

# ROSELLE PARK HIGH SCHOOL

HOME OF THE PANTHERS

PROGRAM OF STUDIES  
2018/2019



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ROSELLE PARK, NJ 07204  
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CEEB CODE: 311330

# **ROSELLE PARK HIGH SCHOOL GUIDANCE OFFICE**

All students at Roselle Park High School are assigned a guidance counselor. Students can discuss their ideas, plans, aspirations, and problems with their counselor and receive valuable support, insight, and guidance. Each student's counselor serves as a helpful, caring, knowledgeable resource person who can provide academic, career, and personal counseling.

Parents are encouraged to confer with their child's counselor throughout the school year regarding academic progress, educational/vocational direction, interpretation of test results, and application/admissions procedures for higher education. These plans should begin as early as possible in the student's high school career. The counseling staff may be contacted by calling (908) 241-4550 extension 2059

## **Director of Guidance/Testing**

**Mrs. Susan Carlstrom**

## **Guidance Counselors**

**Mrs. Mary Baumann**

**Mrs. Anna Maria Matarredona**

**Mrs. Ann Moore**

## **ADMINISTRATION**

**Mrs. Ellen Bachert**  
Assistant Principal/Academics

**Mrs. Sarah Costa**  
Principal

**Mr. Richard Suchanski**  
Assistant Principal/Athletics

## **DISTRICT ADMINISTRATION**

**Mr. Pedro Garrido**  
Superintendent of Schools

**Mrs. Susan Guercio**  
Business Administrator/Board Secretary

**Mrs. Marie Mormelo**  
Director of Special Services

**Mr. James Salvo**  
Director of Curriculum/Technology

**Mrs. Fay Lazarides**  
Director of the Academy

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➤ **COURSE ABBREVIATIONS**

AP	-	Advanced Placement
H	-	Honors
CP	-	College Prep
A	-	Academic
B	-	Basic

## **FORWARD**

This Program of Studies Booklet guide has been prepared to familiarize Roselle Park High School's students and their parents with the many course offerings available for the next four years. (Refer to the course offerings on the last pages of this manual.) A careful study and choice from the courses offered are necessary to ensure a successful high school career and transition to college, technical school, the military or work upon graduation. To accomplish this important task, students should seek assistance from their parents, guidance counselors, and from present subject area teachers. Parents are welcome to meet with the counselors in person or by phone

# GENERAL INFORMATION

## REQUIREMENTS FOR GRADUATION FROM ROSELLE PARK HIGH SCHOOL

All Students are required to complete 120 credits in courses designed to meet all of the New Jersey Core Curriculum Content Standards, including but not limited to the following credits:

1. Four years of English – At least 20 credits in language arts literacy.
2. Three years of Mathematics – 15 credits.
3. One year of World History – 5 credits.
4. Two years of United States History – 10 credits.
5. Three years of Science – Including 5 credits of Biology.
6. Four years of Physical Education and 1.25 credits (each) in Health Education, First Aid, and Family Life.
7. One year of World Language – 5 credits.
8. Five credits in Visual and Performing Arts (Art, Music, Theater). Five credits in 21<sup>ST</sup> Century Life and Careers, or Career-Technical Education. 2.5 of these credits are satisfied by the requirement of (1) semester of Computer Applications.
9. 2.5 credits of Financial, Economic, Business, and Entrepreneurial Literacy.
10. Cross-content workplace readiness which may be satisfied through infusion into existing course equivalents, or career education courses.
11. Pass the required state mandated assessments.

## NCAA INITIAL ELIGIBILITY REQUIREMENTS

All Prospective student-athletes who want to play NCAA Division I or II intercollegiate athletics must be certified by the NCAA Clearinghouse to be eligible to play.

If you enroll in a Division I or II college and want to participate in athletics or receive an athletics scholarship, **you must meet the following academic standards:**

- Graduate from high school;
- Complete the 16 core courses listed below; and
- Present a minimum required grade-point average in your core courses.

### **16 Required Core Courses**

- 4 years of English
- 3 years of mathematics, (Algebra 1 or higher level);
- 2 years of natural physical science (one must be a lab science)
- 1 year of additional English, mathematics, or natural/physical science
- 2 years of social science
- 4 years of additional core courses (from any category above, or world language)

Division I has a sliding scale for test scores. **See your counselor for detailed information.** Division II has a minimum SAT score requirement of 820 or an ACT sum score of 68.

## ROSELLE PARK HIGH SCHOOL GRADING

A+	97 - 100
A	90 - 96
B+	87 - 89
B	80 - 86
C+	77 - 79
C	70 - 76
D	65 - 69
F	Below 65

Additional Grades	I	Incomplete*
	H	Medical
	R	Administrative Removal
	M	Withdraw Fail
	L	Withdraw Passing
	G	Withdrew

Final Grades in a **full year course** are determined by calculating 80% of the average of the numerical grades from each of the marking periods and adding the mid-term Exam 10% equivalent and Final Exam 10% equivalent.

Example:	Average of the 4 marking periods	80%
	Mid-term Exam	10%
	Final Exam	10%
	Final Grade	Combination

Final Grades in **semester courses** are determined by calculating 85% of the average of the numerical grades from each of the marking periods and adding the Final Exam 15% equivalent.

	Average of the 2 marking periods	85%
	Final Exam Grade	15%
	Final Grade	Combination

\*Unless special circumstances apply and prior approval for delay is granted by the administration, grades given as an "I" (incomplete) MUST be made up within 10 school days of the close of the marking period. Failure to do so will result in a grade of "F".

## COURSE SELECTIONS

1. The selection of courses for each year should represent the result of serious consideration by the student, parents/guardian, and his/her counselor.
2. The selection of honors and advanced placement courses require teacher recommendation and the meeting of academic and departmental criteria based on previous grades and standardized assessment results.
3. The selection will be the final choice of subjects to be taken during the next school year. Any changes to a student's schedule must be completed before the first day of school.
4. All courses listed may not be offered each year.

## GOLD TASSEL REQUIREMENTS

### AP AND HONORS COURSES

- \*Final grade of C or better must be obtained in all subjects completed in junior and senior year.
- \*Cannot receive a grade of D or F in any marking period.

### CP AND ACADEMIC COURSES

- \*Final grade of B or better obtained in all subjects completed in junior and senior year.
- \*Cannot receive a grade of D or F in any marking period.
- \*Cannot have more than two C's in same subject in a yearly course.
- \*Cannot have more than one C in same subject in a half-year course.

At the end of the third marking period of the senior year, a tentative list will be compiled indicating those students who have the possibility of qualifying for a gold tassel. From this list only senior final grades will be checked to determine the required grade at the end of the fourth marking period. There will be no exceptions. All graduating students will be subject to the criteria listed above.

## ADVANCED PLACEMENT AND HONORS COURSES

AP Biology  
AP Calculus AB  
AP Chemistry  
AP English 4  
AP French  
AP Spanish  
AP US History II  
English 1-4 H  
Physics H  
Algebra 1 H  
Geometry H  
Algebra 2 H

Pre-Calculus H  
Calculus H  
Spanish 4 H  
French 4 H  
Earth Science H  
Biology H  
Chemistry H  
World History H  
US History 1 H  
European History H  
Accounting 2 H

# **BUSINESS EDUCATION**

## **ACCOUNTING 1 (CP)** (Grades 10-12)

**2.5 credits**

Accounting 1 prepares the student to keep complete records for a business concern, to develop a better understanding of business activities, and to familiarize students with the accounting forms commonly used in business transactions. Students are taught the principles of double-entry accounting and to perform daily accounting activities required in the average business office. This course is recommended for students interested in receiving entry-level employment skills or those planning to enter the fields of accounting or business administration at an institute of higher education.

## **ACCOUNTING 2 (H)** (Prerequisite: Accounting 1) (Grades 11 & 12)

**5 credits**

This advanced course further develops the principles learned in Accounting 1 and then offers training for adjustments and solving special accounting problems for proprietorships, partnerships and corporations for service and merchandising businesses. In addition, training for promissory notes, accrued revenue and expenses, distribution on dividends and corporate financial statements will be explored. Students will demonstrate accounting procedures using a computerized accounting system. This course is recommended for students interested in a business career and those who are planning to enter the fields of accounting or business administration at an institute of higher learning.

## **APPLIED ECONOMICS (CP)** (Prerequisite: Business Management Applications) (Grades 11 & 12)

**2.5 credits**

Applied Economics is a multimedia introduction to economics that focuses on supply and demand, prices, money, inflation, depression, foreign trade, taxes and the role of government. Students will have the opportunity to actually run a business corporation by planning, producing, and selling a product. A business consultant from a local corporation will provide advice to the student enterprise. Students will also have access to computer-assisted programs to help them make important business decisions and understand the discipline of economics.

## **INTRODUCTION TO BUSINESS (A)** (Grades 10-12)

**2.5 credits**

This course is an introduction to how businesses are organized and function in today's society. Students will work both individually and in groups discovering the many facets of running successful companies/small businesses. Computers and group projects will be incorporated.

## **BUSINESS TECHNOLOGY (A)** (Grades 10-12)

**2.5 credits**

Using the internet as a textbook, students will learn various current aspects of business from the Federal Reserve to entrepreneurship. Current event topics, web-quests and corporate site exploration will provide vital information for student learning. Web site navigation and using search engines properly will assist students in utilizing the internet as a key educational instrument.

