

## **ACADEMIES @ ENGLEWOOD PROFILE**

### **History**

The Academies @ Englewood (A@E) began in late August 2001 when conversations between the administrative team at the Bergen County Technical Schools District and the Englewood Board of Education began in earnest. A partnership between the two districts was presented as a means to attract motivated students to Dwight Morrow High School (DMHS), integrate the school system, and provide superior Academy programs for Englewood and out of district students. Englewood is the perfect venue for this partnership because it participates in the Interdistrict Public School Choice Program. In a unique partnership between the Englewood Board of Education and the Bergen County Technical Schools District, the Academies @ Englewood was born. The five magnet Academy programs are as follows:

*Biomedicine Academy*  
*Finance Academy*  
*Information Systems Academy*  
*Law and Public Safety Academy*  
*Pre-Engineering Academy*

Each Academy program prepares its students to meet the academic rigors of college, the corporate world, and beyond through a specialized blend of academic, technical and support classes. Partnerships with Project Lead the Way, the National Academy Foundation, etc., are currently in place.

### **School Year and Student Schedules**

The Academies @ Englewood has a traditional school calendar of approximately 180 days that begins in September and ends in late June. AE students have an extended school day that officially is in session from 8:00 a.m. until 4:00 p.m., but often extends beyond for special student projects. The year is divided into trimesters of equal length. The average class size is typically 20 or fewer. Courses generally meet five times per week, except Academy focus courses which meet every other day and electives which meet two. Clubs meet one period per week on Thursdays.

### **Structure of the Academic Classes**

Every A@E student is required to take core courses that exceed NJ State Standards. In addition, students study in the specialized field of their choice via required and elective classes. Because of the spread of the intellectual preparedness for incoming classes, students are placed according to abilities in their world language and mathematics courses across the Academies. In addition, special enrichment classes are required for students who need these services.

### **Student Placement/Core Classes & Electives**

Preliminary testing is made in May for placement of students in math and world language classes. The results of these tests determine class requirements above the core. To prepare students for the September opening, Academy Extra classes are available over the summer and are taught by current Academies @ Englewood teachers. Parents and students are notified of the aforementioned via letter.

### **World Language/Math Placement**

French and Spanish are offered at the beginning, intermediate, and heritage levels. ESL students are given special assistance in core classes by an experienced ESL instructor. Native speaking Spanish students are scheduled together in homogenous classes. Math placement is made following an in-house test. Students may follow a traditional/nontraditional math sequence according to ability and motivation.

### **Summer Reading**

At the Induction Ceremony or shortly afterward, all A@E students are given a summer reading requirement. These reading selections are part of the English 9 and U.S. History I core courses and must be completed before classes begin in September. Students have required reading every summer thereafter.

### **Student Profile**

The Academies @ Englewood seeks mature 8th grade individuals who have both an aptitude for academic challenge and an intense interest in the career focus of the program to which they are accepted. Students are notified of acceptance in April and are officially inducted into the incoming class in a gala Induction Ceremony in early spring.

### **Faculty Profile/School Governance**

Most instructors hold a Master's Degree or higher. Every instructor is hired for expertise in specialized fields and the multidimensional aspect of his or her talents. New faculty are hired by committee and required to go through a nontraditional interview process that includes teaching a class.

The Principal and central administration oversee the development and implementation of the program. Four program managers/teachers are also assigned to oversee curriculum and department matters in addition to their teaching responsibilities. Teachers are empowered to govern the school. Although there are no department chairs, department members recommend prospective new hires for subsequent years. All prospective teachers are required to interview with department members and prepare a model lesson, which is reviewed by students and faculty. Successful candidates are then recommended to the Board of Education for hire. Each department seeks individuals who bring a specialized talent that balances the expertise of current staff members.

### **Curriculum and Graduation Requirements**

Core classes are rotated on a cyclical basis. The core curriculum requirements for AE students exceed New Jersey State guidelines. The course of study is hands-on, comprehensive, project-driven, nontraditional, and requires motivation and commitment. Each program has distinct requirements in concentrated majors, but all require the following: four years of English, mathematics, physical education, science; three years of social studies and world language; two years of technology, art/music. In addition, students take three years of Guidance Projects and clubs. A@E offers electives based on the expertise of staff, some of which are required prerequisites for specialized programs, but are open to all students. A Senior Experience internship in 12th grade, passing the HSPA, and forty hours of community service are also required for graduation.

### **Extracurricular Activities**

Academies @ Englewood students share in a rich learning environment which offers each the chance to participate in independent study, technical, athletic and academic competitions. A@E offers a wide selection of clubs to be determined each year by student and faculty interest. Students interested in sports play with DMHS athletes.

### **Grading System**

Grading for the Academies @ Englewood occurs on a trimester basis.

Evaluation is as follows:

A, A-, B+, B, B-, C+, C, C-, D, F, I

Assessment for some elective courses not included in the GPA are:

P - Pass, F - Fail, O - Outstanding, S - Satisfactory

N - Needs Improvement, U - Unsatisfactory

Grade Scale:

A=4.0, A-=3.80, B+=3.33, B=3.0, B-=2.80, C+=2.33, C=2.0, C-=1.80, D=1.0,

F=0, I=0

### **AP Courses**

Students electing to take AP courses in upper grades will receive 5-8 credits for each AP course depending on the number of course meetings per week.

### **Progress Reports**

Progress reports are mailed home halfway through each trimester. Parents and students are encouraged to contact teachers personally for more detail on these reports.

### **Report Cards**

Report cards are mailed home three (3) times each school year at the close of each trimester. Report cards include the trimester letter grade and a brief comment by the instructor. Attendance and tardies are noted. Only the final grade for the year appears on a student's transcript.

### **Honor Roll**

Each trimester, students who achieve all A's in core courses (with no elective classes below a "C") are distinguished by being named to the Honor Roll. The list is published, and students are awarded a certificate.

### **Principal's List**

The Principal's List seeks to augment the Honor Roll and recognize students whose motivation and good study habits result in A's and B's in core courses (with no elective classes below a "C").

*The Honor Roll and Principal's List have no Grade Point Average (GPA) minimum; however, a grade lower than C in any elective class, or in classes not averaged into the GPA calculation, make the candidate ineligible for both the Honor Roll and Principal's List.*

## **DEPARTMENT OF MATHEMATICS**

### **Algebra I**

#### **Core 9<sup>th</sup> Grade: Three Trimesters**

This course provides students with a solid foundation in algebra, geometry, and basic trigonometry. A balance of theory and its applications, seen in numerous examples and solutions, enables students to read and write mathematics with understanding and precision.

### **Algebra II**

#### **Core 9<sup>th</sup> and 10<sup>th</sup> Grade: Three Trimesters**

This course meets and exceeds the standards set by NY, NJ and the National Council of Teachers of Mathematics, and builds on the foundation set in Algebra I. Additional topics include, but are not limited to, the study of quadratics, algebraic fractions, trigonometry, probability theory and statistics.

### **Analysis I**

#### **Core 9<sup>th</sup> - 11<sup>th</sup> Grade: Three Trimesters**

This is a full-year course designed to provide a strong foundation in pre-calculus concepts. The three areas of concentration in this course are advanced algebraic manipulation; plane geometry including transformational geometry; and the extensive study of advanced functions.

## **Analysis II**

**Core 10<sup>th</sup> - 12<sup>th</sup> Grade: Three Trimesters**

***Prerequisite: Analysis I***

This is a full year course, which builds upon the foundations for advanced mathematics provided by the Analysis I course. This course offers a rigorous treatment of logarithmic functions, trigonometric functions and their graphs, complex number theory, probability theory and statistics theory. The course also provides the student with a combined treatment of functions and transformational geometry.

## **AP Calculus AB**

**Elective: Three Trimesters**

***Prerequisite: Analysis II (Placement assignment, teacher recommendation)***

The Advanced Placement Calculus AB course covers the equivalent amount of material in a one semester college calculus course. The topics covered include the limits of functions, differential calculus, integrals, and differential equations. Students enrolled must take the AP calculus AB Exam in May.

## **AP Calculus BC**

**Elective: Three Trimesters**

***Prerequisite: Analysis II (Placement assignment, teacher recommendation)***

The Advanced Placement Calculus BC course covers the equivalent amount of material in a two semester college calculus course. The topics covered include limits of functions, differential calculus, integrals, integration by parts, differential equations, infinite series, and parametric functions. Students enrolled must take the AP Calculus BC Exam in May.

## **AP Plus Monovariate Calculus**

**Elective: Three Trimesters**

***Prerequisite: AP Calculus AB (Placement assignment, teacher recommendation)***

This course continues with the study of calculus at the college level. It is a continuation of the AP Calculus AB course, which is the prerequisite for this course. The topics covered in this course include integration by parts, infinite series, parametric functions, and arc length. The student is not required to take an AP Calculus Exam in May.

## **AP Statistics**

**Elective: Three Trimesters**

***Prerequisite: Analysis I (Placement assignment, teacher recommendation)***

The Statistics Course covers probability, analysis, inference, and the methods of how to devise a statistical study. Basically, the students become proficient in collecting, analyzing, and drawing inferences from data. In addition, students also become proficient in using a TI-83 graphing calculator for statistical studies. Students are expected to sit for the AP Statistics Exam in May.

### **Applied Advanced Mathematics**

#### **Elective: Three Trimesters**

The goal of this full year course is to introduce the student to many ideas and methods in advanced statistics including population growth and probability, and to broaden the student's mathematical foundation with exposure to interesting but non-routine math topics such as spiral growth in nature, including Fibonacci Sequences and symmetry.

### **Calculus**

#### **Elective: Three Trimesters**

#### ***Prerequisite: Analysis II***

The calculus course covers many topics found in a traditional college calculus course at an introductory level. The topics covered include limits of functions, differential calculus, and integrals with applications to business, science, and engineering.

### **Conquering the Math HSPA**

#### **Elective: One Trimester**

This course is designed to be a one-trimester elective to help students prepare for the math portion of the 11<sup>th</sup> Grade HSPA exam. Emphasis is placed on doing practice problems familiar with the format of the text, reviewing earlier subjects and learning new material.

### **Data Forensics**

#### **Elective: One Trimester**

This elective is a hands-on course in which students learn how to accurately display data for precise, effective, and quick analysis. Elements such as color, design layout, and other dramatic effects are studied. Many examples are discussed, including maps, diagrams, courtroom exhibits, and timetables, which were actually used in making important decisions. Students learn to recognize misleading and inaccurate information used in visual displays.

### **Geometry**

#### **Elective: One Trimester**

Important concepts and methods in geometry are presented in this two-trimester course. The student learns basic coordinate geometry, rays and angles, triangle congruence, perpendicular and parallel lines, quadrilaterals, similar polygons, the Pythagorean Theorem, and special right triangles. The material taught in this course prepares the student for the mathematics portions of the SAT I and HSPA exams.

### **Math League**

#### **Elective: One Trimester**

This course teaches the student how to solve advanced pre-calculus mathematic problems with much greater speed, accuracy, and efficiency. A strong emphasis is

placed upon problem solving by the student, especially in pairs or small cooperative groups. The student solves many advanced problems drawn from all topics and subtopics which are included on Math League Exams.

### **Origami and Math**

#### **Elective: One Trimester**

Math concepts are illustrated using origami. Students construct three dimensional origami art using multi-colored paper. Mathematics connections involve studies of the angles in triangles, pentagons, hexagons and other symmetrical figures in two and three dimensions.

### **Precalculus using the Geometer's Sketchpad**

#### **Elective: One Trimester**

#### ***Prerequisite: Algebra II***

This course explores various topics in pre-calculus using a powerful computer graphics software program called the Geometer's Sketchpad. The student is required to have completed Algebra II in order to be eligible to enroll in this course. The student completes a series of one period projects, each illuminating a different topic in precalculus such as solving advanced equations, sequences and series, vectors, etc. A test is given on the subject matter.

### **Problems from NUMB3RS**

#### **Elective: One Trimester**

This course is based primarily on lesson plans published by Texas Instrument on the website of the NUMB3RS television show. Students are introduced to a broad selection of mathematical topics and applications. None are pursued in great depth, but the broad exposure is the intent.

### **Problem-Solving and Programming with the TI-83 Calculator**

#### **Elective: One Trimester**

This elective option allows students to explore advanced graphics. This course meets and exceeds the standards set by NY, NJ, and the National Council of Teachers of Mathematics, and builds on the foundation set in Algebra I. Additional topics include, but are not limited to, the study of quadratics, algebraic fractions, trigonometry, probability theory and statistics.

