student becomes acquainted with basic biological concepts and principles. Topics include the diversity of life, biochemical and structural basis of living organism, cell metabolism, and genetic continuity and mechanisms. The topics to be discussed and viewed will deal primarily with the cell, representative invertebrates and vertebrates, and a survey of human biology.

Course Title: **CHEMISTRY**  
Course Level: Honors (A) 430; Intermediate (B) 431; Basic (C) 432  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Successful completion of Biology  
Grade Level: Sophomores and Juniors

Chemistry is the science which examines the structure of matter, its properties, and the changes it undergoes. In this course, the student will make use of both experiment and theory to gain a better understanding of the nature of matter. This course presents discussions dealing with measurement, elements, mixtures and compounds, formulas and equation, chemical reactions, the use of the periodic table, and the mole concept. Additional topics may be discussed at the discretion of the teacher. The honors and intermediate sections place greater emphasis on mathematical concepts.

Course Title: **ADVANCED PLACEMENT BIOLOGY**  
Course Level: Advanced Placement (AP) 425  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Biology A, Chemistry A, permission of Department Chair  
and 88 average or better.  
Grade Level: Juniors/ Seniors

Advanced Placement Biology is a continuation of Biology A. While the student continues the topics covered in Biology A and proceeds to a mastery of the material that will be included on the AP Biology exam administered in the spring, the focus will be on laboratory experience which requires a thorough knowledge of Chemistry. Students receiving a qualifying grade on the exam normally are eligible for course credit at many colleges and universities. **Independent study and before/after school lab time will be required.**

Course Title: **PHYSICS**  
Course Level: Honors (A) 440  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Biology A, Chemistry A, Algebra I, Geometry,  
permission of the Department Head and an 85 average or  
better.  
Grade Level: Juniors/Seniors

Physics A introduces the student to the basic concepts and principles of Newtonian mechanics (force-motion-energy relationships), thermal physics (phase changes, heat transfer, thermodynamics), wave motion (sound, light, optics), and of electricity and magnetism. Laboratory work provides opportunities to demonstrate principles and investigate practical applications.

Course Title: **PHYSICS**  
Course Level: Intermediate (B) 441  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Biology B and Chemistry B  
and permission of Department Head  
Grade Level: Juniors/ Seniors

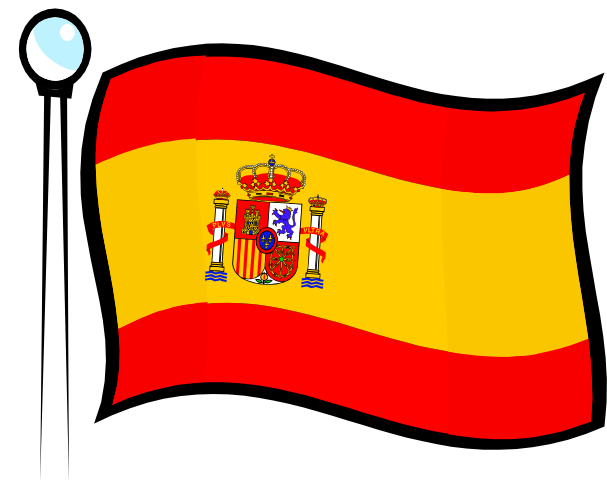
Physics B introduces the students to the basic concepts and analysis of force-motion-energy relationships, thermal physics, wave motion (sound, light, optics), and of electricity and magnetism. Laboratory work provides opportunities to demonstrate principles and investigate practical applications. A hands on approach is employed.

Course Title: **SPANISH III**  
Course Level: Intermediate (B) 571  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Completion of Spanish IIB with an 80 average  
or better and/or recommendation of the teacher  
Grade Level: Sophomores Juniors or Seniors

Students will increase their knowledge of Spanish grammar and verbs and they acquire new vocabulary, all of which they are expected to begin to use more proficiently in the four areas of communication. They also continue to become more familiar with Hispanic culture and civilization.

Course Title: **SPANISH IV**  
Course Level: Honors (A) 580, Early Enrollment (EEP) 555  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Successful completion of Spanish IIIA and  
recommendation of the teacher. An 85 average or better  
for EEP credit.  
Grade Level: Seniors

Students review grammar and verb tenses and are introduced to new, more complex structures which they are expected to use more proficiently in the four areas of communication. They complete an in-depth study of Hispanic culture and civilization, as well as being introduced to Hispanic literature. Students have the option of receiving college credit for this course through the Early Enrollment Program at Rhode Island College.



Course Title: **SPANISH I**  
Course Level: Honors (A) 551; Intermediate (B) 552; Basic (C) 553  
Course Length: Year  
Course Credit: One  
Pre-Requisite: None  
Grade Level: Freshmen and Sophomores

This course is designed for students to acquire a second language. Students who enroll in this course should have minimal or no exposure to Spanish. Students will learn elementary grammar points and acquire basic vocabulary which covers greetings, months, colors, weather, basic objects and the like. Students will also begin to learn about Hispanic culture and civilization both past and present. This is not a course for native Spanish speakers.