## **INTRODUCTION TO OFFICE 365/CODING (A)**

**2.5 credits**

This course is required for all students and those new to the district. The student will learn about computer parts and operations. Students will be introduced to the history and development of the modern computer, as well as careers using computers. Students are introduced to word processing, spreadsheets, databases, charting and graphics using the most popular computer programs available.

## **PERSONAL FINANCE (A)** (Grades 10-12)

**2.5 credits**

By alerting the student to the problems and needs in our economic system, the student develops an understanding of general socio-economic conditions and is made to understand the consumer's place in our society. The student becomes acquainted with credit options, consumer protection agencies, consumer economics, personal finance, the effect of price changes, the need for insurance, the social problems of the buyer, and the practical aspects of buying goods. This class is ideal for all students regardless of their future plans, as everyone is a consumer. Required of all students beginning with the class of 2014.

## **INFORMATION PROCESSING (A)** (Prerequisite: Computer Applications) (Grades 10-12)

**2.5 credits**

Using the most popular business application programs, students are taught advanced skills using spreadsheets, databases, and presentation programs. Students develop competency with formula, sorting, editing, charting, formatting and multi-media presentations. Students will also utilize the Internet to aid in researching information. This course is beneficial to all students, regardless of their future educational plans.

**MARKETING EDUCATION 1 (A)** (Grades 11 & 12)

**2.5 credits**

This course serves as an introductory marketing course and as a prerequisite for Marketing 2. It is also a survey course that provides an overview of career preparation. This course is designed around the four commonly accepted competency areas identified in the Marketing Education National Curriculum Framework. These areas include basic marketing functions, human resource foundations, marketing and business foundations and economic foundations. Topics covered include advertising and promotion, product/service planning, pricing, selling, and distribution. Specific instruction in occupational skills such as employment applications, job resumes, job interview skills and follow-up is provided. Students will also work at the school store and be trained in retail operations. Field trip experiences are provided to enhance subject matter.

**MARKETING EDUCATION 2 (A)** (Prerequisite: Marketing Education 1) (Grade 12)

**5 credits**

For junior and senior students who have completed the prerequisite Marketing 1. Instruction will cover career exploration and preparation in the marketing occupations. Topics covered are appearance, concepts, attitudes, civic awareness and responsibilities, communication skills, decision making, safety, economics, marketing, education and training, employer-employee relations, human relationships, interests, life-style goals, money management, occupational information, personality development, self-improvement skills and advancement on the job. Students also manage and work at the school store. Field trip experiences are provided to enhance the subject matter.

**MARKETING EDUCATION WORK STUDY (A)** (Prerequisite: Marketing Education 1) (Grade 12)

**10 credits**

A cooperative work experience program in the marketing occupations at neighboring businesses is provided during the school day, afternoons and/or evenings and weekends. It is operated in conjunction with the Marketing Education 2 class. This is a full-year course, which requires the student to work an average of at least 15 supervised hours per week for a total of 540 hours for the entire school year.

Experiences encountered by the students at their workstations are a focal point of the program. A student enrolling in this course must have the permission of the Marketing Education Coordinator.

**PERSONAL LAW 1 (CP)** (Grades 9-12)

**2.5 credits**

Law can fulfill its role of governing only if society understands that role. This course is aimed at bridging the gap between the law and the individual. The student will explore the development of law and our system of justice. The student will gain knowledge of his/her rights and obligations regarding the criminal justice system. In addition, he/she will explore the law's role in common business transactions (contracts, agreements, warranties, sales, negotiable instruments and insurance.) Attention will be directed to the law as it applies to property and family matters. The law affects everyone; therefore, this course is recommended for all students.

**PERSONAL LAW 2 (CP)** (Prerequisite: Personal Law 1) (Grades 9-12)

**2.5 credits**

Law can fulfill its role of governing if society understands that role. This course is aimed at bridging the gap between the law and the individual. The student will explore the development of law and our system of justice. The student will gain knowledge of his rights and obligations. Attention will be directed to the law as it applies to property and wills and to marriage and the family. The law affects everyone; therefore, this course is recommended for all students.



# LANGUAGE ARTS

**NOTE:** The English Department provides a diversified program that prepares students for post-high school education or individual careers. The fundamentals of reading, writing, vocabulary, research skills, and grammar are stressed throughout each track of English. The student and parent/guardian should be cognizant of his/her individual educational goals and needs when selecting the program for English studies. Generally speaking, English classes are grouped homogeneously, except for electives. Any student who demonstrates ability and industry may be moved to a more challenging level by the recommendation of the classroom teacher.

The research paper process is taught in the earlier grades, and reinforced in Grade 9. A full-process research paper is required of students in grades 9-12. Specific requirements for each level are available in the department style manual.

All courses incorporate the New Jersey Core Curriculum Standards for Language Arts Literacy.

## **ENGLISH 1 (H)**

(Prerequisite: A in English 8CP, B+ or higher in English 8H, Advanced Proficient on PARCC, and Teacher Recommendation)

**5 credits**

The emphasis of this course is for students to become independent thinkers, readers, and writers. Students will further advance their grammar, vocabulary, and spelling skills. The different genres are explored including drama, poetry, short stories, and novels. Outside reading is required at all times during the year and will culminate in a formal written analysis. Literature will serve as a basis for the development of research skills and successful completion of the research paper.

## **ENGLISH 1 (CP)**

**5 credits**

This course explores the different genres, including poetry, short stories, novels, and dramas. All reading will culminate in a formal written essay. Vocabulary, spelling, and grammar are reviewed extensively. Independent research and successful completion of a research paper are required.

## **ENGLISH 1 (A)**

**5 credits**

This course explores the different genres, including poetry, short stories, novels, and dramas. All reading will culminate in a formal written essay. Vocabulary, spelling, and grammar are reviewed extensively. Independent research and successful completion of a research paper is required.

## **ENGLISH 2 (H)**

(Prerequisite: A in English 1 CP, B+ or higher in English 1H, Advanced Proficient on Standardized Test and Teacher Recommendation)

**5 credits**

English 2 Honors focuses on a thorough study of grammar, vocabulary, literature, and composition and the writing process. Each writing assignment is based on a selection of American Literature read and discussed during this course. A comprehensive study of Julius Caesar is also an integral unit in this class. The outside reading in this course is challenging for students, and every book read demands extensive literary analysis. The research paper requires a thorough study of a poet and his/her poetry. All units of study prepare students for the PSAT and PARCC.

## **ENGLISH 2 (CP)**

**5 credits**

Students in English 2 CP will continue to explore the fundamentals of the English language. Students will prepare for PARCC as well as study grammar, vocabulary, composition, literary devices and figures of speech. A biographical research paper is required in this class. Students are also required to read Julius Caesar. Students will cover various genres of literature including American Literature, Contemporary Literature, and Multicultural Literature.

## **ENGLISH 2 (A)**

**5 credits**

Students in English 2 will continue to explore the fundamentals of the English language. Students will prepare for PARCC as well as study grammar, vocabulary, composition, literary devices and figures of speech. A biographical research paper is required in this class. Students are also required to read Julius Caesar. Students will cover various genres of literature including American Literature, Contemporary Literature, and Multicultural Literature.

**ENGLISH 3 (H)****5 credits**

(Prerequisite: A in English 2 CP, B+ or higher English 2H and Teacher Recommendation)

English 3 Honors provides a review of all communication skills that were taught in previous courses. Although the study of grammar is not the main focus of the course, grammatical instruction is offered in preparation for the SAT Subject writing. An extensive review prior to PARCC will be offered. Writing assignments correlate with the study of American literature. Students will be afforded the opportunity to compare and contrast American authors and to study literary works in their historical context. Writing assignments are frequent and varied; students are required to consult outside sources when preparing their papers. One college research paper will be required. Students will research three colleges as the focus of this research paper. This course is designed to assess critical reading skills, oral and written fluency, and interpretation and assimilation of major American literary works.

**ENGLISH 3 (CP)****5 credits**

The objective of this course is to provide students with a thorough preparation for college, enhance critical reading skills, expand vocabulary, and improve written expression. The curriculum affords students the opportunity to read major works in American Literature and to study these works in their historical context. An essay or major writing assignment is presented after the completion of each literary work. Prior to PARCC, an extensive review will be given. A research paper is required.

**ENGLISH 3 (A)** (Prerequisite: Teacher Recommendation)**5 credits**

English 3 Standard begins with a review of literary concepts and applications. Students will then study a range of American literature to get a survey understanding of the development of the American author.

**ADVANCED PLACEMENT ENGLISH 4 (AP)****5 credits**

(Prerequisite: A in English 3CP, B+ or higher in English 3H, completion of AP diagnostic test, and Teacher Recommendation).

In order for a course to be weighted as AP status, the student is required to take the AP exam.

English 4 AP begins with a review of basic grammar and literary concepts. Students will then move through literature beginning with an introduction of global religions, moving through Shakespeare and ending with the Post-Modern Era. Concurrently, students will prepare for the Advanced Placement exam which takes place in early May. This is an intense English course operating on the collegiate level.