### **PSAT/SAT Math Review**

#### **Required Elective 10<sup>th</sup> Grade: One Trimester or Cycle**

This course is offered to improve performance on the SAT aptitude and achievement examinations in mathematics. The focus is on the changes in the SAT including the addition of advanced algebraic concepts. The coursework involves work in numbers and operations, algebra, geometry/measurement and statistics/probability.

### **Solving SAT and Other Unusual Math Problems**

#### **Elective: One Trimester**

This course focuses on preparing students for the mathematics section of the SAT. Students learn how to solve geometry problems and other miscellaneous types of math problems such as those involving approximations, properties of integers and probability, all of which are covered on the SAT.

### **Statistics**

#### **Elective: Three Trimesters**

##### ***Prerequisite: Analysis I***

The Statistics Course covers probability, analysis, and inference. Basically, the students become proficient in collecting, analyzing, and drawing inferences from data. In addition, students learn basic use of a TI-83 graphing calculator for statistical studies.

## **DEPARTMENT OF ENGLISH**

### **American Literature I**

#### **Core 9<sup>th</sup> Grade: Three Trimesters**

American Literature I is a literary exploration of the theme, “The American Identity.” Course works are studied in conjunction with the American History I curriculum within their historical context with attention to their literary components. While the short story and novel are the primary resources, plays, essays and poems are covered as well. These texts and their use are designed to develop students’ listening, speaking, reading, critical thinking, writing and research skills.

### **American Literature II**

#### **Core 10<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: American Literature I***

This is the second of a two-year study of American Literature that explores the theme, “The American Character in Conflict.” The main goal of the course is to develop students’ understanding of the influences upon and varied expressions of the American character in the changing currents of the 20th century through their study of literature. Works include short stories, novels, plays, essays and poems designed to help students develop their listening, speaking, reading, thinking, writing and research skills.

### **World Literature I**

#### **Core 11<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: American Literature II***

This course is the required course for eleventh graders. It is designed to give students an understanding of the central literary pieces from the Ancient World through the Renaissance. Particular attention is paid to the social, economic, cultural and political forces that contributed to the creation of those texts. Although the emphasis

is on Western Literature, students also are exposed to selections and samples of literature from around the globe. Students continue to develop their critical reading skills and hone their writing skills with particular attention to formal essay writing and academic writing.

### **World Literature II**

#### **Core 12<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: World Literature I***

This required course for twelfth graders is a comprehensive, critical analysis of the major literary movements from the High Renaissance to the modern age. Connecting literary works to their historical contexts from a global perspective, students develop interpretations of literature in light of our contemporary society, as well as archetypal themes that transcend time. Critical theories are examined and students are expected to write an extensive humanities thesis based on the theories learned.

### **AP English Literature**

#### **Elective 12<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: World Literature I (Placement assignment, teacher recommendation)***

AP English is a college-level course designed to prepare students for writing in college as well as taking the AP English Literature Exam in May. The reading selections and writing assignments are rich and challenging; the pace of the class is intense. Students concentrate on analyzing literature by doing “close readings” and on developing other skills necessary for the exam. In addition, there are projects and presentations that involve writing.

### **Advanced News Writing I, II, III**

#### **Elective: One Trimester**

##### ***Prerequisite: News Writing I***

The course focuses on the development and sophistication of journalistic technique. Students learn the requirements and the proper organization of feature stories, sports stories, and editorials through detailed exercises that are followed by reporter’s assignments. Students are expected to produce material suitable for publication in the school newspaper.

### **African-American Literature**

#### **Elective: One Trimester**

This course examines the African-American literary tradition from a variety of perspectives and in dynamic ways. The class begins with a study of slave narratives of the 18<sup>th</sup> and 19<sup>th</sup> centuries and then move to post-slavery writing with special emphasis on Booker T. Washington. Students analyze the works of Harlem Renaissance writers such as Zora Neale Hurston, W.E.B. Du Bois and Langston

Hughes. Later works from writers such as Richard Wright, Ralph Ellison, Alice Walker, and Toni Morrison are also analyzed. The course consists of close reading, discussion and project preparation.

### **Altered States**

#### **Elective: One Trimester**

In its most basic definition, science fiction writing deals with the question, “What if?” Through reading short stories and novels and watching films of this genre, students begin to consider a variety of possibilities – looking at the expected and the unexpected, predicting outcomes, and anticipating changes to the world and society with which they are familiar. Students discuss reality, perception, cause and effect, and chaos theory in relation to readings and films.

### **The Art of Essay Writing**

#### **Elective: One Trimester**

This course, revolving around the elements of academic writing, allows students to perceive writing as a process and help them gain mastery over the steps of this process. The Art of Essay Writing provides students with the knowledge and skills they need to successfully compose high school written assignments, as they learn to focus, organize, and develop ideas. Special attention is placed on the pre-writing phase, and, more specifically, on the importance of brainstorming, organizing ideas, and writing well-formulated theses and coherent outlines. Students also learn how to conduct research, include citations, and apply the MLA style to their research papers. Ultimately, this course is designed to prepare students to write college-level essays and provide them with a strong base for technical and business writing.

### **Contemporary Epic Fantasy Literature I: A Game of Thrones**

#### **Elective: Three Trimesters**

This course is the first of a full-year elective that focuses on George R.R. Martin’s great contemporary epic fantasy series, *A Song of Ice and Fire*, which is re-defining the genre of fantasy literature. Students read the first volume of the series, *A Game of Thrones*, as well as additional source materials and stories, and discuss the work in class. Exegesis of the text includes examination of plot, theme, and character development, and the ways in which the novel embodies conventional aspects of the genre of high, or epic fantasy, as well as casts itself into a new, modern-day sub-genre, the political fantasy. Students analyze the novel from differing critical perspectives, as well as discuss how *A Song of Ice and Fire* exemplifies the critical debate over highbrow versus popular art. They examine the series as a reaction to and criticism of *The Lord of the Rings* and engage in several strategy and war games based upon the novels. **BE WARNED:** The class is reading-intensive, with each volume of the series at 800+ pages, but the novels are fast-paced, rewarding, and exciting. They are must-reads for any true fan of Tolkien or fantasy literature.

### **Creative Expression**

#### **Elective: One Trimester**

This creative writing course focuses on the development of the student's individual voice within the context of writing fiction and artistic expression. Students study various fiction writing techniques, spend class time brainstorming, and work on creative design projects. Students write their own pieces, share them with classmates, revise their work and conference with the teacher.

### **Creative Writing - Poetry**

#### **Elective: One Trimester**

The focus of this elective is the development of the student's individual voice within the context of poetry. Students study various creative writing techniques including the effective use of figurative language to include metaphor, personification, symbolism and imagery, and the effective use of musical devices. Revision, portfolio development, and publishing are emphasized.

### **English Tutoring**

#### **Elective: One Trimester**

This course is a non-credit elective course designed to provide students with additional assistance and skill-building for their regular English courses.

### **Fantasy Literature I**

#### **Elective: One Trimester**

This course focuses on the genre of fantasy literature. Students learn the characteristics of the genre and read at least two fantasy novels and several short stories. For a class project, students design a fantasy world, complete with a map, gazetteer, mythology, history, and then write short stories set in this milieu. Students spend class time discussing and responding to literature, working on projects, writing stories, sharing their drafts with classmates and conferencing with the teacher on an individual basis.

### **Fantasy Literature II**

#### **Elective: One Trimester**

In this class, students read and write in the genre of fantasy literature. Focus is on the early practitioners of fantasy lit, including Robert E. Howard, H.P. Lovecraft, and Fritz Leiber. In addition, students read short examples of the more obscure sub-genres of fantasy, such as comic fantasy and dark fantasy. Students are expected to complete the assigned readings, write original short stories, and complete a critical essay about a fantasy novel of their choice.

### **Fiction Writing I**

#### **Elective: One Trimester**

Fiction Writing I focuses on the development of the student's individual voice within the context of fiction. Students study various fiction writing techniques including creation of character, plot and setting; the use of point of view; effective use of

dialogue; and use of descriptive imagery, metaphor and symbolism. Students read samples of stories from published writers as models, but the majority of the class time is devoted to writing, conferencing and revising original stories for publication.

### **Great Literary Works**

#### **Elective: One to Three Trimesters**

Students read literary works and plays from various great authors and countries. They also delve and elaborate on Existential Philosophy, the Theory of the Absurd, and the use of Biblical metaphors in Literature. The course is given over three trimesters; a student may join any or all of the trimesters. Some of the works covered are by Roald Dahl, Miguel de Unamuno, Albert Camus, Samuel Beckett, and Dostoevsky.

### **Greek Drama**

#### **Elective: One Trimester**

This course explores the beginnings of drama as we in the 21<sup>st</sup> century understand it. Students study classical Greek culture and philosophy as they read the works of Sophocles, Euripides, and Aristophanes. Close reading, literary analysis and the development of projects form the core of the course.

### **Literary Circle – Short Stuff!**

#### **Elective: One Trimester**

Like to read but get lost in loooooong books? This elective features very short works of fiction and non-fiction that make for great group discussions. Students read short stories, poetry, articles from *The New Yorker* and *The Village Voice*, vignettes – all recently published works, many written by young authors. Students are assigned writings for homework, come to class ready to share personal perspectives, and chronicle these ideas in a journal for the final 10 minutes of each class. Occasionally, a one-page response paper is assigned. Final project involves student's own assessment of their journal and a 3-5 page paper identifying common themes carried through journal entries.

### **The Lord of the Rings I: The Fellowship of the Ring**

#### **Elective: One Trimester**

For the first trimester of this year-long elective, the class immerses itself in the world of J.R.R. Tolkien. Students read and discuss the first part of Tolkien's Lord of the Rings trilogy, *The Fellowship of the Ring*, as well as excerpts from *The Simarillion* and *The Hobbit*. Besides the usual assortment of tests, papers and quizzes, students complete an independently-conceived project. Students also view the filmed adaptation and compare and contrast it with the novel. Be prepared to "geek out" on Tolkien with strategy games, creative projects, trivia, and board games!

### **News Writing I**

#### **Elective: One Trimester**

This course teaches students the basic techniques of writing for publication. The emphasis is on writing as the direct result of careful planning, interviewing, in-depth investigation, competent reporting and objective editorial analysis. Attention is also given to the issues of journalistic responsibility, ethics, libel, copyright law, and restrictions on the student press.

### **PSAT/SAT Verbal Review**

#### **Elective: One Trimester**

This elective focuses on the development of general test-taking skills and strategies to intensify cognitive skills. Students become familiar with the new PSAT and SAT format and engage in practice drills that will maximize test performance. Emphasis is placed on understanding how various test-taking strategies can improve a performance. In addition to class participation and homework drills, students are required to complete several practice tests from the verbal section of the SAT.

### **Science Fiction Literature**

#### **Elective: One Trimester**

Literature In this course, students read short stories and novels that express a variety of science fiction concepts. Through readings, discussions, and watching films of this genre, students consider and analyze a variety of possibilities. (Note: This is a separate course from Altered States: Science Fiction. Students who have taken that course may take this one as well.)

### **Spotlight on Shakespeare: Henry V**

#### **Elective: One Trimester**

This course is an in-depth study of William Shakespeare's play, *The Life of Henry V*. Students learn about the elements of drama and the history of the Elizabethan Theater. Students use this knowledge as they read the play, view different film versions of the play, analyze characters, plot, and themes, and discover Shakespearean influences on modern culture.

### **Spotlight on Shakespeare – The Taming of the Shrew**

#### **Elective: One Trimester**

This course is an in-depth study of William Shakespeare's play *The Taming of the Shrew*. Students read the play, view several different film interpretations, analyze character, plot, and themes, and discover Shakespearean influences in modern culture.

### **The Teenage Novel**

#### **Elective: One Trimester**

The goal of this course is to foster a lifetime reading habit. The works studied are high interest, contemporary novels dealing with current teenage issues and concerns. The course focuses on the reading and critical analysis of these novels through shared discussion in student facilitated reading-response groups.

### **William Butler Yeats**

#### **Elective: One Trimester**

William Butler Yeats, the poet beloved by the Irish, by romantics, by those with an ear for music and a heart for feeling, is the center of this course. Students participate in an in-depth study of the man as well as his poetry and short plays. Students analyze Yeats' role in the Irish Renaissance, his romantic "myth" of Maude Gonne, and his visionary ideas about history which reflect the soul of the twentieth century. The course combines close reading, literary analysis and interpretation, and research culminating in a project on one aspect of Yeats' work.