Course Title: **SPANISH II**  
Course Level: Honors (A) 561; Intermediate (B); 562; Basic (C) 563  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Successful completion of Spanish I  
Grade Level: Freshmen, Sophomores or Juniors

This course is designed for students who have successfully completed level 1 of Spanish or who have had a limited exposure to Spanish in Middle School or outside the classroom. This course is not designed for students who are fluent in the language. The course continues to develop the four communication skills. Grammar becomes more complex and includes knowledge of various tenses. The study of Hispanic culture and civilization continues. ***Students who receive C credit for Spanish II may not advance to Spanish III.***

Course Title: **SPANISH III**  
Course Level: Honors (A) 570  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Completion of Spanish IIA with an 85 average or better and permission of Department Chair  
Grade Level: Sophomores, Juniors or Seniors

Students learn complex grammar points, a variety of verb tenses, and new vocabulary, all of which they are expected to begin to use more proficiently in the four areas of communication. They also continue to become more familiar with Hispanic culture and civilization.

Course Title: **ANATOMY**  
Course Level: Intermediate (B) 444  
Course Length: Semester  
Course Credit: One-Half  
Pre-Requisite: None  
Grade Level: Seniors

This course is designed to familiarize the student with the functioning of his/her body parts and how these body parts function as a unit. It is a comprehensive survey course which examines each of the body systems. Points of interest will include the effects of tobacco, alcohol and other drugs on body functioning.

Course Title: **ASTRONOMY**  
Course Level: Intermediate (B) 446  
Course Length: Semester  
Course Credit: One-Half  
Pre-Requisite: None  
Grade Level: Seniors

Astronomy is the study of the Universe and the celestial bodies, gas, and dust within it. Astronomy also includes Cosmology, the study of the Universe and its past and future. Topics of discussion include Electromagnetic spectrum, the Solar System, stars, and Galaxies.

Course Title: **FORENSIC SCIENCE**  
Course Level: Intermediate (B) 447  
Course Length: Semester  
Course Credit: One-Half  
Pre-Requisite: Biology and Chemistry  
Grade Level: Seniors

Forensic Science is a semester long laboratory elective that discusses the relationship between science and a court of Law. Topics will include evidence collection, hair and fiber analysis, fingerprinting, DNA evidence, tool markings, crime scene processing, and other forms of physical evidence. At the completion of the course students will have knowledge of the types of evidence, how evidence can be used to convict or exonerate a suspect, and the laboratory skills involved in processing evidence.

## FOREIGN LANGUAGE DEPARTMENT

**Please note: Incoming freshmen may take a language exam to ensure proper placement.**

It is the objective of the Foreign Language department to offer students a language program that is both challenging and fulfilling. In order to accomplish this goal, we strongly encourage native speakers of Spanish or students with ample exposure to Spanish to select French as their foreign language requirement. By doing so, students will satisfy the basic principle of learning a foreign language; namely, that it truly will be foreign and therefore challenging.

Course Title: **FRENCH I**  
Course Level: Honors (A) 510; Intermediate (B) 511  
Course Length: Year  
Course Credit: One  
Pre-Requisite: None  
Grade Level: Freshmen and Sophomores

Much emphasis is placed on the acquisition of listening and speaking skills, as well as on reading and writing. Students learn elementary grammar points and acquire a vocabulary which covers such immediate needs as greetings, months, colors, weather, basic objects, and the like. They also begin to learn about French culture and civilization, both past and present.

Course Title: **FRENCH II**  
Course Level: Honors (A) 520; Intermediate (B) 521  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Successful completion of French I  
Grade Level: Freshmen, Sophomores and Juniors

Students continue their development of the four communication skills. Grammar becomes more complex and includes knowledge of various tenses. There is great emphasis on the acquisition of new vocabulary. Students also continue to broaden their knowledge of French culture and civilization. *Students who receive C credit for French II may not advance to French III.*

Course Title: **FRENCH III A**  
Course Level: Honors (A) 530  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Completion of French IIA with an 85 average or better and/or recommendation of the teacher  
Grade Level: Sophomores, Juniors and Seniors

Students learn complex grammar points, a variety of verb tenses, and new vocabulary, all of which they are expected to begin to use more proficiently in the four areas of communication. They also continue to become more familiar with French culture and civilization through selected videos and coordinated field trips to area museums whenever feasible.

Course Title: **FRENCH III B**  
Course Level: Intermediate (B) 531  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Completion of French IIB with an 80 average or better and/or recommendation of the teacher  
Grade Level: Sophomores, Juniors and Seniors

Students increase their knowledge of French grammar and verbs and they acquire new vocabulary, all of which they are expected to begin to use more proficiently in the four areas of communication. They also continue to become more familiar with French culture and civilization through selected videos and coordinated field trips to area museums whenever feasible.

Course Title: **FRENCH IV**  
Course Level: Honors (A) 540; Early Enrollment (EEP) 542  
Course Length: Year  
Course Credit: One  
Pre-Requisite: Successful completion of French IIIA and recommendation of the teacher.  
An 85 average or better for EEP credit.  
Grade Level: Juniors and Seniors

Students review grammar and verb tenses which they are expected to use more proficiently in the four areas of communication. They complete an in-depth study of the culture and civilization of France and/or francophone countries, with special emphasis on contemporary issues. They read works by famous French authors and watch and discuss French films. EEP students have the opportunity to earn college credit from Rhode Island College.

Course Title: **FRENCH IV**  
Course Level: Intermediate (B) 541  
Course Length: Year  
Course Credit: One  
Pre-Requisite: B average in French IIIB with an 85 average or better, the recommendation of the teacher, and approval of the Department Chair.  
Grade Level: Seniors

This course is designed for those students who have completed French IIIB. They learn more complex grammar points and a variety of new verb tenses, as well as new vocabulary which they are expected to use more proficiently in the four areas of communication. They also continue their study of French culture and civilization.