**ENGLISH 4 (H)****5 credits**

(Prerequisite: A in English 3 CP, B+ average or higher in English 3H, and Teacher Recommendation)

English 4 Honors begins with a review of basic grammar and literary concepts. Students will then move through literature beginning with an introduction of global religions, moving through Shakespeare and ending with the Post-Modern Era.

**ENGLISH 4 (CP)****5 credits**

English 4 CP is an extension of the curriculum studied by the college bound students. After a review of the five expository types of writing, additional forms are explored and more sophisticated argumentation is expected. The course is also a survey of British Literature and all works read results in written analysis. A research paper discussing a specific era of British Literature will be required. Students will be expected to complete a summer reading assignment before entering this course.

**ENGLISH 4 (A)** (Prerequisite: Teacher Recommendation)**5 credits**

English 4 includes a review of all areas of grammar, spelling, vocabulary, and composition. Students are exposed to a variety of literary selections from numerous literary genres. Special emphasis is placed on the literary skills that will enable students to be effective communicators in their future employment. Teachers will continue to attempt to create lifelong readers through exposure to high interest literature. A research paper discussing a controversial issue will be required. Students will be expected to complete a summer reading assignment before entering this course.

**WRITING WORKSHOP (B)** (Grades 9-11)**2.5 credits**

Students who scored below the proficient level on the PARCC Assessment are placed in this semester class along with their regular language arts assignment. Students are provided intensive instruction through lessons in grammar, composition, editing, and guided reading. Interesting and critical reading passages that model the structure and length of those used on the PARCC become the regular focus for student interpretation. Students are afforded the opportunity to improve writing skills through frequent and varied assignments, peer editing, and conferences with instructor.

**CREATIVE WRITING FOR PERFORMANCE RPTV CLASS (CP)**  
(Prerequisite: Audition and teacher recommendations for 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grader)

**5 credits**

This course provides practical and laboratory experience in all aspects of TV production. Students write, produce and edit a daily, live broadcast that is aired throughout the school and on Cable Station Channel 34. These students are divided into two groups: anchors/writers and technical crew. Each group will have set requirements to meet for every marking period. The curriculum is designed to build valuable communication skills, career awareness and knowledge of creative input in various stages of production. Students will be working with digital and linear equipment: video cameras, still cameras, microphones, editing equipment, etc. Due to the cooperative nature of the class and the equipment that will be used, students must demonstrate a high level of responsibility. Auditions for this class are required.

**EXPOSITORY WRITING (CP)** (Grades 11 & 12)  
(Grade of C+ or higher in current English class)

**2.5 credits**

Expository Writing focuses on an expansion of knowledge of grammar, mechanics, usage, and sentence structure throughout the course. A unit on reading comprehension to prepare students for the PARCC will be stressed. Students will integrate the stages of the writing process as they learn about each element of expository process writing including: the five-paragraph essay, critical response to expository text, composing text in sequence, comparison and contrast composition, cause and effect composition, problem and solution composition, and a final portfolio. Students will master elements of prewriting, drafting, revising, and editing.

**CREATIVE WRITING (CP)** (Grades 10-12)  
(Grade of C+ or higher in current English class)

**2.5 credits**

Creative Writing students will begin the course with an examination of global short fiction to give perspective to their own writings. The course will then progress to an open workshop course where students will be encouraged to write in a variety of prompts and have their products critiqued by the class as a whole.

**POETRY (CP)** (Grades 10-12)  
(Prerequisites: Grade of C+ or higher in current English class)

**2.5 credits**

Poetry students will examine different eras of poetry, ranging from the Classical Period through to the Modern Period. After each examination, students will compose a piece of personal writing which will mirror the era examined in class. At the end of the course, students will have an understanding of the motivations behind each time period and the meaning applied to poems.

**SHAKESPEARE (CP)** (Grades 11& 12)  
(Prerequisites: Grade of C+ or higher in current English class)

**2.5 credits**

A thorough study of several of Shakespeare's plays acquaints students with the versatility and universality of the playwright. The course includes several plays, several films, and discussion of the literary and theatrical techniques of Elizabethan drama. The objectives of the course are to learn a critical approach to the reading of dramatic literature and to demonstrate the techniques of literary criticism in controlled, persuasive essays, to gain insights into Elizabethan language and the relationship of that language to contemporary English, to place Shakespeare in a historical perspective and to relate him and the plays to the contemporary world, to appreciate Shakespeare's plays not only as literature but as theatre, and to learn about staging a Shakespearean play. Topics will include: Shakespeare's life, Shakespeare's "Last Will and Testament," and some of the following: *Othello*, *King Lear*, *Antony and Cleopatra*, *Measure for Measure*, *Twelfth Night*, *Merchant of Venice*, *A Midsummer Night's Dream*, and a Shakespearean comedy or history of choice.

**PUBLIC SPEAKING (S)** (Grades 11 & 12)

**2.5 credits**

Public Speaking is a semester course for students who plan to enter a profession in which the ability to speak well is of major importance. Students electing this course will have a greater competence and confidence in the preparation and delivery of oral presentations. This course is recommended for students planning to continue their education at the college level.

**SAT PREP (CP)** (Grade 11)

**2.5 credits**

This class is designed to prepare students for the SAT. This course will teach students the format of the test and provide both strategies and practice for questions on critical reading, sentence completion, grammar, usage, and writing. In addition to reviewing topics from pre-algebra, algebra, and geometry, students will become familiar with the format of the test and learn strategies. This course will also include a discussion of the effective use of a graphing calculator. Much time will be devoted to practice problems similar to those on the SAT.

# MATHEMATICS

All students are required to take three years of Math (15 credits). The majority of students will take Algebra 1 in grade 9, Geometry in grade 10 and Algebra 2 in grade 11. Students who completed Algebra 1 in grade 8 will take Geometry in grade 9, Algebra 2 in grade 10, Pre-Calculus in grade 11 and Calculus in grade 12. Students will have the opportunity to take Advanced Placement Calculus AB in grade 12. In addition, elective courses are offered to students in grades 11 and 12.

## ALGEBRA 1 (CP) (Prerequisite: Teacher Recommendation)

**5 credits**

Algebra 1 CP provides a foundation in the properties of the real number system and their application to the solution of equations. Emphasis will be placed on problem solving.

## ALGEBRA 1A (A) (Prerequisite: Partially Proficient on PARCC and Teacher Recommendation)

**5 credits**

Algebra 1A is the first part in a multi-part sequence of Algebra 1. This course provides the same topics as the first semester of Algebra 1, including the study of properties of rational numbers, ratio, proportions, and estimation, exponents, and radicals, the rectangular coordinate system, sets, logic, formulas, and solving first degree equations and inequalities.

## ALGEBRA 1B (A) (Prerequisite: Partially Proficient on PARCC and Teacher Recommendation)

**5 credits**

Algebra 1B is part two of the two-year Algebra course designed to teach students basic Algebra skills. This course will include detailed instruction on exponents, polynomials, solving quadratic equations and other Algebra 1 topics.

## GEOMETRY (H) (Prerequisite: Algebra 1 Honors or Approval of Administration)

**5 credits**

Geometry Honors provides students with the opportunity to further develop reasoning and problem solving skills. This will be accomplished by studying topics such as congruence and similarity, and by applying properties of lines, triangles, quadrilaterals and circles. Students will also develop problem solving skills by using length, perimeter, area, circumference, surface area and volume to solve real-world problems.

## GEOMETRY (CP) (Prerequisite: Algebra 1)

**5 credits**

Geometry CP provides students with the opportunity to further develop reasoning and problem solving skills. This will be accomplished by studying topics such as congruence and similarity, and by applying properties of lines, triangles, quadrilaterals and circles. Students will use these problem solving skills to solve real-world problems, such as finding and using length, perimeter, area, circumference, surface area, and volume.

## GEOMETRY WITH SUPPORT (A)

**5 credits**

(Prerequisite: Algebra 1 and Partially Proficient on PARCC and Teacher Recommendation)

Geometry with Support provides students with the opportunity to further develop reasoning and problem solving skills. This will be accomplished by studying topics such as congruence and similarity, and by applying properties of lines, triangles, quadrilaterals and circles. Students will use these problem-solving skills to solve real-world problems, such as finding and using length, perimeter, area, circumference, surface area, and volume.

## ALGEBRA 2 (H)

**5 credits**

(Prerequisite: Geometry Honors, Sci Tech Prep, or teacher recommendation and the approval of Administration)

Algebra 2 Honors provides students with the opportunity to explore the following topics: linear, quadratic, exponential and logarithmic functions. Students will also study analytic geometry as well as matrices and determinants. Emphasis will be placed on developing facility in algebraic operations, solving problems and graphing functions.

## ALGEBRA 2 (CP) (Prerequisite: Geometry)

**5 credits**

Algebra 2 CP provides students with the opportunity to explore linear, quadratic, exponential, and logarithmic functions. Emphasis will be placed on developing facility in algebraic operations, solving problems and graphing functions.

## ALGEBRA 2 (A) (Prerequisite: Geometry)

**5 credits**

Algebra 2 Academic provides students with the opportunity to explore the same topics studied in Algebra 2 CP at a slower pace. The goal of this course is to strengthen students' basic algebra skills through embedded review.