### **Women's Studies: Senior Seminar**

#### **Elective: One Trimester**

***Requirement: Seniors only or juniors by permission of instructor***

The course takes an interdisciplinary approach: that is, students read literature by women, writings about women, and the history that creates the two. Students read excerpts from many sources to help develop their awareness of the historical, political and cultural influences on women's lives and their creations. Authors studied include Sappho, Margery Kempe, Mary Wollstonecraft, Charlotte Perkins Gilman, Kate Chopin, Margaret Sanger, Virginia Woolf, and Simone de Beauvoir.

## **DEPARTMENT OF SOCIAL STUDIES**

### **United States History I**

#### **Core 9<sup>th</sup> Grade: Three Trimesters**

This required course for ninth graders defines and explores the theme *The American Experience*. Course work focuses on the role of the individual in creating and maintaining a democratic society and the factors that have shaped, and continue to shape, our national identity. Current events are highlighted. Within a project-based curriculum, students enhance their use of purposeful questioning and critical thinking through a variety of active learning experiences.

### **United States History II**

#### **Core 10<sup>th</sup> Grade: Three Trimesters**

***Prerequisite: United States History I***

This is the required course for tenth graders. Students continue to explore the theme *The American Experience*; that is, the factors that have shaped and continue to shape our national identity, *with an emphasis on 20th century events*. This course encourages students to apply their knowledge of U.S. history to contemporary topics and to expand their awareness and understanding of the domestic and international issues facing the United States today.

## **World Studies**

### **Core 11<sup>th</sup> Grade: Three Trimesters**

#### ***Prerequisite: United States History II***

This junior year required core course provides students with a broad and thorough understanding of world history from the late Middle Ages to modern times. Students develop a history-oriented vocabulary, a solid knowledge of geography, a basic understanding of the political and economic systems and world religions, as well as a strong sense of global cultures and history. Students are also able to make connections and draw comparisons across various cultures. The students continue to develop skills needed to be historical thinkers, who can examine different points of view, handle and interpret documents, and synthesize information effectively in papers, projects, and presentations.

## **AP Macro-economics**

### **Elective 12<sup>th</sup> Grade: Three Trimesters**

#### ***Prerequisite: Placement assignment, teacher recommendation***

Macroeconomics deals with the real world of the domestic and global economy. Advanced Placement (AP) Macro-economics allows students to take college-level economics and to earn college credit or placement while still in high school. The AP program offers two separate examinations in economics: one in microeconomics and one in macroeconomics. Each examination is equivalent to at least one-semester of college-level preparation in economics. Students take either or both examinations in May for a single fee. A separate grade is reported for each exam.

## **AP US History**

### **Elective: Three Trimesters**

#### ***Prerequisite: World Studies (Placement assignment, teacher recommendation)***

This course is designed to give students a thorough understanding of United States history, with emphasis on interpretation and analysis of the material by contemporary and modern historians. Through the use of primary and secondary sources, the student acquires a basic understanding of the factual material and develops the analytical and interpretive skills to deal with the subject in greater depth. At the end of the course, students take the AP History Exam administered by the College Board.

## **Cinema Depiction of the Western Cowboy**

### **Elective: One Trimester**

*Red River, Shoot-out at the OK Corral, Rio Bravo, The Magnificent Seven, The Wild Bunch,* are some of the movies that students view to answer the following questions: What makes a real cowboy? What are his values? How accurate are these film depictions, or is it all a myth?

### **Classical Philosophy**

#### **Elective: One Trimester**

Classical Philosophy introduces students to several of the essential philosophical questions raised by the Greek and Roman philosophers of ancient times. Students read some of their writing to study and interpret the originality of the vocabulary they have passed on to us and that we use to conduct the many different activities of our modern lives. Topics covered include natural philosophy, metaphysics, epistemology, the soul, free will, moral philosophy, political philosophy, and religious belief.

### **The Cold War**

#### **Elective: One Trimester**

In this course, students study the history of the Cold War, from the Bolshevik Revolution in Russia to the end of the war in the early 1990's. The course focuses not only on history, but also political science, as students examine how this war was waged by both sides, and the consequences of the war for the United States, the Soviet Union, and the rest of the world. The Cold War's impact on the lives of citizens in the United States and the Soviet Union is explored. Elements of popular culture from this era is studied in order to understand these effects.

### **Comparative Religions**

#### **Elective: One Trimester**

Have you ever wondered about another student's religion? What they believed in? In this class, students explore all of the world's major religions. They discuss their histories and belief systems. Students explore the similarities and differences between Buddhism, Hinduism, Judaism, Catholicism, and Islam.

### **Contemporary Issues in American Society**

#### **Elective: One Trimester**

The study of social problems is the study of efforts to define and change aspects of society deemed unacceptable by particular social groups. In this course, students explore a wide variety of social problems currently confronting American society, including terrorism, abortion, discrimination, violence, sex-related problems, and alcohol. Class discussion is supplemented with videos and songs. The purpose of this course is to enhance our awareness of these complex issues and to provide a setting where we can discuss possible solutions to these challenging problems.

### **Cultures in Crisis**

#### **Elective 12<sup>th</sup> Grade: Three Trimesters**

*Prerequisite: World Studies*

Contemporary cultures face unique political, social and economic challenges as they struggle to find their place in a modern world. A variety of regions, cultures and conflicts are explored, with an emphasis on the modern American Indian experience,

post-apartheid South Africa, and the Israeli/Palestinian conflict. Students also have the benefit of establishing connections with high school-age students in each of these cultures to enhance their understanding of the topics under study.

### **Political Processes in Presidential Elections**

#### **Elective: One Trimester**

Every four years citizens of our country make one of the biggest political decisions they can make: who should be the next president. The President of the United States is the only political representative chosen by the *entire* country. As such, he is a symbol of the unity – and at times divisions – among us. This elective gives students an inside look at how a president is chosen: how campaigns are won and lost, what’s important to know about voters and regions in America, and why they’re kissing all those babies. This class provides a basic foundation of political science. In the end, the student has an in-depth look at the strange, sometimes seedy, but always fascinating thing that is American political life.

### **Exploring America’s National Parks**

#### **Elective: One Trimester**

Students examine the history, the geology, the struggle for preservation, the scenery, the natural phenomena, and the diversity of wildlife in America's national parks. Students gain an appreciation of the need for environmental preservation and conservation through an in-depth study of various parks within the United States.

### **Global Diversity in the 21<sup>st</sup> Century**

#### **Elective: One Trimester**

This course aims to encourage students to think about diversity in all its applications. When most people think of diversity, they focus on race. This class challenges students to consider people who are different than they are - - perhaps by race, but also by religion, economic status, social location, political beliefs, physical and mental handicaps, and gender orientation. Students examine past and present societies less tolerant of diversity. They also explore how they, their families, their schools, their leaders, and their community respond to diversity on an individual as well as a group basis.

### **History Day**

#### **Elective: One Trimester**

New Jersey National History Day is a statewide and national competition for students with a passion for history. Students submit research in five categories: historical paper, exhibit, documentary, performance and website. This elective presents the students with an opportunity to develop and improve their skills in research, primary source analysis, writing annotated bibliographies, portraying a thesis through visual representation and successful communication skills during their judging interviews. Students are encouraged to move outside the classroom and into the community to investigate history in order to formulate their own questions and answers to historical events.

Students compete at the state competition and then compete for the top two rankings in each category. The top two New Jersey winners in each category then compete at the National Competitions. Students have the opportunity to win academic scholarships for their History Day projects.

### **History of the Caribbean (Land of the Pirates)**

#### **Elective: One Trimester**

This course focuses on the different islands of the Caribbean, such as Haiti, Jamaica, Dominican Republic, Puerto Rico, Bahamas, etc. Students spend time learning the culture, language, economy, music, climate/weather, population, rivers/streams, and latitude/longitude of each country. The student learns the history of the Caribbean as a whole.

### **History of Latin America I**

#### **Elective: One Trimester**

This course covers the geography and history of the main Native American cultural groups whose legacy has been significant to Latin American culture. Special attention is given to the Maya/Aztec legacy in Mexico and Central America and the Inca legacy in Peru and South America. Other Native American groups are studied as well. This course focuses on understanding historical events, religious beliefs, political, economic, class and gender structures and culture within and without the context of each group.

### **Holocaust and Genocide Studies**

#### **Elective: One Trimester**

In *Holocaust and Genocide Studies* students consider one of the greatest tragedies of the 20<sup>th</sup> century in order to better understand how it occurred and how it can be prevented in the future. The main focus of the course is the persecution and mass murder of European Jews and various other groups between the years 1933-45. Students learn that the Holocaust was not an accident, but occurred when choices were made which allowed, legalized, and institutionalized hate, prejudice, and murder. Students study the rise of Nazism, analyze its appeal, and evaluate the responses of perpetrators, victims, bystanders, and rescuers. Finally, students compare and contrast the Holocaust with other genocides that have taken place in the past or are presently occurring.

### **Humanities Development Through the Ages**

#### **Elective: One Trimester**

In this course, students study the development of literature, art, architecture and culture from the time of the Pharaohs to the Renaissance. Students delve into Pharaonic, Greek, Islamic, and Byzantine art and culture as well as that of the Italian, French and English Renaissance.

### **Political Processes in Presidential Elections**

#### **Elective: One Trimester**

Every four years citizens of our country make one of the biggest political decisions they can make: who should be the next president. The President of the United States is the only political representative chosen by the *entire* country. As such, he is a symbol of the unity – and at times divisions – among us. This elective gives students an inside look at how a president is chosen: how campaigns are won and lost, what’s important to know about voters and regions in America, and why they’re kissing all those babies. This class provides a basic foundation of political science. In the end, the student has an in-depth look at the strange, sometimes seedy, but always fascinating thing that is American political life.

### **Political Science and Government**

#### **Elective 12<sup>th</sup> Grade: Three Trimesters**

*Prerequisite: World Studies*

This class is designed as an introduction to the field of political science. While the class focuses on American government, students take a comparative approach that takes into account the various forms of government that exist in other countries. The class consists of public policy debates, simulations, and both group and individual work. Additional material includes the art of the campaign, issues of citizenship, and maybe even some political philosophy along the way. The year ends with a serious focus on foreign policy and international relations.

### **Politics and the American Presidency**

#### **Elective: One Trimester**

This elective course follows a seminar format. Roundtable discussions, research / project presentations (both group and individual), together with tests, are the basis for assessment in the course. Participation in discussions and debates is essential, as is an interest in politics. Students must have respect for diverse political opinions and points of view. This course includes video presentations and the use of technology. Students are able to describe, explain and analyze the relationship between American politics and the election, and the duties and responsibilities of the President of the United States to the people.

### **The Prince of Philosophy**

#### **Elective: One Trimester**

In Florence, during the Renaissance, a man wrote a book, entitled simply *The Prince*. This book would come to revolutionize the way that we saw the world, ultimately ushering in the modern era. Spend a semester looking at the work of Machiavelli, and a few of his contemporaries as we investigate the meaning and significance of the moral revolution that helped create who we are today.

### **Research Seminar: America's Entry into the War of 1898**

#### **Elective: One Trimester**

In this elective, students investigate the reasons behind America's entry into the Spanish-American war. This class takes the format of a research seminar, resulting in a final paper of publishable quality.

### **The Sixties (1960's)**

#### **Elective: One Trimester**

Students in this elective history course examine the tremendous social, political and cultural changes that took place in America and the World during the 1960's. Students particularly focus on certain clearly-defined themes that dramatically shaped life during the 1960's and beyond.

### **Sociology**

#### **Elective 12<sup>th</sup> Grade: Three Trimesters**

*Prerequisite: World Studies*

Sociology is the scientific study of the patterns and processes of human social relations, of how groups behave and interact with one another, and how involvement in groups goes on to affect individual behavior. In this course, students are introduced to some of the basic sociological methods and theoretical perspectives used to study social behavior. Students examine some of the major subfields of sociology, including socialization, criminology, urbanization, and various social institutions, such as the family, the economy, government, and religion. The purpose of this course is to broaden our understanding of the social forces that govern our existence. This course is offered as a trial "AP course" with recognition from the American Sociological Association.

### **Socrates**

#### **Elective: One Trimester**

Who was Socrates? What do we know about his life? What do we know about his philosophy? Did he have any kind of philosophy? Why did he get entangled in explicit confrontation with the life of the political community of Athens? Was he a wise man or a clown? Is the Socratic method Socrates' method? Does he have any relevance in our days? What is more important knowledge or wealth or power? The course attempts to answer these questions and more.

### **United Nations**

#### **Elective: One Trimester**

This elective course offers students interested in international relations, war/peace, the environment, human rights and basic human and economic freedoms, the opportunity to become members of the *Academies @ Englewood Model United Nations Team*. Students learn about the United Nations structure, organization, purpose and impact on a changing world. The course consists of learning about the causes, conditions and effects of warfare, poverty, oppression, illiteracy and the denial of human rights within nations and within regions of the world, and the ability and

willingness of the agencies of the United Nations to successfully respond to those conditions. Finding solutions to those problems are the responsibility of individual students or teams.

### **Cinema Depiction of the Western Cowboy**

#### **Elective: One Trimester**

*Red River, Shoot-out at the OK Corral, Rio Bravo, The Magnificent Seven, The Wild Bunch*, are some of the movies that students view to answer the following questions: What makes a real cowboy? What are his values? How accurate are these film depictions, or is it all a myth?

## **DEPARTMENT OF LAW**

### **Introduction to Law: The Importance of Law in Everyday Life**

#### **Academy Core 9<sup>th</sup> Grade: Three Trimesters**

This course is required for Law and Public Safety students and is open to others by permission of the instructor. Students gain a comprehensive understanding of our system of law and advocacy, and the use of law as a tool for addressing social issues and resolving disputes.

### **Criminal Law**

#### **Academy Core 10<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Introduction to Law***

In this course, students explore the nature of crime and how it is defined along with criminal procedure. This includes investigation, accusation, trial, verdict and sentencing for a crime. In addition, students examine the issues of fairness, security and rights in a free society. Students research and create projects which analyze current debates about criminal law in modern American society.

### **Constitutional Law**

#### **Academy Core 11<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Criminal Justice***

This course begins with an overview of the Constitution and how the American legal system works. Students look at the work of the Supreme Court by investigating why the Court takes certain cases and not others. While a wide range of cases are examined, the course focuses on cases of particular interest to high school students, including censorship of high school papers, drug use, drug testing, desegregation, religious prayer in school, hate speech, privacy and responsibility, poverty and inequality in school financing, and freedom of speech. Students analyze Court decisions, interpreting the words used and weighing the merits of the majority and dissenting opinions. Finally, students learn about the impact of the Court's cases and how the impact has changed over time.

### **Issues in Law and Public Policy**

#### **Academy Core 12<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Constitutional Law***

In this full year course, students examine contemporary social, economic and cultural issues and the development of public policies to address them. Students analyze the roles of the legal system and public and private actors in development and implementation of policy initiatives. Students research key issues and analyze the effectiveness of existing policies and proposed policy initiatives.

### **Business Law**

#### **Elective: One Trimester**

In this class, students examine and explore the basic issues involved in American business law. Topics include a study of the requirements for creating a legally binding contract, as well as some common errors to be avoided. Students explore the issues involved in franchising, in addition to a study of sole proprietorships, partnerships and corporations. Students are engaged in active learning experiences which focus on the development of critical thinking and communication skills.

### **Entertainment, Media and the Law**

#### **Elective: One Trimester**

In this course, students examine and explore the basic legal issues involved in entertainment and the media. Students specifically analyze the role of the Constitution, Congress and the courts within the context of entertainment and the media. Students are engaged in active learning experiences, focusing particularly upon the development of critical-thinking and communication skills.

## **DEPARTMENT OF TECHNOLOGY**

### **Introduction to Information Systems**

#### **Academy Core 9<sup>th</sup> Grade: Three Trimesters**

In this course, students learn the PC from the inside out. *Introduction to Information Systems* covers the inner construction of PC's, operating systems and printers. Preventative maintenance and trouble shooting strategies are discussed for both hardware and software. At the end of the course, students are qualified for A+ certification and are able to build their own PC's.

### **Advanced Networked Systems**

#### **Academy Core 10<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Introduction to Information Systems***

Students continue to build on the skills and knowledge obtained in *Introduction to Networked Systems*. Using Cisco equipment and technology, they learn about routing, network address, and setting up routers and gateways.

### **Programming in Java**

#### **Academy Core 11<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Advanced Network Systems***

This is an introduction to procedural and object-oriented programming using the Java language. Students complete a variety of projects in which they produce functioning applications. This course introduces concepts which are revisited in AP Computer Science.

### **Microsoft Certified Desktop Support Technician**

#### **Academy Core 12<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Programming in Java***

Today's business environment depends heavily on the desktop PC and its connected environment. Students in this course learn to effectively troubleshoot both desktop and network problems. Completion of this course prepares the student for the MCDST Certification. Getting certified requires taking two tests. These tests are not given at A@E.

### **Introduction to Information Technology**

#### **Core 9<sup>th</sup> Grade: Three Trimesters or Cycle**

Introduction to Information Technology is a year-long course and is a requirement for all freshmen. In the beginning of the course, students are involved in projects focused on students' presentation skills. Microsoft Word, Excel, and PowerPoint are used to accomplish this. This is a good introduction to Web Design since the Internet is used mostly for presentation. Students are involved in various web design projects ranging from business web sites to creating web sites for historical figures, biographies, public service announcements, and self-promotion. Students use HTML coding to create the sites in the beginning to get a firm understanding of the basics and then move on to Macromedia Dream weaver, which is Web editing software. Students learn how to use Java Script and Flash to create more advanced web sites.

### **Advanced Web Design**

#### **Elective: One Trimester**

##### ***Prerequisite: Introduction to Information Technology***

This course involves the design and building of advanced web sites. It includes the use of Java Script, Flash, PHP, and the building/administration of a web host. Students work in groups on various aspects of the design and creation of web sites.

### **Amateur Radio I – Technician Class**

#### **Elective: One Trimester**

This course covers electronics and radio theory, FCC rules and regulations regarding Amateur Radio service and safety concerns including exposure to radio frequency radiation. Completion of this course and exam results in the student receiving the Technician Class (Ham) Radio license.

### **Amateur Radio II – General Class**

**Elective: One Trimester**

***Prerequisite: Technician Class License***

Students learn to communicate internationally using short wave radio. They use voice, computer and Morse Code to meet people around the world. This elective builds on the Technician Class License by adding more technical information, FCC rules and regulations, and the International Morse Code at five words per minute. The elective culminates with the FCC General Class Amateur radio license testing.

### **Digital Design I**

**Elective: One Trimester**

This course focuses on the development of the student's graphic design skills through the use of technology. Students learn how to use Adobe Photoshop, Adobe Illustrator, and Adobe In-Design to create products such as book covers, CD jackets, magazine layouts and posters. Students spend class time learning graphic design applications, viewing samples of good design, brainstorming ideas for good design, and designing and sharing designs with the class for critique.

### **Digital Design II**

**Elective: One Trimester**

***Prerequisite: Digital Design I***

Learn more advanced features of Photoshop – how to use masks and channels, the painting and editing tools, the pen and shapes tools and special effects. Students create advanced projects using Adobe Illustrator for drawing on the computer and Adobe In-Design for page layout.

### **Digital Photography**

**Elective: One Trimester**

The focus of this course is on-line information about digital photography by Agfa, Kodak and Fuji. Many of the images and information used are based on courses developed by the aforementioned companies. Learning is self-directed and competency based. Fieldwork is required. Student work is edited and used as a teaching tool.

### **Introduction to Visual Basic**

**Elective: One Trimester**

Visual Basic is the modern version of the Basic programming language designed for the Window's Graphical User Interface (GUI.) Students learn to program the Visual Basic Development Environment and fundamentals of Visual Basic. Students are required to write useful programs.

### **Intermediate Visual Basic**

#### **Elective: One Trimester**

#### ***Prerequisite: Introduction to Visual Basic***

This course builds on the knowledge already attained about the fundamentals of Visual Basic. This course continues the application of that knowledge introducing arrays, file manipulation, and object-oriented programming.

### **Introduction to Video Production**

#### **Elective: One Trimester**

In this course, students learn the ins and outs of capturing events with video. Students use digital video cameras and non-linear editing (NLE) software to document their years at the Academies @ Englewood. Students learn the basics of handling a video camera, basic scene composition, and editing captured video into complete presentations.

### **Java Programming**

#### **Elective: One Trimester**

Java is an object oriented programming language that is portable between devices and computer platforms. It is already used in web browsers, palm and pocket PC's, and in cell phones. This elective course, for students who are not part of the IS Academy, introduces the Java language and object-oriented programming.

### **Linux I**

#### **Elective: One Trimester**

This elective introduces students to operating systems using Linux as a model. Students learn how to install Linux and run a dual boot machine with application, and use and run Linux as an operating system.

### **Linux II**

#### **Elective: One Trimester**

#### ***Prerequisite: Linux I***

This elective allows students to learn about additional Linux applications. Students learn about text processing with Emacs, the Gimp, Killustrator, and Graphics Viewers.

### **Logic for Programming**

#### **Elective: One Trimester**

Learn the "scheme" computer language, a simple language that teaches ways to think through problem solving, object-oriented programming, and logic. No previous programming knowledge required.

### **A Look at Operating Systems**

#### **Elective: One Trimester**

Operating Systems are the link between man's mind and the computer. Operating Systems come in ranges of type difference in GUIs and sometimes multiple interfaces. The point of this elective is to familiarize and teach students about various flavors of OSs, and show them that Microsoft Windows isn't the only one running the show anymore. This class features hands on projects and teamwork on the computers. Some computer experience is required in order to take this course. However, if one enjoys working around computers, and is interested in the field as either an occupation or a hobby, they will find this course interesting.

### **Microsoft Access**

#### **Elective: One Trimester**

Microsoft Access is used as a tool to learn about databases. Students learn how databases organize their data. They investigate how tables, forms, queries, and reports are all used to create, update, ask questions about, and display data. This information is also used to see how websites use databases in order to display information that changes.

### **Running a Small Business with Microsoft Office**

#### **Elective: One Trimester**

This class reviews the general documentation concerns of running a small business. The class provides an overview of typical revenues and costs of small businesses, and also provides some insight into determining more specific money flow. It demonstrates how to use Microsoft Office Components (PowerPoint, Excel, and Word) to generate business plans, estimate sheets, budget sheets, and other business documents. This class focuses on automating budgets and estimates using advanced functions of Microsoft Excel.

## **DEPARTMENT OF THE ARTS**

### **Arts in Latin America**

#### **Elective: One Trimester**

This course follows an historical outline with three major periods of investigation that includes Pre-Colombian Art, Arts of the Colonial Period, and Modern Art. Students have the opportunity to explore, and become familiar with, the sculpture, architecture, and painting of Latin America. The course is taught in English.

### **Decorative Arts I, II**

#### **Elective: One Trimester**

This course provides students with the opportunity to investigate a variety of surface finishes used in today's decorative arts/interior design fields. Students learn several techniques for creating wall finishes, stenciling, gilding, distressing/antiquing, and mural painting. All steps are demonstrated and practiced, from surface preparation,

to color mixing, to final protective coating. Students leave the course with professional sample boards that can be used as models for furthering their skills or as samples for potential clients and employers.

### **Drawing I, II, III**

#### **Elective: One Trimester**

Whether a beginner or more advanced artist, students are given the opportunity to express their creativity in a studio environment. The following concepts are studied through lecture and application: one point perspective, creating effective compositions, proportions, light and shadow, positive and negative space, and volume. Students draw freehand and use tools such as the triangle, t-square, template and ruler. This course allows students to explore the dynamic ranges of media such as pencil, pen and ink, charcoal, color pencil, and computer generated images. Students work from still life, photographs, art reproductions, and appropriate models.

### **Drawing In Color I**

#### **Elective: One Trimester**

Students learn the theory of color and its application, as well as master the tools used to create color in drawing. They demonstrate their ability to create proportion along

with light and perspective and explore how color reacts to light and dark. They also examine rough paper stocks and complete a variety of drawings utilizing the lessons, tools and papers sampled in class.

### **Drawing In Color II**

#### **Elective: One Trimester**

#### ***Prerequisite: Drawing In Color I***

This course is to further develop the student's understanding of drawing and applying color as a fine art and commercial medium. This class begins to develop the basic skills practiced in *Drawing In Color I*, and apply them to fine art and commercial driven art projects. Students focus heavily on color, subjects and concept, and begin to create for the commercial world.

### **Drawing in Ink**

#### **Elective: One Trimester**

This course introduces students to the basics of drawing in ink. Through lectures, visuals and demonstrations, students are able to identify different inking styles, and demonstrate the techniques studied. Students are given a variety of exercises to practice these techniques and maintain a sketchbook outside class in which they implement the techniques learned in class through their individual drawings.