**PRE-CALCULUS (H)**

(Prerequisite: Honors Algebra 2 and Teacher Recommendation)

**5 credits**

Pre-Calculus Honors provides a strong foundation of Pre-Calculus concepts, techniques, and applications to prepare students for more advanced work in mathematics. Major units will include the study of functions, graphs, and their applications, as well as trigonometry, and an introduction to limits. Students are given practice in modeling real-life situations using polynomial, exponential, logarithmic, and trigonometric functions. Connections among mathematical topics, especially algebra and geometry, are discussed and used to solve problems throughout.

**PRE-CALCULUS (CP)** (Prerequisite: Algebra 2 and Teacher Recommendation)**5 credits**

Pre-Calculus CP will prepare students for college level mathematics. It provides a foundation of Pre-Calculus concepts, techniques, and applications to prepare students for more advanced work in mathematics. Connections among mathematical topics, especially algebra and geometry, are discussed and used to solve problems throughout. Pre-Calculus CP is designed for students who require a less rigorous, slower paced course than Pre-Calculus Honors.

**PRE-CALCULUS (A)** (Prerequisite: Algebra 2)**5 credits**

Pre-Calculus Academic will introduce students to college level mathematics. It provides an introduction to pre-calculus concepts, techniques, and applications.

**ADVANCED PLACEMENT CALCULUS AB (AP)****5 credits**

(Prerequisite: Honors Pre-Calculus and Teacher Recommendation) In order for a course to be weighted as AP status, the student is required to take the AP exam.

Advanced Placement Calculus AB is the equivalent of the first semester of a college-calculus course. The curriculum for the advanced placement calculus (AB) will be followed. Study is made of limits, continuity, functions, differentiation, integration and applications. Students enrolled in this class will take the Advanced Placement (AP) test in May. A passing score on the AP test may result in the acquisition of college credit.

**CALCULUS (H)** (Prerequisite: Pre-Calculus and Teacher Recommendation)**5 credits**

Calculus Honors will provide students with the opportunity to study limits, continuity, functions, differentiation, and integration. They will explore the application of these topics. This course is designed for students who require a less rigorous, slower paced course than Advanced Placement Calculus.

**AP STATISTICS (AP)****5 credits**

Following the College Board's suggested curriculum designed to parallel college-level statistics courses. AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring data, sampling and experimentation, anticipating patterns, and statistical inference.

**MATHEMATICAL PROBLEM SOLVING 9 (MPS 9) (B)** (Grade 9)**2.5 credits**

This semester course is designed as a requirement for those students in Grade 9 who have not achieved proficiency on the PARCC assessment. The curriculum will include the four major cluster areas: Number & Numerical Operations, Geometry & Measurement, Patterns & Algebra and Data Analysis, Probability & Discrete Mathematics. Problem solving strategies will be emphasized.

**MATHEMATICAL PROBLEM SOLVING 10 (MPS 10) (B)** (Grade 10)**2.5 credits**

This semester course is designed as a requirement for those students in Grade 10 who have not achieved proficiency on the grade level standardized math test. The curriculum will include the four major cluster areas: Number & Numerical Operations, Geometry & Measurement, Patterns & Algebra and Data Analysis, Probability & Discrete Mathematics. Problem solving strategies will be emphasized. MPS 2 is designed to enhance the mathematical skills of students who have been identified as "at risk" for demonstrating proficiency on the PARCC assessment that is required for graduation.

**MATHEMATICAL PROBLEM SOLVING 11 (MPS 11) (B)** (Grade 11)**2.5 credits**

This course is designed as a requirement for those students in Grade 11 who have not achieved proficiency on the grade level standardized math test. The curriculum will include the four major cluster areas: Number & Numerical Operations, Geometry & Measurement, Patterns & Algebra and Data Analysis, Probability & Discrete Mathematics. Problem solving strategies will be emphasized. MPS 3 is designed to enhance the mathematical skills of students who have been identified as "at risk" for demonstrating proficiency on the PARCC assessment that is required for graduation. This course will also include an intensive review of all the math topics covered on the SAT and the NJ Basic Skills Placement Test (NJBSPT). The NJBSPT is mandated by the state of NJ at all two-year and four-year colleges. The curriculum will provide the students with test taking strategies that are unique to each type of test.

**JR SAT PREP (CP) (Grade 11)**

**2.5 credits**

This class is designed to prepare students for the SAT. This course will teach students the format of the test and provide both strategies and practice for questions on critical reading, sentence completion, grammar, usage, and writing. In addition to reviewing topics from pre-algebra, algebra, and geometry, students will become familiar with the format of the test and learn strategies. This course will also include a discussion of the effective use of a graphing calculator. Much time will be devoted to practice problems similar to those on the SAT.

**STATISTICS (CP) (Prerequisite: Algebra 2 or Pre-Calculus)**

**2.5 credits**

Statistics CP provides students with the opportunity to deal with many facets of data analysis. Topics may include but are not limited to descriptive statistics, probability, normal and binomial probability distributions, central limit theorem, and inferential statistics. Students will work with real-world data to study examples in Applied Mathematics, Economics, Combinatorics, as well as other fields. Students will work with Excel and spreadsheet programs in order to prepare for college level data organization. Statistics is a one-semester course. This is an elective course which does not count towards the high school graduation for math.

**INTRODUCTION TO COMPUTER SCIENCE (CP)**

**2.5 credits**

Visual Basic is a computer language that can create almost any program, from a custom web browser to a tip calculator. The class will consist of mini projects that students will complete. Each new project will be slightly more complex. Students will have instruction from the teacher, as well as time to research on their own. The class will learn from each other, the teacher, the Internet, and the program itself through trial and error. Visual Basic is a one semester course. This is an elective course which does not count towards the high school graduation requirement for math.

# **PHYSICAL EDUCATION** **AND** **HEALTH**

## **PHYSICAL EDUCATION (A)**

**3.75 credits**

Physical education is offered in grades nine through twelve with students required to pass this course during each year of enrollment.

Physical education will provide a program that deals with the total body concept of education by developing the physical, emotional and intellectual state of the individual. This will be accomplished through a wide spectrum of physical activities such as individual and team activities, competitive and cooperative activities, lifetime recreation pursuits and personal fitness activities. By experiencing these activities, the student will acquire habits necessary to promote total wellness as a life long process.

## **HEALTH (A)**

**1.25 credits**

Health is offered in ninth grade for one marking period. Each ninth grade student is required to pass this course for graduation.

This course involves instruction in personal health, growth and development, mental and emotional health, community and environmental health, family life education, substance abuse, disease prevention and control and immunodeficiency virus (HIV) infection.

## **DRIVER EDUCATION THEORY (A)**

**1.25 credits**

Driver Education Theory is offered in the 10<sup>th</sup> grade for one marking period.

This course fulfills the requirement of 30 hours of classroom instruction. Driver Education Theory will promote an understanding that driving is a privilege, develop an understanding of motor vehicle laws, understand licensing procedures in New Jersey and learn the importance of driving a safe vehicle. In addition to Driver Education Theory other subject matter includes family life education, substance abuse, disease prevention and control and immunodeficiency virus (HIV) infection.

## **FIRST AID AND SAFETY (A)**

**1.25 credits**

First Aid and Safety is offered in the 11<sup>th</sup> grade for one marking period. Each student is required to pass this course for graduation.

This course is a study in first aid and C.P.R. subjects, which include rescue breathing, C.P.R. and obstructed airway management. The students who meet the requirements receive the American Red Cross certification.

## **FAMILY LIFE (A)**

**1.25 credits**

Family Life is offered in the 12<sup>th</sup> grade for one marking period. Each student is required to pass this course in order to graduate. This course includes instruction in personal health, growth and development, mental and emotional health, accident prevention and safety, family life education, substance abuse, disease prevention and control and human immunodeficiency virus (HIV) infection.

# SCIENCE

All students are required to take three years of Science (15 credits). The majority of students will take Earth Science in grade 9, Biology in grade 10 and Chemistry in grade 11. Students on the honors track will take Biology Honors 9, Chemistry Honors 10 and Physics Honors in grade 11. Students will have the opportunity to take Advanced Placement Biology and/or Advanced Placement Chemistry in grades 11 or 12. In addition, Forensics, Environmental Science, and Anatomy and Physiology are offered as electives to students in grades 11 and 12.

## EARTH SCIENCE (H)

**5 credits**

Earth Science H is a laboratory science designed to develop an understanding and appreciation of the Earth and its place in the universe. Units of study will include astronomy, paleontology, geology, oceanography, meteorology, and climatology. In an attempt to prepare students for subsequent science courses, additional focus will be placed on the scientific method. Students will be provided with the opportunity to develop communication skills within the context of science. The concepts presented may be applied toward a better understanding of problems and/or advances made in the fields of environmental studies, Energy, material science and technology. Laboratory investigations, hands-on activities, lectures, audio-visual enrichment and demonstrations are included.

## EARTH SCIENCE (CP)

**5 credits**

Earth Science CP is a laboratory science designed to develop an understanding and appreciation of the Earth and its place in the universe. Units of study will include astronomy, paleontology, geology, oceanography, meteorology, and climatology. In an attempt to prepare students for subsequent science courses, additional focus will be placed on the scientific method. Students will be provided with the opportunity to develop communication skills within the context of science. The concepts presented may be applied toward a better understanding of problems and/or advances made in the fields of environmental studies, energy, material science and technology. Laboratory investigations, hands-on activities, lectures, audio-visual enrichment and demonstrations are included.