### **History of Narrative Film: The Silent Era**

#### **Elective: One Trimester**

This course focuses on the development of the narrative film from its beginnings in France and in the United States through the “golden age” of the silent era. Students learn the history of the invention of film and its subsequent rise to become arguably the most important art medium of the twentieth century. Students learn the language of the film medium and learn how to cast a critical eye towards evaluating and understanding motion pictures. Students spend class time viewing and discussing films, completing an oral presentation, researching topics, writing a research paper, sharing their drafts with classmates, and conferencing with the teacher on an individual basis.

### **History of Television**

#### **Elective: One Trimester**

History of Television is a comprehensive, critical analysis of the major events from television over the past 75 years. The class is designed to give students the historical background of television and how it has had an impact on society. The students receive information on a variety of different aspects of the television industry.

### **Introduction to Art**

#### **Elective: One Trimester**

The goal of this introductory ninth grade art course is to develop the student’s understanding of color, drawing and idea development. Through lectures, visuals, films, music, theories and techniques, students demonstrate an ability to identify and critique elements within works of art; engage in projects individually and in groups; work in different media; and discover new ways of research. Students create a portfolio of work exemplifying their understanding of specific skills and maintain sketchbooks and journals for idea building.

### **Introduction to Cinematography**

#### **Elective: One Trimester**

This course is devoted to the study of outstanding movie directors whose films express a unique view of the world. Students are introduced to major films from a broad-based spectrum of styles, genres, historical periods, and national cultures. Through the projection and discussion of selected major movies, students have the opportunity to develop and enhance critical thinking skills as applied to the analysis, interpretation, and critical assessment of movies.

### **Painting I**

#### **Elective: One Trimester**

This course introduces students to the basics of painting using acrylics and watercolor. Through lectures, visuals and demonstrations, students are able to identify different styles of the masters, paints, tools and techniques. Students apply the different techniques demonstrated in class through exercises and individual projects.

## **Painting II**

**Elective: One Trimester**

***Prerequisite: Painting I***

The goal of this course is to further develop the student's understanding of painting. Through lectures, visuals and demonstrations, the student is able to master color mixing and conversion as well as the use of various paints and tools. Students are given a variety of exercises focusing on the different techniques demonstrated in class which will then be applied in long-term projects.

## **Power of Concept I: Idea Development**

**Elective: One Trimester**

This course focuses on creating concepts and powerful messages through design. Students examine the commercial world of publishing, advertising, fashion and consumer products. Class consists of lectures, guest speakers, field trips, films, visuals, several hands-on computer generated projects, as well as, reading and writing assignments. Students mount their work and begin to build a portfolio.

## **Power of Concept II**

**Elective: One Trimester**

***Prerequisite: Power of Concept I***

This class reviews what was learned in level one and applies the lessons to page layout for magazines, newspapers, books and more. Students work with paste up and explore the use of computers in design, as well as study the importance of balance, space and legibility. Emphasis is placed on the student's ability to follow through, and on design skills.

## **Product Design**

**Elective: One Trimester**

The role of a designer is a crucial factor in the successful development of manufactured products, whether you are designing a shower radio or an industrial tractor. This course allows each student to invent and design a unique product that could be sold in today's competitive market. Through careful research, students design a product with a series of sketches into a final product, create storyboards that reveal interaction with human users, and build three dimensional models. The following design concepts are explored: color, composition, line, shape, perspective, volume, and proportion.

## **Set Design**

**Elective: One Trimester**

This course gives students the opportunity to design the physical surroundings in which the action of a theatrical event takes place. In this class, students use several tools to communicate how a set evolves. Starting with rough sketches through final drafts, students design floor plans (including front elevations) and build three dimensional models for reference. Several design concepts are discussed in this course through lecture and demonstration.

### **World of Fashion I**

#### **Elective: One Trimester**

The goal of the course is to introduce students to different aspects of the fashion industry. Students examine the figure, the designer and the consumer. Students study the models, the runway, the anatomy, and ethnic differences as well as drawing for fashion, pattern creating, designers and more. Students develop a practical understanding of fashion and begin to draw clothing designs.

### **World of Fashion II**

#### **Elective: One Trimester**

The goal of the World of Fashion II curriculum is to continue building on the students' knowledge and skills learned in level I. Students examine the female figure and begin to study the male and adolescent body proportions (from toddler to teen), as well as, pattern making, fabric weaves and sewing. Students are required to create three clothing lines and sew one original design. The combination of level I and II provides students with the portfolio needed to enter a prestigious fashion school.

## **DEPARTMENT OF MUSIC**

### **Applied Music**

#### **Elective: One Trimester**

#### ***Prerequisite: Permission of Instructor***

Applied Music is an open-ended course available to any student. Students may take lessons, focus on specific areas of music study or receive extra help in areas of performance. Students with prior experience can also work in the MIDI lab to create CD's. Space is limited due to the amount of individualized instruction.

### **Beginning Guitar**

#### **Elective: One Trimester**

The main goal of this course is to have a student, with no prior knowledge of music or the guitar, gain enough skills to begin playing the instrument independently. Additionally, the strong foundation will enable students to continue learning music through the guitar. Topics include reading music, chords, guitar technique and tuning. This class consists of lecture and highly individualized learning.

### **Chorus**

#### **Elective: Three Trimesters**

The study of music through performance in chorus is designed to develop students' understanding and appreciation of music through practical skills and creative work. Students discover music as a source of enjoyment and personal satisfaction. Classical, popular, Renaissance, Broadway, and folk music are covered. Students learn music theory and history and how to balance and blend voices.

### **Clarinet Ensemble**

**Elective: One to Three Trimesters**

***Prerequisite: Permission of instructor, possible audition***

This course is designed to meet the needs of students who play the clarinet and wish to enhance their performance skills by studying, rehearsing, and performing with other clarinetists. Repertoire is chosen from many different genres, including Baroque, Classical and Contemporary. Performances are a required part of this class.

### **Concert Band**

**Elective: Three Trimesters**

Open to students, who have had experience in band in middle school, this elective requires students to perform music of all types including contemporary band repertoire and arrangements of music by the masters. Pianists are welcome. The course runs a full year and requires students to participate in performances.

### **Flute Ensemble**

**Elective: One to Three Trimesters**

***Prerequisite: Permission of instructor, possible audition***

This course is designed to meet the needs of students who play the flute and wish to enhance their performance skills by studying, rehearsing, and performing with other flutists. Repertoire is chosen from many different genres, including Baroque, Classical and Contemporary. Performances are a required part of this class.

### **Guitar II**

**Elective: One Trimester**

***Prerequisite: Beginning Guitar***

Ever wonder how to play that hit song you've heard on the radio on the guitar? In this class, students are able to pick which songs they want to learn and they are taught to play them. Songwriting is discussed in this class after students learn how other musicians wrote songs.

### **Jazz Band**

**Elective: Three Trimesters**

***Prerequisite: Concert Band member, audition***

This course is open to the more experienced instrumentalists who are interested in performing music of this genre. The focus is on Swing, Blues, and Jazz-Rock. All members learn to improvise and have opportunities to solo with the band. Instruments that are part of Jazz Band are trumpets, trombones, saxophones, keyboard, drums, guitar, and bass guitar.

### **Music Composition**

**Elective: One to Three Trimesters**

This course is designed to meet the needs of students with no prior musical knowledge. In an interdisciplinary thematic unit, some of the mystery of music composition is lifted. Students work individually and in pairs to cover elements of rhythmic, melodic,

and harmonic composition. By the end of the unit, students compose their own twelve-bar blues and understand how they got there! In addition to music composition, this course also involves the disciplines of math, social studies, language arts, and technology.

### **Percussion Ensemble**

**Elective: One to Three Trimesters**

***Prerequisite: Permission of instructor, possible audition***

Drumming appeals to all people at the most basic level. In this class, a variety of genres may be explored, but the primary focus will be music written specifically for this type of ensemble during the 20<sup>th</sup> and 21<sup>st</sup> centuries. Enrollment is limited, and those with more advanced skills are given preference over others. Performances are a required part of this class.

### **Popular Music**

**Elective: One Trimester**

Students learn about the genres in popular music from early blues to hip-hop. Students receive instruction on how to use the MIDI lab as they examine each genre in depth. As a culminating project, students create a one-hour simulated radio program centering on one genre.

### **Select Girls A Cappella**

**Elective: One Trimester**

***Prerequisite: Audition***

Move over guys, this is a performance class for girls only. Everything students sing will be unaccompanied, thus a cappella. The musical selections include popular music from the fifties to today. Enrollment for this class is limited by number and also by singing ability. For acceptance, students must have the ability to sing independently, to learn a part quickly and be fearless! An audition is required.

### **Select Vocal Ensemble**

**Elective: Three Trimesters**

***Prerequisite: Chorus member, audition***

Join students in an advanced vocal ensemble which performs more difficult music in several styles, languages, and settings. Select Chorus members are encouraged to audition for county and regional choruses. Students in Select Chorus perform several times each year. Enrollment is by audition.

### **Sight Singing and Ear Training**

**Elective: One Trimester**

Sight Singing and Ear Training is designed primarily for singers that wish to further develop their ability to sing a piece of music at sight. That means being able to look at the sheet music and know what it sounds like without having ever heard it before! No prior knowledge of music reading is required.

### **Talent Showcase - Dr. John Grieco Scholarship Fund**

#### **Elective: One Trimester**

If you are creative, talented, enjoy directing shows, want to be involved in a video crew, are a good organizer, or want to support the fundraising efforts of the Dr. John Grieco Scholarship Fund, be a part of this Talent Showcase to be held once a year.

## **DEPARTMENT OF PHYSICAL EDUCATION/HEALTH**

### **Physical Education 9**

#### **Core: Two Trimesters**

This physical education and health program is designed to develop skills for both daily routine and leisure time activities. This course encourages students to take responsibility for their own lives by acting conscientiously in the present and establishing positive health practices that support and enhance lifelong wellness. The goal is to develop citizens who are both health-literate and physically educated. Students apply movement concepts and the principles of physiology and psychology to improve personal performance in physical activity. Students discuss the physical and psychological benefits derived from health-related fitness activities, as well as design and evaluate a personal fitness plan, which takes into consideration fitness, health and nutritional status, age, interests and abilities, and analyze how the plan may be adapted to injury, illness, or aging.

### **Health 9 - Family Life**

#### **Core: One Trimester**

This course covers the following categories outlined by the NJ Department of Education: Family Life, Interpersonal Relationships, Foundation of Human Growth and Development, and Responsible Personal Behavior. Students discuss, examine and form their own conclusions and values concerning the family unit.

### **Physical Education 10**

#### **Core: Two Trimesters**

In the tenth grade course, students continue to work on activities which emphasize interpersonal relationships and individual growth. Participation encourages students to develop greater self-confidence and at the same time acquire a sense of trust and commitment for their classmates. The course reinforces the wellness concepts introduced in the ninth grade curriculum, helps students develop a personal fitness plan, and allows students to participate in a wide variety of both individual and team sports that include traditional as well as lifetime activities.

### **Driver Education 10**

#### **Core: One Trimester**

This class emphasizes the theory and safety of driving. The major goal of the course is to develop good perception, judgment, driving skills and decision-making abilities. In addition, factors that have a negative impact upon driving are discussed in the

context of personal and societal responsibility. Students take the N.J. State High School Driver Education Examination at the conclusion of the trimester.

### **Physical Education 11**

#### **Core: Two Trimesters**

In the eleventh grade course, students continue their progress by engaging in cooperative games and activities to build life skills such as self-assurance and a respect for others. Students participate in advanced fitness activities and both individual and team sports that include traditional as well as lifetime activities.

### **First-Aid 11**

#### **Core: One Trimester**

This eleventh grade class provides the individual with the knowledge and skills to save his/her own life or the life of another person in the event of an emergency. Students learn how to administer life-saving skills through CPR. This course includes self-help and home first-aid care if medical assistance is not available or is delayed.

### **Physical Education 12**

#### **Core: Two Trimesters**

Health and physical education programs encourage students to accept responsibility and accountability for their own actions in grade 12. They learn how to maintain and establish healthy life-long routines. During the student's 12th grade school year, the program introduces a variety of both individual and team sports that may include traditional as well as lifetime activities.

### **Health 12-Family Living**

#### **Core: One Trimester**

This course is designed to prepare students for real life events they ultimately encounter. They explore dating, relationships with family and friends, parenthood, marriage, divorce, and other interpersonal situations. Throughout the course, students experience caring for a child, share views on adulthood, and examine and create an enhanced learning environment based on fact and creative opinion.