## EARTH SCIENCE (A) (Prerequisite: Teacher Recommendation)

**5 credits**

Earth Science Academic is a laboratory science designed to give students a basic understanding and appreciation of the nature of the Earth and its place in the universe. The scientific study will include astronomy, paleontology, geology, oceanography, meteorology, and climatology. The curriculum will illustrate the fundamental relationships of biology and chemistry. The concepts presented will be applied toward better understanding of problems and advances made in the fields of environmental studies, energy, material science and technology. Laboratory investigations, hands-on activities, lectures, audio-visual enrichment and demonstrations are included. Basic reading, verbal and science skills will be emphasized throughout the year.

## ADVANCED PLACEMENT BIOLOGY (AP)

**5 credits**

(Prerequisite: A average in Biology CP or B or higher in Biology H and Teacher Recommendation. Enrollment preference given to students who have completed Chemistry or who are currently enrolled in Chemistry.) In order for a course to be weighted as AP status, the student is required to take the AP exam.

The Advanced Placement Biology course is a second year biology program designed primarily for the science-oriented, college-bound student. This rigorous course uses college freshman materials and as a result, students enrolling in it should have a strong biology background as well as exposure to chemistry. The course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. A lab approach method of instruction is stressed. Three general areas will be covered: Molecules and Cells; Heredity and Evolution; and Organisms and Populations. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. The continuing information explosion in biology makes these goals even more challenging. Primary emphasis in the course will be on developing an understanding of concepts rather than memorizing terms and technical details. Essential to this conceptual understanding are the following: a grasp of science as a process rather than an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology, an application of biological knowledge and critical thinking to environmental and social concerns. Students enrolled in this class will take the Advanced Placement (AP) test in May. A passing score on the AP test may result in the acquisition of college credits.

## BIOLOGY (H) (Prerequisite: Honors Science or Teacher Recommendation) (Grades 9 or 10)

**5 credits**

The biology program is a full-year course of studies in life science. A lab approach method of instruction is stressed. The course begins with a discussion of the unique properties of live organisms that set them apart from the nonliving. This presentation followed by a study of molecular and cellular biology, which provide a background for the concepts of reproduction and genetics. Units dealing with microbiology, multicellular plants, invertebrate and vertebrate animal life as well as human biology follows in logical sequence. An overview of the relationships between organisms and their physical environments is included. Scientific methods, both technical and research that scientists use as well as methods the students will need to use in all subsequent science subjects are stressed. Students are also provided with the opportunity for the development of communication skills within the context of science. The concepts presented are often applied toward better understanding of problems and/or advances made in the fields of environmental studies, energy, material science and technology. Laboratory investigations, lectures, audio-visual presentations and demonstrations are included. Topics are covered in greater depth than in any other level of this program, with more independent and outside research conducted by students.



**BIOLOGY (CP)****5 credits**

The biology program is a full-year course of studies in life science. A lab approach method of instruction is stressed. The course begins with a discussion of the unique properties of live organisms that set them apart from the nonliving. This presentation followed by a study of molecular and cellular biology, which provide a background for the concepts of reproduction and genetics. Units dealing with microbiology, multicellular plants, invertebrate and vertebrate animal life as well as human biology follows in logical sequence. An overview of the relationships between organisms and their physical environments is included. Scientific methods, both technical and research that scientists use as well as methods the students will need to use in all subsequent science subjects are stressed. Students are also provided with the opportunity for the development of communication skills within the context of science. The concepts presented are often applied toward better understanding of problems and/or advances made in the fields of environmental studies, energy, material science and technology. Laboratory investigations, lectures, audio-visual presentations and demonstrations are included.

**BIOLOGY (A)** (Prerequisite: Test Scores and Teacher Recommendation)**5 credits**

The biology program is a full-year course of studies in life science. A lab approach method of instruction is stressed in all topics. The course begins with a discussion of the unique properties of living organisms that set them apart from the nonliving. This presentation is followed by a study of molecular and cellular biology, which provide a background for the concepts of reproduction and genetics. Units dealing with microbiology, multicellular plants, invertebrate and vertebrate animal life as well as human biology follows in logical sequence. An overview of the relationships between organisms and their physical environments is included. Scientific methods, both technical and research, that scientists use, as well as methods the student will need to use in all subsequent science subjects are stressed. Students are also provided with the opportunity for the development of communication skills within the context of science. The concepts presented are often applied toward better understanding of problems and/or advances made in the fields of environmental studies, energy, material science and technology. Laboratory investigations, lectures, audio-visual computer presentations and demonstrations are included.

**ADVANCED PLACEMENT CHEMISTRY (AP)****5 credits**

(Prerequisite: A average in Chemistry CP; B average or higher in Chemistry H; concurrent registration in pre-calculus or calculus; and Teacher Recommendation. Enrollment preference given to students who have completed Physics or are currently enrolled in Physics. In order for the course to be weighted as AP status, the student is required to take the AP exam.)

The AP chemistry course is the equivalent of the first year of college level chemistry for science majors. Students will investigate atomic theory, chemical bonding, gas laws, solids, liquids, solutions, reaction types, stoichiometry, equilibrium, kinetics, thermodynamics, nuclear chemistry, and periodic trends. One extended period is scheduled each week during which students are engaged in hands-on laboratories. Emphasis is placed on the qualitative and quantitative analysis of the changes that substances undergo in chemical reactions. The concepts presented are applied toward better understanding of the advancements being made in the fields of environmental engineering, energy transfer, material science, bioengineering, and nanotechnology. Students enrolled in this class must complete assignments during the summer months prior to the start of this course. Students are required to take the Advanced Placement (AP) exam in May. A passing score on the AP test may result in earning college credit.

**CHEMISTRY (H)****5 credits**

(Prerequisite: A average in Biology CP; B average or higher in Biology H; enrollment in Sci Tech Prep; concurrent registration in pre-calculus or Algebra II Honors; and Teacher Recommendation.)

The honors chemistry course is a full year course of studies. Emphasis is placed on the study of the composition, structure, and properties of matter, the processes that matter undergoes, and the energy changes that accompany these processes. Students will investigate atomic theory, chemical bonding, gas laws, solids, liquids, solutions, reaction types, stoichiometry, acid-base reactions, thermodynamics, and periodic trends. One extended period is scheduled each week during which students are engaged in hands-on laboratories. Emphasis is placed on the qualitative and quantitative analysis of the changes that substances undergo in chemical reactions. The concepts presented are applied toward better understanding of the advancements being made in the fields of environmental engineering, energy transfer, material science, bioengineering, and nanotechnology. The development of proper communication skills within the context of science is stressed. Students enrolled in this class must complete assignments during the summer months prior to the start of this course.

**CHEMISTRY (CP)****5 credits**

(Prerequisite: Successful completion of Biology CP; concurrent registration in Algebra II or a higher math level; and Teacher Recommendation.)

The CP chemistry course is a full year course of studies. Emphasis is placed on the study of the composition, structure, and properties of matter, the processes that matter undergoes, and the energy changes that accompany these processes. Students will investigate atomic theory, chemical bonding, gas laws, solids, liquids, solutions, reaction types, stoichiometry, acid-base reactions, thermodynamics, and periodic trends. One extended period is scheduled each week during which students are engaged in hands-on laboratories. Emphasis is placed on the qualitative and quantitative analysis of the changes that substances undergo in chemical reactions. The concepts presented are applied toward better understanding of the advancements being made in the fields of environmental engineering, energy transfer, material science, bioengineering, and nanotechnology. The development of proper communication skills and mathematical applications within the context of science is stressed.

**GENERAL SCIENCE (A)** (Prerequisite: Test Scores and Teacher Recommendation)**5 credits**

This is a full year course for eleventh graders. It is an integrated science course with emphasize on principles of chemistry and includes topics from all of the sciences. Laboratory investigations, lectures, audio-visual presentations and demonstrations are included.

**BIOMECHERN – STEM (H)** (Prerequisite: Sci Tech Prep and Teacher Recommendation)

**5 credits**

Biomechern-STEM is an inquiry based lab course which introduces students to the skills needed for further study in college and the eventual employment in the growing fields of biotechnology, biochemistry, chemical engineering, biochemical engineering, medibotics, programmable logic controllers, digital control units, drones, nanotechnology, green chemistry, material science, and neuroscience.

**PHYSICS (AP)**

**5 credits**

(Prerequisite: Physics, Teacher Recommendation. In order for a course to be weighted as AP status, the student is required to take the AP exam.)