### **Basic Nutrition**

#### **Elective: One Trimester**

This course focuses on nutrition and how our eating habits affect our lifestyles. Nutrition is the study of nutrients in foods and the body's handling of those nutrients. It is the science that investigates the relationship between physiological function and the essential elements of the foods we eat. Students are introduced to the Food Guide Pyramid, the six classes of nutrients, food labels and how to read them as well as food journals.

### **Kinesiology**

#### **Elective: One Trimester**

Kinesiology is the study of human movement. Reasons to study kinesiology are to improve performance by learning how to analyze the movements of the human body and to discover their underlying principles.

### **Life Skills**

#### **Elective: One Trimester**

This course is designed to expose students to the realities of adulthood. They learn the process behind choosing careers, purchasing homes, buying vehicles, and raising families. The course is dedicated to giving information that the students will use in their personal lives. Each student will build a portfolio that can be used as a reference.

### **Weight Training**

#### **Elective: One Trimester**

This course focuses on the maintenance of the human body. It will help an individual realize how to maximize the use of the muscle system and its components. Students participate in various motor activities, and spend time utilizing weights, machines and fitness equipment to better develop and maintain their body. Improvement in body composition is the goal.

### **Yoga**

#### **Elective: One Trimester**

Yoga is more than exercise: it is a spiritual system, which has its roots in India. Within the spiritual system it is recognized that each of us is a citizen of two worlds; the inner world of thoughts, emotions, and sensations and the outer world of the universe in which we interact. The discipline of yoga addresses both the inner and outer worlds and proposes a system of physical (including breath) and mental practices, which strengthen our self awareness and equip us to deal with the outside world. The purpose of yoga is direct knowledge of the self, known as the union of the mind and body. The benefits of practicing yoga are reduced tension in the body, increased flexibility, and a relaxed mental state.

## **DEPARTMENT OF WORLD LANGUAGES**

### **French I**

#### **Core: Three Trimesters**

French I is a beginner's course designed to challenge students to use language in meaningful contexts and real-life situations. It incorporates classroom instruction, student-centered activities, and technology-based cooperative projects. While developing communication skills in the target language, students gain knowledge and understanding of the French culture, and connect to other disciplines and information. Students develop strategies that enable them to continue the process of language learning and to understand better their own culture and its relationship with other cultures.

## **French II**

**Core: Three Trimesters**

***Prerequisite: French I***

Incorporating and reinforcing the elements of language taught in French 1, this course is designed to expand students' abilities in the target language to more complex situations and settings. Even though the emphasis is placed on communication, students continue to develop the four skills of listening, speaking, reading, and writing, as well as extend their knowledge of the French culture. Relevant and developmentally appropriate topics that are intrinsically interesting, cognitively engaging, and culturally connected are introduced in meaningful contexts to challenge students to use language to broaden their understanding of themselves and their world and to stress the interrelationship between language and culture. The goal is ultimately to provide students with the skills they need to function in Francophone countries and communicate with native speakers.

## **French III**

**Core: Three Trimesters**

***Prerequisite: French II***

Incorporating the elements of language taught in French 1 and 2, this course is designed to expand students' abilities in the target language to more complex situations and settings. Even though the emphasis is placed on communication, students are introduced to literary pieces designed to expand their reading and writing skills. The goal is ultimately to provide students with the skills they need to interact with native speakers.

## **French IV**

**Core: Three Trimesters**

***Prerequisite: French III***

This course is designed to develop students' communication skills and cultural knowledge of the French language. Students analyze various elements of French civilization while projects allow students to use the language in a variety of situations with ever-increasing linguistic and cultural accuracy. Through the study of grammar and reading selections, students increase their control over the language structures while gaining proficiency in listening, speaking, reading, and writing. The ultimate goal is to provide students with the skills they need to interact in an appropriate manner with native speakers.

## **French V**

**Core: Three Trimesters**

***Prerequisite: French IV***

The intent of this course is to deepen the students' cultural knowledge of France, and raise the level of spoken French, making them conversant with France, the modern nation. Students are able to entertain a conversation with their French peers, and be

fluent at interviews or student debates. Students review the history and geography of France, before delving more deeply into the political & social make-up, the prevailing economic situation, the varied and regional culture in France, the music (both classical and modern), activities in the art world, media, sports and leisure.

### **Spanish I**

#### **Core: Three Trimesters**

This course is designed to prepare students to function linguistically and culturally as novice speakers of Spanish. The curriculum challenges students to use language in meaningful context in order to broaden their understanding of the Spanish language. Rather than focusing on mastery of grammar and vocabulary as the primary objectives of secondary language study, the course requires students to communicate about relevant topics that are intrinsically interesting, cognitively engaging and culturally connected.

### **Spanish II**

#### **Core: Three Trimesters**

#### ***Prerequisite: Spanish I***

Spanish II incorporates and reinforces the elements of language taught in Spanish I. The goal of the course is to expand students' ability to communicate in Spanish in more complex situations and settings. In addition to verbal communication skills, students also work to develop the skills of reading and writing, as well as develop their understanding of Spanish culture.

### **Spanish III**

#### **Core: Three Trimesters**

#### ***Prerequisite: Spanish II***

The goal of this course is to provide students with the skills they need to function in Spanish-speaking countries and to communicate with native speakers. Relevant and developmentally appropriate topics that are intrinsically interesting, cognitively engaging and culturally connected will be introduced in meaningful contexts to challenge students to use language to broaden their understanding of themselves and their world, and to recognize the interrelationship between language and culture. Authentic readings relevant to teenagers are introduced and discussed in the target language.

### **Spanish IV**

#### **Core: Three Trimesters**

#### ***Prerequisite: Spanish III***

Spanish IV is designed to substantially increase the active and passive vocabulary of the student. Readings relevant to the age and interest of the group are introduced. Current events and connections with World Literature and World Studies provide opportunities to develop critical reading skills as well as analytical skills using the new language. Students continue to refine their communication and grammatical skills.

### **Spanish V with Certification**

**Core: Three Trimesters**

***Prerequisite: Spanish IV***

Spanish V is a course especially designed to qualify students to obtain certification in proficiency of the Spanish language. Students have to pass three different tests prepared by the Salamanca University, organized by the Cervantes Institute, and certified by the office of Education and Science of the Spanish government. The certificates that students will receive after passing the tests are: Certificado Inicial de Español (C.I.E.), Diploma Básico de Español (D.B.E.), and Diploma Superior de Español (D.S.E.). Besides the three tests that students must take in this course, they have to be able to read, understand, speak, and write (in the target language), about a variety of short stories written in Spanish.

### **Spanish I - Heritage**

**Core: Three Trimesters**

This course offers the student who understands, speaks, and uses Spanish at home, and/or in some social activities, the opportunity to explore, conceptualize, and apply the Spanish language and its inherent culture in his/her life. The literature component answers two organizing questions: “What makes me who I am?” and “What happens when two cultures collide?” All the activities, readings, writing, projects, audios, videos, and other lexical and grammatical resources are directed to teach how to communicate efficiently. The learner is viewed as a transmitter-receiver who produces clear messages and decodes efficiently.

### **Spanish II - Heritage**

**Core: Three Trimesters**

***Prerequisite: Spanish I Heritage***

This course is designed for the student who understands, speaks, and uses Spanish at home. The coursework centers on the history and literature of Central America and the Caribbean. Students focus on the relationship of Latin American history and literature to the history and literature of the United States in the 20<sup>th</sup> century. Audios, videos, readings, writings, and projects have the goal of allowing students to communicate more efficiently and effectively.

### **Spanish III – Heritage**

**Core: Three Trimesters**

***Prerequisite: Spanish II Heritage***

This course facilitates the learning of the native language as an integral, pertinent and stimulating experience both intellectually and affectively by developing critical thinking skills, promoting the development of multiple intelligences, encouraging group work and enriching the vocabulary. At the same time, the course emphasizes ethic, aesthetic and civil values. The thematic units are coordinated with the general theme of World Literature and World Studies from the English and Social Studies departments.

## **AP Spanish**

### **Elective: Three Trimesters**

#### ***Prerequisite: Placement assignment, teacher recommendation***

The AP Spanish Language course prepares students to demonstrate their level of Spanish proficiency across three communicative modes (Interpersonal [interactive communication], Interpretive [receptive communication], and Presentational [productive communication]), and the five goal areas outlined in the *Standards for Foreign Language Learning in the 21<sup>st</sup> Century* (Communication, Cultures, Connections, Comparisons, and Communities). The course is meant to be comparable to fifth and sixth semester (or the equivalent) college and university courses that focus on speaking and writing in the target language at an advanced level. At the end of the course, students take the AP Spanish Exam administered by the College Board.

## **Chinese 1A**

### **Elective: One Trimester**

This is an introduction to the Chinese language. The Chinese language is one of the oldest languages on the planet, and continues to be used by millions of people in China, Taiwan, and around the world. In this course, students learn the basics of Mandarin Chinese using the Pinyin Romanization system along with traditional Chinese characters. Basic vocabulary is introduced as well as simple sentence structure and grammar. The course focuses on reading, writing, speaking, and listening. The culture of Chinese society is also introduced through videos, songs, and food. This course is open to all students.

## **Chinese 1B**

### **Elective: One Trimester**

This is a continuation of Chinese 1A. The Chinese language is one of the oldest languages on the planet, and continues to be used by millions of people in China, Taiwan, and around the world. In this course, students learn the basics of Mandarin Chinese using the Pinyin Romanization system along with traditional Chinese characters. Basic vocabulary is introduced as well as simple sentence structure and grammar. The course focuses on reading, writing, speaking, and listening. The culture of Chinese society is also introduced through videos, songs, and food.

## **Introduction to Japanese**

### **Elective: One Trimester**

The purpose of this course is to provide students with knowledge that can be put to immediate use in conversational situations to obtain the information they need and communicate with native speakers. Although some grammatical patterns are presented, the stress is not simply on grammatical accuracy, but rather on acquiring actual linguistic patterns needed in Japanese communication. Although this course is an introduction to the Japanese language, it provides students with a solid foundation

for the study of Japanese at a higher level. Through this course, students are introduced to the Japanese forms of writing: the two kana syllabaries and some of the basic characters (J\_y\_ Kanji). Students have the opportunity to work on pronunciation, accent, and intonation.

### **Japanese I**

#### **Elective: One Trimester**

Japanese I continues the Introduction to Japanese class in the development of functional proficiency in listening, speaking, reading and writing Japanese. Following a communicative approach, this course enables students to use Japanese in real-life situations for different communicative purposes. A stronger emphasis is placed on writing and reading as students review the two syllabaries. Students are introduced to Kanji characters.

### **Latin**

#### **Elective: One Trimester**

This course introduces students to the sounds, structures and lexicon of the Latin language. Essential grammar and vocabulary are covered in the trimester, and students are also introduced to the histories and cultures of regions where Latin was spoken in antiquity.

### **Spanish Grammar Games**

#### **Elective: One Trimester**

This is a review of Spanish I grammar. Students review the gender of nouns, plural forms of nouns, definite and indefinite articles, regular and irregular verbs in the present tense, ser vs estar, reflexives, the verb: “Hay”, etc.

### **Spanish Poetry**

#### **Elective: One Trimester**

This course is designed to introduce both American as well as native-Spanish speakers to the world of Spanish poetry. Students learn variations in rhyme and syllables, figurative language, accentuation, intonation, dramatization, and imagery. Students are able to determine what genre of poetry they are reading. This course stresses vocabulary development as well as poetry analysis. Students analyze the poetry of many of the great Hispanic poets, such as: Jose Marti, Gustavo Becquer, Tomas de Iriarte, Fray Luis de Leon, Sor Juana de la Cruz, and Pablo Neruda.

### **Spanish Tutoring Center**

#### **Elective: One Trimester**

Spanish Tutoring Center reinforces the basic skills in the development of functional proficiency in listening, speaking, reading and writing Spanish. Following a communicative approach, this course enables students to use Spanish in real-life situations for different communicative purposes. A stronger emphasis is placed on reading and speaking the target language as students interact in a variety of real situations using appropriate verbal and non verbal communication strategies.

## **DEPARTMENT OF SCIENCE/BIOMEDICINE**

### **Science Safety, Careers and Bioengineering**

#### **Biomedicine Academy Core 9<sup>th</sup> Grade: Three Trimesters**

This is a career focus course for the ninth grade Biomedicine Academy students. Students are introduced to biomedical engineering, basic human biology and the tools used to study and repair the human body, and career opportunities in the scientific research sector. Work in the second and third trimesters deal with clinical applications, how technology is used in medical science including doctor's offices and hospitals, along with an introduction to laboratory procedures and careers in medicine, dentistry, and allied health care professions.