The AP physics program is a continuation of the course of studies that focuses on the basic principles of classical and modern physics. The course continues the application of physics in our daily lives. Major areas of study in this course include mechanics, sound, heat, light, electricity and magnetism, and atomic and nuclear physics. Emphasis is placed on the mathematical descriptions that will prepare students for the AP Exam. A lab approach method of instruction is stressed. Scientific methods, both technical and research that scientists use as well as methods the student will need to use are included. Students are also provided with the opportunity for the development of communication skills within the context of science. The concepts presented are often applied toward better understanding of problems and/or advances made in the fields of environmental studies, energy, material science and technology. Laboratory investigations, lectures, audio-visual/computer enrichment and demonstrations are included. Students enrolled in this class will take the Advanced Placement (AP) test in May. A passing score on the AP test may result in the acquisition of college credits. (Not offered 2013-2014 school year)

**PHYSICS (H)** (Prerequisites: Teacher Recommendation; Chemistry Honors; Co-requisite: Pre-Calculus)

**5 credits**

The honors physics program is a full year course of studies that focuses on the basic principles of classical and modern physics. The course is an introduction to the application of physics in our daily lives. Major areas of study in this course include mechanics, sound, heat, light, electricity and magnetism, and atomic and nuclear physics. Emphasis is placed on the mathematical descriptions that will prepare students for future course work in physics. A lab approach method of instruction is stressed. Scientific methods, both technical and research that scientists use as well as methods the student will need to use are included. Students are also provided with the opportunity for the development of communication skills within the context of science. The concepts presented are often applied toward better understanding of problems and/or advances made in the fields of environmental studies, energy, material science and technology. Laboratory investigations, lectures, audio-visual/computer enrichment and demonstrations are included. This course is a prerequisite to AP Physics.

**PHYSICS 9 (H)** (Grade 9)

**5 credits**

This course represents the first year in a comprehensive two-year sequence of Algebra/Trigonometry based physics. This first course is comprised of Mechanics, which is studied for the first 40% of the year; Electricity and Magnetism, which is studied for the next 40%; and, finally, Simple Harmonic Motion, Waves, Light and the Bohr model of the Hydrogen atom for the last 20%. The order of the topics has been geared to use and reinforce the mathematics that the students are studying. For this reason, the first-year course is geared towards reinforcing skills in algebra and requires no trigonometry. This is accomplished by restricting the first-year course to problems that can be simplified to one-dimensional form. While vectors are introduced, they are only added and subtracted in one dimension at a time. This allows students to do about 90% of the Physics AP B topics. Connections are also developed between the analysis of motion and graphical analysis, collision problems and the solving of systems of equations, etc.

**PHYSICS (CP)** (Prerequisite: Chemistry and Algebra 2. Co-requisite: Pre-Calculus)

**5 credits**

The physics program is a full year course of studies that focuses on the basic principles of modern physics. The course is an introduction to the application of physics in our daily lives. Major areas of study in this course include mechanics, sound, heat, light, electricity and magnetism, and atomic and nuclear physics. Emphasis is placed on the mathematical as well as conceptual descriptions of physical phenomena in each area of study. A lab approach method of instruction is stressed at all levels. Scientific methods, both technical and research that scientists use as well as methods the student will need to use are stressed. Students are also provided with the opportunity for the development of communication skills within the context of science. The concepts presented are often applied toward better understanding of problems and/or advances made in the fields of environmental studies, energy, material science and technology. Laboratory investigations, lectures, audio-visual/computer enrichment and demonstrations are included.

**FORENSIC SCIENCE (CP)** (Grades 11 & 12)

**2.5 credits**

Forensic Science is an elective one-semester course. This course does not meet the science graduation requirement.

Students will learn how all the major areas of science studied in high school are applied to fields of accident and criminal investigation. Scientific inquiry method, evidence gathering techniques, historical perspective, and legal issues are integrated into the studies made by the students. Various levels of technology will be introduced to demonstrate how investigative research is effectively conducted. Topics covered include: incident scene safety and management, collection of chemical and physical evidence, fingerprinting, ballistics, DNA, explosives, hair fibers and paint, arson, body fluids, handwriting analysis, pressure impressions, pathology, anthropology, and non-incident scene evidence.

**ENVIRONMENTAL SCIENCE (CP)** (Grades 11 & 12)

**2.5 credits**

Environmental Science is a one-semester elective course. This course does not meet the science graduation requirement.

Students will study the relationship between the life and physical sciences and our biosphere. Learning the role that these sciences play in the environment, students will appreciate how research and technology can preserve and improve the natural state in which we exist. Fundamental ecological principles are outlined and current environmental issues of concern are addressed. Students are encouraged to apply their scientific backgrounds when analyzing problematic situations and formulating possible solutions to them. Topics covered include: ecosystems, populations, renewable resources, energy, pollution and prevention, and societal factors.

**ANATOMY AND PHYSIOLOGY (CP)** (Grades 11 & 12)

**2.5 credits**

Anatomy and Physiology is a one-semester elective course. This course does not meet the science graduation requirement.

Building upon information learned in biology, students will study the fundamentals of anatomy and physiology of the human body. While introducing students to the concepts of human anatomy and physiology and developing critical thinking skills this course will utilize the basic laboratory skills and techniques used in the Scientific method. Through lecture, labs and activities students will review human anatomy and further develop their knowledge of how the human body works. This elective course does not count towards graduation requirement for science.

**ASTRONOMY (CP)** (Grades 11 + 12)

**2.5 credits**

Astronomy is a one-semester elective course. This course does not meet the science graduation requirement.

In this course, students will focus on the exploration of the universe from the Earth and our solar system to beyond our galaxy. A foundation will be established in the learning of this science through historical and practical perspectives that will allow students to discover the range of latest theoretical viewpoints from the formation of the universe, galaxy, and solar system to the nature of star formation, black holes and dark matter. The night sky has inspired wonder throughout the ages – a wonder that leads us into the distant reaches of space and time. The science of astronomy allows us all to satisfy this curiosity through the need to explore and the need to understand. Through a variety of presentations, students will develop a comprehensive knowledge of the cosmos, as they engage in learning through readings, observations, videos, and in lab and field experiences.

**AP COMPUTER SCIENCE (AP)** (Grades 11+12)

**2.5/5 credits**

Following the College Board's suggested curriculum designed to mirror college-level computer science courses, AP Computer Science course provide students with the logical, mathematical, and problem-solving skills needed to design structured, well-documented computer programs that provide solutions to real-world problems. These courses cover such topics as programming methodology, features, and procedures, algorithms; data structures; computer systems; and programmer responsibilities.

**INDEPENDENT STUDY: SCIENCE (H)** (Grades 11 + 12)

**2.5/5 credits**

Independent Study courses, often conducted with instructors as mentors, enable students to explore scientific topics of interest, using advanced methods of scientific inquiry and experimentation. These courses may be offered in conjunction with other rigorous science courses or may serve as an opportunity to explore a topic of special interest.

# **SOCIAL STUDIES**

All students are required to take a full year of World History, United States History 1 and United States History 2. Honors and College Prep courses will include comprehensive discussion and/or writing assignments utilizing supplemental readings from various texts and primary sources. Students may use materials with a more difficult reading level, complete a greater number of complex papers and projects, and work more independently using many higher-order thinking skills such as evaluation, analysis and synthesis. Advanced Placement United States History 2 is a college level course.

**WORLD HISTORY (H)** (Prerequisite: A average in Social Studies/Teacher Recommendation) (Grade 9)

**5 credits**

The major purpose of World History is to promote awareness among students that people, no matter where they live, share common needs, hopes and desires. While exploring the geography, government, history, and culture of various world regions, it is hoped that students will develop open-mindedness toward other people based upon a respect for the dignity of all humans. The course will include comprehensive discussion and/or writing assignments utilizing supplemental readings from various texts and primary sources.

**WORLD HISTORY (CP)** (Grade 9)

**5 credits**

The major purpose of World History is to promote awareness among students that people, no matter where they live share common needs, hopes and desires. While exploring the geography, government, history, and culture of various world regions, it is hoped that students will develop open-mindedness toward other people based upon a respect for dignity of all humans.

**WORLD HISTORY (A)** (Prerequisite: PARCC scores/Teacher Recommendation) (Grade 9)

**5 credits**

The major purpose of World History is to promote awareness among students that people, no matter where they live share common needs, hopes and desires. While exploring the geography, government, history, and culture of various world regions, it is hoped that students will develop open-mindedness toward other people based upon a respect for the dignity of all humans. Basic reading, verbal and social studies skills will be emphasized throughout the year.

**U.S. HISTORY 1 (H)** (Prerequisite: World History Honors/A average in World History and Teacher Recommendation) (Grade 10)  
**(Students taking this class should have ambitions of taking US2 AP)**

**5 credits**

This course is a study of the historical development of the United States from the founding of the republic through the Civil War. The economic, political, social and cultural developments of United States History are examined through the study of historical events, concepts, philosophies and leading personalities. In addition to the study of national events, emphasis will be placed on the significant role New Jersey has played in the development of United States History. The course will include comprehensive discussion and the introduction of the document question essay writing assignments utilizing supplemental readings from various texts and primary sources. This course prepares students for AP U.S. History 2.

**U.S. HISTORY 1 (CP)** (Prerequisite: World History) (Grade 10)

**5 credits**

This course is a study of the historical development of the United States from the beginning of the Market Revolution and Manifest Destiny to Age of Imperialism and the Progressive Era. The economic, political, social and cultural developments of United States History are examined through the study of historical events, concepts, philosophies and leading personalities. In addition to the study of national events, emphasis will be placed on the significant role New Jersey has played in the development of United States History.

**U.S. HISTORY 1 (A)** (Prerequisite: World History and below proficient on standardized test scores) (Grade 10)

**5 credits**

This course is a study of the historical development of the United States from the beginning of the Market Revolution and Manifest Destiny to Age of Imperialism and the Progressive Era. The economic, political, social and cultural developments of United States History are examined through the study of historical events, concepts, philosophies and leading personalities. In addition to the study of national events, emphasis will be placed on the significant role New Jersey has played in the development of United States History. Basic reading, verbal and social studies skills will be emphasized throughout the year.