### **Epidemiology and Experimental Design**

#### **Biomedicine Academy Core 10<sup>th</sup> Grade – Three Trimesters**

##### ***Prerequisite: Science Safety, Careers and Bioengineering***

The second year of the Academy focus for the Biomedicine Academy students involves three different, but related areas. Students explore the care and use of animals in all fields of science and animal husbandry to ensure continued ethical and humane treatment. Secondly, students apply their understanding of the scientific method to undertake Experimental Design. Formulating questions and a mechanism by which to discern the answer is experimental design. Finally, they build upon the laboratory skills and techniques learned in the previous year to carry out our experiment, collect data, and reach conclusions.

### **Pharmacology & Infectious Disease and Immunity**

#### **Biomedicine Academy Core 11<sup>th</sup> Grade – Three Trimesters**

##### ***Prerequisite: Epidemiology and Experimental Design***

In this career-focus course, the concepts of how infectious diseases are spread and their effects on the body are explored. Current topics in this area include Mad-cow disease and the Avian flu. This course follows the curriculum of the National Institutes of Health supplement for teachers of life sciences. How the body regains homeostasis by natural means (immunity) or by medical intervention (pharmaceuticals) is the content for the second half of this year-long course.

### **Bioethics**

#### **Biomedicine Academy Core 12<sup>th</sup> Grade – Three Trimesters**

##### ***Prerequisite: Pharmacology and Infectious Disease and Immunity***

Bioethics is the field of study concerned with the ethics and philosophical implications of certain biological and medical procedures, technologies, and treatments. Issues pertaining to organ transplants, genetic engineering, care of the terminally ill, and advances in the fields of genetic engineering and drug research is studied. During this senior level seminar course, students are asked to draw on their understanding of natural science (biology, chemistry, and physics) to discuss and determine the potential impact on society of innovations and discoveries in biomedicine.

## **Biology I - The Study of Life**

### **Core 9<sup>th</sup> Grade: Three Trimesters**

Biology is a science that stresses inquiry and depends upon the basic relationships of the physical sciences as well as living things. This course is presented with these ideas in mind. While the presentation of content is a major part of this course, the development of critical thinking skills is considered of paramount importance. Also important are safe practices, the attitude a student displays as he or she learns science, and the development of qualities inherent in the practice of science, such as curiosity, skepticism, open-mindedness, and honesty when collecting and interpreting findings. All appropriate laboratory experiences are conducted during regular classroom time to strengthen student understanding of material covered.

## **Chemistry**

### **Core 10<sup>th</sup> Grade: Three Trimesters**

The tenth grade core course is an introductory chemistry program in which students gain a fundamental understanding of physical and chemical changes, atoms, molecules, basic atomic structure, electron configuration, the Periodic table, quantitative calculations, chemical reactions, acids, bases, solutions, behaviors of gases, etc. The curriculum includes projects, laboratory investigations, demonstrations and problem-solving activities.

## **Physics**

### **Core 11<sup>th</sup> Grade: Three Trimesters**

This course is an introductory physics program in which students study heat, kinetic theory, properties of gases, liquids and solids, and the laws of thermodynamics. In the second and third trimester, students work on electrostatics, properties of direct current and magnetism. The curriculum includes projects, experiments, labs and problem-solving exercises.

## **Anatomy and Physiology**

### **Elective: Three Trimesters**

This year-long elective, meeting five periods per week, is part of the Healthcare Occupations Partnership Program with Bergen Community College. Students accepted into the program have preference in admission to the course, but juniors and seniors are welcome if space is available. This course examines the human body from a systems approach and is a laboratory based class. Animal dissections are an integral part of the course as well as didactic lectures. It is designed to prepare students for further study in the health care field and to earn college credits while still in high school. In order to earn college credits, all students must successfully complete the final examination as prescribed by the college. In addition, those students that are not part of the Healthcare Occupations Partnership Program are required to pay a fee to the college to receive a transcript.

### **AP Biology**

#### **Elective: Three Trimesters**

#### ***Prerequisite: Biology (Placement assignment, teacher recommendation)***

This full year course may be elected by interested students in their senior year. The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. A prescribed curriculum that prepares students for testing encompasses seven major themes in biology that are all tied together by the unifying concept of evolution. Laboratory exercises and experiments are an integral part of the course and require that students be able to formulate hypotheses and draw conclusions from their work. Extensive reading on a college level from texts and supplemental materials is undertaken to properly prepare students for the culminating examination.

### **AP Chemistry**

#### **Elective: Three Trimesters**

#### ***Prerequisite: Chemistry ( Placement assignment, teacher recommendation)***

This full-year elective is a systematic review of chemistry designed for students with a strong background who need a review and some additional practice in problem solving. It helps students who want to improve their preparation for college chemistry as well as those who desire advanced placement. Topics covered include gas laws and stoichiometry, chemical reactions, atomic theory, structure and bonding, equilibrium, acids and bases, thermodynamics, kinetics, and electrochemistry.

### **AP Physics**

#### **Elective: Three Trimesters**

#### ***Prerequisite: Physics (Placement assignment, teacher recommendation)***

This course provides students with an opportunity either to have an accelerated college program or to meet a basic science requirement in college; in either case the student's college program may be enriched. This course matches a year-long college level survey course sequence that uses algebra and trigonometry. Topics covered are Newtonian Mechanics, Electricity and Magnetism, Waves and Optics, Thermal Physics, and Atomic and Nuclear Physics. At the high school level, this is a rigorous course, which demands a commitment on the part of the students, teacher, and parents. The AP exam is conducted by the College Board mid- May. Because of time constraints, independent study is absolutely necessary to complete the course requirements. To accommodate this enormous undertaking, students must start their preparation for the course right from the beginning of the summer.

### **BioPhysics**

#### **Elective: One Trimester**

The study of objects and human bodies in motion is the essence of physics, biomechanics, and sports. In sports, an athlete's form, technique, and strategy often represent the difference between success, failure, and possible injury. In healthcare, physical therapists utilize their knowledge of biomechanics when choosing rehabilitative exercises and activities for sports-related injuries. Physics topics to be

covered include, but are not limited to: Center of Mass, Forces, Motion, Fluid Mechanics, Waves, Energy, and Momentum. Students conduct experiments to further their understanding of these basic concepts learned in their core physics course. This one trimester elective course is recommended for Junior and Senior students not enrolled in AP Physics but desiring to strengthen their profiles and/or prepare for the SAT II Physics test.

### **Botany**

#### **Elective: One Trimester**

Through this course, students gain a basic understanding of flora. The course covers internal cellular structure, external organ morphology and evolutionary relationships in plant development, as well as the physiological operations of these plant structures. The importance of plant biome products for population use is an underlying theme addressed.

### **Earth Science - Astronomy**

#### **Elective: One Trimester**

This elective course deals with standard astronomy as well as with stellar nuclear reactions which produce the elements. This course provides a broad introduction to all astronomy including a study of the solar system including planets, moons, asteroids and comets; stars and stellar evolution; galaxies, quasars and black holes; and cosmology including the expansion of the universe, its origins in the Big Bang and its future. Students use the Internet as a means of keeping up with the latest information available in the field.

### **Earth Science - Geology**

#### **Elective: One Trimester**

This course introduces students to plate tectonics, earth quakes, volcanism, geologic formations, and the forces which constantly reshape the planet. The history of the continents and oceans is investigated using data collected from the internet and selected websites maintained by NOAA, NASA, USGS, Lamont-Doherty Earth Observatory, and other government and university locations.

### **Earth Science - Oceanography**

#### **Elective: One Trimester**

Taken as a whole, Earth's oceans comprise one of its largest interacting, interrelated, and interdependent systems. As humans continue to impact Earth systems, it is important to understand not only how the oceans operate, but also how the oceans interact with Earth's other systems, such as the atmosphere, biosphere, and hydrosphere. This course is designed to introduce the science student to the physical and biological effects of the Earth's oceans on our planet.

### **Electricity and Magnetism**

#### **Elective: One Trimester**

This two-trimester course is primarily for 12<sup>th</sup> graders who are interested in further exploring the concepts of Electricity and Magnetism, but are not enrolled in AP Physics. This is beneficial for students in the Pre-Engineering, Biomedical, or Information System Academies, who may be required to take Physics courses at college level. This additional topic enhances the profile of the student when applying to college and can be beneficial in the preparation for the SAT II in Physics. Students explore the natural phenomenon of electricity and magnetism, as well as its application in circuitry.

### **Environmental Science**

#### **Elective: One Trimester**

This science elective is open to all students who have an interest in the study of the world around them. There are no prerequisites and the duration is one trimester. The course discusses the environment from an ecosystems approach, but focuses on the impact that human civilization has had on the natural world. Ozone depletion, water pollution, solar energy, recycling; these are a few of the topics that are discussed using reading selections from current magazines and newspapers.

### **Forensic Science**

#### **Elective: One Trimester**

This elective begins with training in deductive reasoning of crime scene evidence. The types of evidence available at a crime scene can be biological or physical. Tissue and bone samples, bodily fluids, fingerprints, footprints, and DNA are examples of some biological samples. Other forms of physical analysis are fibers and hair, soil analysis, tool marks, ballistic data, and chemical content. The study of Forensic Anthropology uses science and math to determine the identity of a missing person. Students investigate famous crimes in history, and review the forensic evidence to determine, using 21<sup>st</sup> century techniques, whether or not the original jury findings were correct.

### **Medical Terminology**

#### **Elective: Three Trimesters**

This science elective is only open to those students who have been accepted to the Healthcare Occupations Partnership Program. This is a year-long elective that meets two times per week. This course in the language of medicine is a Bergen Community College course taught on our high school campus. It is designed to prepare students for further study in the health care field and to earn college credits while still in high school. In order to earn college credits, students must successfully complete the final examination as prescribed by the college.

### **Meteorology**

#### **Elective: One Trimester**

This course offers a general exposure to weather and the forces that produce it. Students study atmospheric physics, some dynamics, even some folklore; from fog and drizzle to tornadoes and hurricanes.

### **Microbiology**

#### **Elective: One Trimester**

This course is designed to introduce students to the world of microbes. Attention is given to the great diversity of microorganisms, beneficial as well as pathogenic bacteria. Students explore how bacteria and viruses conduct their lives' activities, causing disease in the process. Current issues in microbiology are also investigated - issues such as emerging viruses, bio-terror, and the problems our healthcare system faces in light of these events.

### **Optics and Optical Instruments**

#### **Elective: One Trimester**

This course is for 12<sup>th</sup> graders who are interested in furthering their study of Physics in the area of Optics. This is beneficial to students in the Pre-Engineering, Biomedical, or Information System Academies, who may be required to take Physics Courses at the college level. This additional physics course is aimed at those students who have an interest in the topic, desire to prepare for the SAT II in Physics, and may want to strengthen their profile for college but are not currently enrolled in AP Physics. Students explore the properties of light and the current technology used in some optical instruments.

### **Zoology**

#### **Elective: One Trimester**

The objective of this course is to give students an overview of the great diversity that exists within the animal kingdom. The focus is on evolutionary relationships among the different animal phyla and how each group has successfully adapted to a particular environment. To enhance understanding, students read, view videotapes, handle and examine live specimens and perform dissections.

## **DEPARTMENT OF ENGINEERING**

### **Introduction to Engineering Design**

#### **Academy Core 9<sup>th</sup> Grade: Three Trimesters**

This course begins with the concept of developing a computer-generated model of an object that is already in 3-D. The model is created and observed from many different viewpoints: animated, textured, highlighted, and dimensioned. Students learn to create, control, and use this new and powerful environment.

### **Computer Integrated Manufacturing**

#### **Academy Core 10<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Introduction to Engineering Design***

This tenth grade core course builds on the skills developed in Engineering Design. Students learn the fundamentals of object construction, the creation of working machining, robotics and automated systems, and the rationale, components and applications of Computer Integrated Manufacturing.

### **Principles in Engineering**

#### **Academy Core 11<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Computer Integrated Manufacturing***

This course helps students understand the field of engineering and engineering technology. Through application of theory and hands-on experiences, students gain first-hand knowledge of engineering systems, mechanical design applications, materials testing, structural and statistical analysis, remote control systems and dynamics. Students explore various technology systems and manufacturing processes to learn how engineers and technicians use math, science, and technology to solve everyday engineering problems to benefit people.