**ADVANCED PLACEMENT U.S. HISTORY (AP)** (Grade 11)

**5 credits**

This challenging course is designed to provide a college-level experience and prepare students for the AP exam which is administered in early May. The students will be engaged in a wide variety of activities, with substantial emphasis on interpreting documents, writing analytical essays, and mastering factual content related to all aspects of American History. Students will meet one additional class period per week for AP test preparation. In order for a course to be weighted as AP status, the student is required to take the AP exam.

**U.S. HISTORY 2 (CP)** (Prerequisite: World History and U.S. 1) (Grade 11)

**5 credits**

This course emphasizes important themes and issues from World War I to the present. The course is designed to help the student appreciate the value of democracy, our heritage as a world leader and further develop skills necessary for active citizen participation. Students maintain and extend skills previously learned, improve abilities to work cooperatively in groups and focus upon more complex thinking skills.

**U.S. HISTORY 2 (A)** (Prerequisite: World History, U.S. 1, and below proficient standardized test scores) (Grade 11)

**5 credits**

This course emphasizes important themes and issues from World War I to the present. The course is designed to help the student appreciate the value of democracy, our heritage as a world leader and further develop skills necessary for active citizen participation. Basic reading, verbal and social studies skills will be emphasized throughout the year.

**EUROPEAN HISTORY (H)** (Grade 12)

**5 credits**

(Prerequisite: World History, U.S. History 1, U.S. History 2, and Teacher Recommendation)

The purpose of AP European History is to afford advanced students the opportunity to study the cultural, economic, political, and social developments of Western Civilization since 1450 AD in great depth.

**SOCIAL JUSTICE (CP)**

**5 credits**

Social Justice is a year-long course in which students examine human rights issues. The course activities aim to give students perspective on diversity by engaging them in empathy training and meaningful discussion. In addition, students will explore international justice particularly war crimes and crimes against humanity, including genocide.

This course is part of the Roselle Park Leadership Program. Leadership demands that students be positive role models and have a positive impact on their peers' behaviors and attitudes. Therefore, a significant portion of the grade for this course is based on behavior in the Social Justice class, other classes and among the general school population.

**LEADERSHIP (CP)** (Prerequisite: C or higher in Social Justice and Teacher Recommendation)

**5 credits**

Leadership is a year-long course in which students receive over 150 hours of training in the following areas: teambuilding, group dynamics, small group facilitation, problem solving and peer counseling. Furthermore, students will apply skills gained in Leadership and knowledge from the Social Justice course to examine local justice issues. As a result, students will be required to create an action plan to positively impact the community. To qualify for Leadership, students must receive a grade of 'C' or better in Social Justice and be recommended by the Social Justice teacher.

This course is part of the Roselle Park Leadership Program. Leadership demands that students be positive role models and have a positive impact on their peer leadership class, other classes and among the general school population.

**CRISIS CENTER (CP)**

**5 credits**

The Crisis Center provides a safe atmosphere for students who are experiencing difficulty during the school day to discuss their concerns with trained students. Students who will be juniors or seniors must make an application to be accepted into the program. Students who are accepted for training must attend an intensive 3-day workshop during the summer, which focuses on listening, group and individual decision-making, and conflict resolution skills. Students are introduced to the causes of high-risk low-gain behavior such as substance abuse, and are provided with the knowledge and skills to help their peers address these difficulties. Qualified students are assigned to the Crisis Center as part of their regular academic schedule.

**INTRO TO PSYCHOLOGY (CP)** (Prerequisites: World History, U.S. History 1) (Grades 11 & 12)

**2.5 credits**

This course presents a behavioral, historical and social look on the development of thought and behavior. Human Behavior deals specifically with the concept of the behavior of the individual as he/she relates to his/her social environment. Students will examine modern and traditional explanations for behavior, and learn how social scientists find answers to the many questions concerning human behavior. Upon completion of course, student will better understand his/her behavior and how it relates to others.

**SOCIOLOGY (CP)** (Prerequisites: World History, U.S. History 1) (Grades 11 & 12)

**2.5 credits**

Sociology is a semester course that focuses on the study of the individual and how he/she acts and reacts in various groups and situations. Emphasis will be on the exploration of family, peer, school, work, religious, and other social institutions in which individuals participate. Students will have the opportunity to explore the process of group-dynamics and its impact on behavior and attitudes. Class work will involve reading and interpretation of data, participation in discussions, and examination of case studies. Through selected field experiences, the students will explore the career opportunities in Sociology.

**GLOBAL ISSUES 1 (CP)** (Prerequisites: World History and U.S. History 1) (Grades 11 & 12)

**2.5 credits**

This course will trace current political, international, military, social, economic, and environmental developments. Since it is impossible to predict specific world events, this course of study contains the following core topics that will be developed and expanded as contemporary events emerge: Global Security, Human and Civil Rights, Global Political Developments, Global Economics, and Global Environment. The role that the United States plays in these global developments will be emphasized.

**GLOBAL ISSUES 2 (CP)** (Prerequisites: World History and US History I) (Grades 11 & 12)

**2.5 credits**

This course will trace current political, international, military, social, economic, and environmental developments. Since it is impossible to predict specific world events, this course of study contains the following core topics that will be developed and expanded as contemporary events emerge: Global Security, Human and Civil Rights, Global Political Developments, Global Economics, and Global Environment. The role that the United States plays in these global developments will be emphasized.

**HISTORY OF WORK (A)**

**5 credits**

This course reviews the history and the methods by which society structures the activities and labor necessary to its survival. Work is essential in providing the basic physical needs of food, clothing, and shelter. But work involves more than the use of tools and techniques. Advances in technology, which will always occur, help to extend the reach of the hand, expand muscle power, enlarge the senses, and multiply the capacities of the mind. The story of work is still unfolding, with great changes taking place throughout the world and in a more accelerated fashion than ever before. The form and nature of the work process help determine the character of a civilization; in turn, a society's economic, political, and cultural characteristics shape the form and nature of the work process as well as the role and status of the worker within the society.

**ECONOMICS (CP)** (Grades 11 & 12)

**2.5 credits**

This course is the study of how people in society satisfy their wants through the production, distribution, and consumption of goods and services. Students will learn how the economic institution accomplishes this by studying the following topics: types of societies: preindustrial through postindustrial, the three sectors of the economy Primary, secondary, and tertiary, laws of supply and demand, governments effect on economies, and philosophies of different economic institutions.

**HISTORY OF SPORTS (CP)** (Grade 11 & 12)

**2.5 credits**

This course examines the place sports holds in American life since the early 20<sup>th</sup> century. It explores the origins of the organization of several sports form amateur to professional ranks. The course also examines how sports serve as a reflection of our social, political and economic make-up and its ability to effect and shape our institutions.

**HISTORY THROUGH FILM (CP)** (Grades 11 & 12)

**2.5 credits**

This course examines the use of film and as tools to enhance students' understanding and knowledge of both U.S. and World History. By using major motion pictures, students are able to not only develop a sense of historical chronology, but also a visual reference of technology, fashion, language, and culture as it pertains to the time period being referenced in the films. Many of the films used in the course are considered to be some of the all-time classics.

**AP HUMAN GEOGRAPHY (AP)** (Grade 11 & 12)

**5 credits**

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practices

# **SPECIAL EDUCATION**

The programs for special education students at Roselle Park High School are designed to serve students with disabilities. The full array and continuum of programs and services in the least restrictive environment are available, as recommended in each student's Individual Education Program.

Students with disabilities schedules are developed to meet individual student needs, as prescribed in their Individual Education Program (IEP). Many students with disabilities are served in Resource Center Programs for specific, small group subject instruction. These courses are taught by special education teachers. Other students with disabilities may be served using an in-class support model for instruction. These students are provided the assistance of an in-class support special education teacher in cooperation with the general education teacher, in a specific course of study offered to all students at Roselle Park High School.

The student and parents work with the case manager and guidance counselor to develop the appropriate schedule of classes to meet the needs of the student's educational program.

## **Roselle Park Academy** **District Alternative High School**

The Academy is an alternative school designed to service a wide range of students, both regular and special education. Although some of the students may demonstrate acting out behaviors that are often associated with alternative education, others may be dealing with family or personal problems, chronic health conditions, or a desire to learn in a smaller, more therapeutic environment. Whatever the cause, the students benefit from the learning environment provided by an alternative program. The population at the Academy ranges from grades 6 through 12, with a maximum of 20 students.

Classes are taught by a team of highly-qualified teachers and paraprofessionals. The team has been trained in the areas of cooperative discipline, conflict resolution and crisis intervention. A full-time licensed clinical social worker and school psychologist are on staff to provide individual and group counseling.

### **Special features of the Academy include the following:**

- Small group instruction
- Independent Study
- Program Completion Approach
- Flexible scheduling
- Learning contracts
- Field Trips
- Community Projects
- Close Parent-Teacher contact
- Counseling services

For more information about the program, please call (908)241-3050

# VISUAL, PERFORMING, AND PRACTICAL ARTS

## ART

### ART 1 (A)

**2.5 credits**

This introductory semester course exposes students to a variety of materials, and methods while learning about the elements of art and key periods in art history. Highlights include basic drawing skills and media and observational drawing, and color theory and its practical use in painting. Color mixing, tints, shades, and hues of color are explored.