### **Engineering Design and Development**

#### **Academy Core 12<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Principles in Engineering***

Students in this course work in teams of two or three to research an open-ended engineering problem then design a creative solution to it. A detailed journal containing all designs, experiments, procedures and sketches are kept by each team. Progress reports are also submitted at various times detailing the teams' current point of development. At the end of the course, each team submits a research paper and a working prototype of their unique solution to the original problem. Each group is able to defend what they have done with an oral presentation to an outside panel.

### **Architecture I**

#### **Elective: One Trimester**

Students design a detailed computer model of any private residence using professional level software commonly used by architects. Participating students research existing plans and employ good home design elements as they create their own private residence or develop a commercially available design. All students work individually on the computer, learning how to use the “Rivet” architectural program created and licensed by Autodesk Company. Students generate 3D models of their home shown in full color interior, exterior and landscaping details. Students generate an animated walkthrough of their home that can be saved and viewed as an independent AVI file on their home computer. **Note:** This is a computer based course and is a prerequisite for taking *Architectural Design II* where this model will actually be built.

## **Architectural Design II**

**Elective: One Trimester**

***Pre-Requisite: Architecture I***

Build a detailed, scale model of the house you designed in *Architecture I*. Participating students use the existing house plans they created previously to build a foam-board residence that accurately reflects their original drawings. Students work in pairs to produce a one-quarter inch per foot model, which emphasizes how the exterior of the building will look on a landscaped lot. Students are required to work with hand and/or power tools in the shop area.

## **Co-2 Dragsters**

**Elective: One Trimester**

Students design, build and race a CO-2 powered car on a specially built 40-foot track. Students first design the racer on the computer, sculpt the aerodynamic body, test it for drag in a wind tunnel, paint it and then race it for medals.

## **Mini-Bike Design**

**Elective: One Trimester**

***Pre-Requisite: IED or have experience in 3D CAD – limited to 16 students***

In this course students have the opportunity to design a custom mini-bike or motorcycle using some of the advanced features of our engineering CAD software. Students are presented with basic motor parts and mini-bike frame onto which they must design and assemble parts to create the finished project. All parts must be of actual size and shape. Each student then generates a full 3D color rendering and print it out on our plotter. This is not an actual building class but strictly a design class. Students can keep the final print.

## **Minibots**

**Elective: One Trimester**

Students learn to wire motors, lights, buzzers, switches and electro-magnets and apply these skills in building real mobile robotic vehicles that perform specific tasks. Students use the vehicle they create, and compete with classmates for medals in a safe and fun competition.

## **Mechanical Systems**

**Elective: One Trimester**

***Pre-Requisite: Minibots***

Students continue to build on and apply the skills learned in Minibots. They work in student teams to design and build a four-wheel drive robot. Their robotic vehicles are able to compete on a specially designed multi-level arena. Students compete with their classmates for medals using the robots they've designed.

## **DEPARTMENT OF FINANCE**

### **Introduction to Business**

#### **Academy Core 9<sup>th</sup> Grade: Three Trimesters**

Students focus on the economic activities that affect their everyday life, such as owning and operating a business. Students learn how business is affected by the global economy and by government. Students learn how businesses find, train, and evaluate new employees. Students are introduced to marketing, business finances, technology and computers, and how they are utilized in business today.

Computer skills are an integral part of the course to prepare students with the skills and knowledge needed for a technology-oriented market. Through the use of the Internet and software programs, students use technology for analysis and problem solving. It is the goal of this course to provide students with a basic foundation in a technology driven and project based environment, sufficient to meet their needs as they move through the Finance Academy curriculum.

### **Business and Personal Finance**

#### **Academy Core 10<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Introduction to Business***

This course is designed to show students how to manage their personal finances now and in the future. This course gives insights into how businesses manage their finances and why wise financial management is critical to personal and business success. This course focuses on the scope of the work that comprises businesses such as insurance, real estate, public finance, accounting, and securities industry. Higher level skills, such as analytical reasoning, problem solving, critical thinking, interpersonal relationships, and creativity are integrated into various activities and Internet projects.

### **Accounting with Real-World Applications**

#### **Academy Core 11<sup>th</sup> Grade: Three Trimesters**

##### ***Prerequisite: Introduction to Banking and Personal Finance***

Accounting with Real-World Applications is a full-year course where students learn how business transactions affect the financial records of the business. Students analyze typical transactions for a sole proprietorship, a service business, a merchandising corporation, and a business partnership. Students record those transactions in a general journal and then post these entries to general ledger accounts. Payroll accounting is explored in depth. Special emphasis is given to ethics in accounting. This course gives insight into how businesses manage their finances and why wise financial management is critical to business success.

## **Marketing**

### **Academy Core 12th Grade: Three Trimesters**

#### ***Prerequisite: Accounting with Real-World Applications***

This course is an introduction to business marketing. It is intended for juniors and seniors in the Finance Academy. It covers the basics of business marketing: advertising, sales, pricing, product definition, and market research. It also covers topics such as product differentiation, product positioning and market segmentation.

## **AP Macro-economics**

### **Elective 12<sup>th</sup> Grade: Three Trimesters**

#### ***Prerequisite: Placement assignment, teacher recommendation***

Macroeconomics deals with the real world of the domestic and global economy. Advanced Placement (AP) Macro-economics allows students to take college-level economics and to earn college credit or placement while still in high school. The AP program offers two separate examinations in economics: one in microeconomics and one in macroeconomics. Each examination is equivalent to at least one-semester of college-level preparation in economics. Students take either or both examinations in May for a single fee. A separate grade is reported for each exam.

## **Banking and Financial Services**

### **Elective: One Trimester**

This elective provides a fundamental background on the banking system, opening and using a checking account, writing and receiving checks, reconciling a checking account, and other ways of making payments. Students are given the opportunity to use the Internet to explore various online banking services.

## **Contemporary Business Issues**

### **Elective: One Trimester**

Students analyze business issues that are prominent in the news. They analyze the genesis of the issue and how the issue is relevant to students' lives. The Internet is used to research the specifics and effects of each issue.

## **Current Topics in Finance**

### **Elective: One Trimester**

This elective examines current topics in finance including ethics, stock fluctuations, growth of international corporations, staff reductions, and loan strategies.

## **How the Stock Market Works**

### **Elective: One Trimester**

Students are required to visit financial sites on the Internet and create and manage individual stock portfolios. Students examine the language of Wall Street and learn how securities are created and traded.

### **International and Global Economics**

#### **Elective: One Trimester**

This elective provides a fundamental background on the interdependency among nations in the global economy. Students examine such issues as international trade, the three types of economic systems, economic conditions in developing countries, and the global economic challenges as we enter the new century. Students are given the opportunity to use the Internet for research and the preparation of reports.

### **Introduction to Accounting**

#### **Elective: One Trimester**

*Introduction to Accounting* is a one trimester elective designed to introduce the student to the world of business and accounting. All businesses keep financial records. The student learns how business transactions affect the financial records of the business. Learning to analyze business transactions correctly is the first step toward learning accounting. The students analyze typical transactions for a small business. Students record those transactions in a general journal and post these entries to general ledger accounts. Special emphasis is given to ethics in accounting. This course gives insights into how businesses manage their finances and why wise financial management is critical to business success.

### **Introduction to Personal Financial Planning**

#### **Elective: One Trimester**

Students examine how an individual spends money and the psychological factors that determine spending. Students develop methods for saving a portion of the money they acquire in life.

### **Introduction to the Securities Industry**

#### **Elective: One Trimester**

This elective focuses on the roles and functions of a modern securities organization. Students examine the structure of brokerage firms, the trading process, credit and margin practices, automated processes, and government regulations.

### **Introduction to U.S Income Taxes**

#### **Elective: One Trimester**

This elective discusses the importance of taxes for personal financial planning. Effective tax planning involves finding out how current tax laws affect the student. Calculating their adjusted gross income enables them to compute their taxable income. Knowing the appropriate tax form to use and how to complete it correctly, enables students to file their taxes efficiently. Choosing appropriate tax strategies for financial and personal situations can maximize earnings and reduce tax liability.

### **Investment Strategies & Portfolio Management**

#### **Elective: One Trimester**

This course is designed after an NYU MBA Finance Course and is extremely rigorous, challenging, and educational. Students learn different investment strategies and

styles, such as value, growth, information trading, arbitrage, market timing, and indexing. Students learn what drives investors in each strategy, and how they attempt to put these strategies into practice and what determines ultimate success.

Few investors consistently beat the market, but there are common denominators among successful investors. The successful investors often use very different investment strategies and often have contradictory views of how markets work and what leads to success. Students in this course study the strategies of Warren Buffett, Peter Lynch, John Bogle, George Soros, and others. Students create their own portfolios on-line, in a hypothetical account, according to their own investment styles. They write a prospectus for their “fund” to attract “investors”, set up their portfolios, and monitor and track progress against benchmarks. At the end of the course, students present their prospectuses, portfolio results, and lessons learned.

### **Managing Your Money & Finances**

#### **Elective: One Trimester**

Managing Your Money and Finances is a one trimester elective designed to alert, inform, and educate students about sound money management skills and the financial planning process. It is essential in our fast-moving society to have some working knowledge of the fundamentals of basic financial planning. Today’s students, in adulthood, are required to take more personal responsibility for actively managing their finances than people of any previous generation. Those who understand financial planning concepts and investment principles have a significant advantage over those who do not. This course focuses on the scope of the work that comprises personal financial planning such as setting financial goals, managing a successful career, budgeting, time value of money, investing, savings, managing credit and debts, and managing risk by purchasing insurance.

### **Microeconomics**

#### **Elective: Three Trimesters**

This course gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. Studies begin with basic economic concepts and move quickly into analytical models of consumer choice; firm production; costs and revenues; determination and pricing of output; determination of wages; and in-depth study of market failures and distribution of income. Students can choose to take the AP Microeconomics exam in May if they wish.

### **Stock Market**

#### **Elective: One Trimester**

Students examine the language of Wall Street, how securities are created, and the role of the stock market in securities trading. They visit financial computer sites via the Internet, create individual stock portfolios, and manage these portfolios.

## **GUIDANCE DEPARTMENT**

### **Guidance Basics for Freshmen**

#### **Elective Grade 9: One Trimester**

During the first trimester, freshmen meet with a guidance counselor on a weekly basis for one period to enhance and improve understanding of the Academy experience. The process encourages open dialogue regarding student responsibilities, opportunities and pertinent issues. Counselors help students to consider themselves as individuals and as members of various communities and enable them to make good decisions about how to function in those capacities. Our hope is to set a tone for ethical behavior in our community and beyond.

### **Gateway Seminar**

#### **Elective Grade 11: One Trimester**

During the junior year all students must attend, complete and pass this course as preparation for the senior year and the Senior Experience/Internship. Students develop their skills regarding correspondence, resume writing and interviewing relative to their internship and the college process.

### **Senior Experience**

#### **Required: Grade 12: Three Trimesters**

Senior Experience extends the principle of hands-on learning beyond our school walls. Its goal is to establish an interactive learning partnership with the professional community so that students may increase - in depth and scope - their knowledge, skills, and abilities in a selected area of study.

In senior year, each Academy student has the opportunity to select an internship in his/her own particular area of interest. The student's *Senior Experience* is guided by an on-site mentor who is expected to take an active interest in the student's growth and development by guiding the student's learning process. Because this is structured learning experience, a learning plan is developed collaboratively by student and mentor at the beginning of the internship to outline the scope of the internship, including goals and responsibilities.

## **THURSDAY CLUB OFFERINGS**

Participation in clubs is required. In order to accommodate the extracurricular activities listed below, clubs take place one day per week at a designated time during the school day. Instructors advise clubs per student interest. Many clubs meet after school and some require extensive participation in terms of hours. Club offerings listed below may change per student interest and faculty expertise.

### **CLUB OFFERINGS**

Academic Decathlon  
Acting and Improvisation  
American Computer Science League  
American Red Cross  
Art Club: All You Can Make  
Card Club  
Chess Club  
Cinematography Club  
Debate Team  
Dr. Grieco Scholarship Fund  
Engine Design Club  
Environmental Club  
Forensics Club  
French Club  
Future Business Leaders of America  
Go Kart Club  
Introduction to Theater  
Jazz Band  
Latin Dance Club  
Literary Magazine "Spill"  
Making the Band  
Making Music Videos  
Marching Band  
Math League  
Model U.N.  
National Honor Society  
National Spanish Honor Society  
Newspaper "The Academy Voice"  
Physics Club/Care for the Cure  
Ping Pong Club  
Scrabble  
Ski/Snowboard Club  
Stock Market Club  
Student Council  
Tae Kwon Do  
Thinking Games and Puzzles  
Ultimate Frisbee