### ART 2 (A) (Prerequisite: Art 1)

**2.5 credits**

This semester course is an intermediate progression and expansion of Art 1, including the principles of art and design. Students in this semester course are also introduced to three dimensional art and photography.

### ART 3 (A) (Prerequisite: Art 1 and Art 2 or Permission of teacher)

**2.5 credits**

This semester course will introduce more advanced media and technology including printmaking, acrylic painting, graphic design and three-dimensional projects. Emphasis is placed on illustration, composition and design.

### ADVANCED ART (A) (Grades 11-12) (Prerequisite: Art 1, Art 2 and Art 3 or Permission of teacher)

**5 credits**

This full year course is designed for the total art studio experience. A concentration of all assignments will put emphasis on finished pieces suitable for portfolio interviews. Students may explore anatomy, landscape, still-life, advanced photography/photo journalism, calligraphy, street art, technology, and other advanced individual or collaborative projects. The course will include art history; exhibit and museum visits; and portfolio presentations. When appropriate students will also be involved in community service projects.

### VIDEO PRODUCTION 1 (A) (Grades 10-12) (Prerequisite: Any semester of Art)

**2.5 credits**

This semester course is designed to provide an introduction to skills in video pre and post production, and cover scripts, story boards, sound, lighting, composition, and editing. Students will edit and produce video for public service, entertainment, and educational purposes. Exploration of documentary, social comment and historical film will also be included.

### VIDEO PRODUCTION 2 (A) (Grades 10-12) (Prerequisite: A semester of Art and/or Video Production1)

**2.5 credits**

This semester course is designed to provide a more advanced study of skills in video pre and post production, and cover scripts, story boards, sound, lighting, composition, and editing. Projects may include stop motion animation. Students will edit and produce video for public service, entertainment, and educational purposes. Exploration of documentary, social comment and historical film will also be included.

### PHOTOGRAPHY/DIGITAL ART (A) (Grades 10-12)

**2.5 credits**

This semester course is designed to provide an understanding of the history of photography and the development of the camera. Students will distinguish different photography styles after investigating them and examining their own style of picture taking. Through demonstrations, students will be able to identify the elements and principles of design and capture examples of this in their photographs. They will explore how to use general Photoshop tools and techniques to apply general photography manipulation and retouching. They will plan, execute, and design a well thought out collection of photographs.

## MUSIC

### CONCERT BAND (A) (Grades 9-12)

**5 credits**

The Concert Band is open to all musicians who wish to focus on improving their ensemble playing in a band setting. Development of basic musicianship and playing skills will be emphasized through performance in this band. Students will perform out in the community and in school concerts. These performances will be a course requirement. Students in this course also receive a private lesson once a week.



**PERCUSSION STUDIO (A)** (Grades 9-12)

**2.5 credits**

In this performance-based elective course, students can expect to learn how to read basic musical notation and apply that knowledge to percussion instruments in performance. They will also learn to compose and notate their own creations. Students will play not only drums, but xylophones, bongos, and congas, as well. **(No previous musical experience is necessary)**

**HISTORY OR AMERICAN MUSIC 1 (A)** (Prerequisite: None) (Grades 9-12)

**2.5 credits**

This is an elective course that explores the music of America from its origins until today. Students will be introduced to all styles of American music including folk, jazz, the blues, rock and roll and pop. The course of study will include learning about the influences of each style, analyzing the characteristics (including instrumentation), and listening to examples of popular artists and composers.

**HISTORY OR AMERICAN MUSIC 2 (A)** (Prerequisite: Hist. of Amer. Music I) (Grades 9-12)

**2.5 credits**

This elective course begins where Hist. of Amer. Music I left off. Students will continue to explore American music through project based lessons. Students will learn about different genres of music and create original group projects that will be presented to the class.

**ELECTRONIC MUSIC (A)** (Grades 9-12)

**2.5 credits**

This elective course introduces the students to world of digital music. Students will learn how to use popular programs such as Audacity and Garage Band. Projects include song editing, recording, and working with loops and samples. Students will learn how to create their own mixes as well as compose their own songs.

**MUSICAL THEATER (A)** (Prerequisite: None) (Grades 9-12)

**2.5 credits**

This elective course enables students to participate in varied aspects of musical theatre, with special attention to the fundamentals of voice production, stage movement, acting, characterization, and technical aspects of a musical production. The student will be introduced to the foundations of musical theatre through the use of exercises, assignments, play/concert attendance and written assignments.

**CHORUS (A)** (Prerequisite: None) (Grades 9-12)

**5 credits**

This beginning to intermediate chorus provides novice chorus students the opportunity to perform music through a variety of styles and periods. Students will learn proper vocal techniques for correct singing including breathing, posture, and voice placement as well as music reading and notation.

*Performing for both the school and community is required.*

## **PRACTICAL ARTS**

**COMPUTER PUBLISHING (A)** (Prerequisite: Teacher Recommendation)

**5 credits**

This course introduces the students to the basic format of yearbook production. The following topics will be covered throughout the year: layout, theme, copy, text, photography, business, and copy law. Students will use Photoshop to help in their production.

**WOODWORKING 1 (A)**

**2.5 credits**

Students in this full-year course will develop woodworking skills by utilizing woodworking tools and machines in conjunction with various projects appropriate for the current skill level of the student. The choice of projects is left to both the student and instructor. An in-depth safety curriculum is an important part of this course.

**WOODWORKING 2 (A)** (Prerequisite: Woodworking 1)

**2.5 credits**

Students in this full-year course will be working on individual projects and larger construction that will lead to developing greater skills and knowledge of woodworking. Students will be working with better grades of wood, utilizing more machinery, and learning more construction and finishing skills. An in-depth safety curriculum is an important part of this course.

**WOODWORKING 3 (A)** (Prerequisite: Woodworking 2)

**2.5 credits**

Students in this full-year course will refine their skills by creating advanced projects. Projects in this course are made with higher grades of woods, advanced joints and refined finishing techniques. Cabinet construction, including all drawers, doors, etc. lead to developing their woodworking techniques and skills. An in-depth safety curriculum is an important part of this course.

**WOODWORKING 4 (A)** (Prerequisite: Woodworking 3)

**2.5 credits**

Students in the full-year course will refine their skills by creating advanced projects. Projects in this course are made with higher grades of woods, advanced joints and refined finishing techniques. Cabinet construction, including all drawers, doors, etc. lead to developing their woodworking techniques and skills. An in-depth safety curriculum is an important part of this course.

**GRAPHICS 1 (A)**

**2.5 credits**

This is a full-year course where students will have the opportunity to develop skills used in the Graphics Arts industry. Areas addressed include silkscreen-printing methods, desktop publishing and darkroom work related to the graphics industry.

**GRAPHICS 2 (A)** (Prerequisite: Graphics Technology 1)

**2.5 credits**

This is a full-year course where students will use the knowledge and skills learned in Graphics Technology 1 to further their experience and practical knowledge of many of the Graphics Arts processes.

**GRAPHICS 3 (A)** (Prerequisite: Graphics Technology 2)

**2.5 credits**

Students who have at least two years experience in our graphics program will have an opportunity to work independently on several complex assignments. The emphasis in this course is placed on original designing. Computer aided printing, desktop publishing, advanced graphics printing processes and graphics related darkroom techniques are stressed throughout the course.

**GRAPHICS 4 (A)** (Prerequisite: Graphics Technology 3)

**2.5 credits**

Students who have at least two years experience in our graphics program will have an opportunity to work independently on several complex assignments. The emphasis in this course is placed on original designing. Computer aided printing, desktop publishing, advanced graphics printing processes and graphics related darkroom techniques are stressed throughout the course.

**MULTIMEDIA DESIGN (A)** (Prerequisite: None)

**2.5 credits**

This course provides students with an introduction to the discipline of graphic communication and digital media. Digital media has led to new methods of communication that affect how we work, play, and interact with one another. Through project-based assignments, students will explore ways of constructing various types of digital media and consider the aesthetic, technical, and social effects of this work. Emphasis will be placed on the Elements and Principles of Design as well as layout concepts and techniques.

**MULTIMEDIA DESIGN 2 (A)** (Prerequisite: Multimedia Design 1)

**2.5 credits**

This course provides students with exposure to more advanced areas of the graphic communication and digital media disciplines. Students will build on the knowledge and skills previously learned in Multimedia Design. Through project-based assignments, students will explore ways of constructing various types of digital media, such as animations and game design, and consider the aesthetic, technical, and social effects of this work. Emphasis will be placed on in-depth skills acquisition using the Adobe Mastersuite Software.

**INTRODUCTION TO ENGINEERING (CP)** (Co-requisite: Foundations of Technology)

**2.5 credits**

This course provides students with an introduction to the major areas of technical and engineering communication through the use of templates, drafting mediums, measuring, and Computer Aided Drafting systems. Emphasis will be placed on improving each student's spatial relationship and visual problem solving skills. The class employs an interdisciplinary approach with math and science and also provides students with introductory skills on Pro-Desktop® and Google Sketch Up 3-dimensional computer aided drafting programs in order to prepare them for the Foundations of Technology course.

**ENGINEERING 1 (CP)** (Co-requisite: Introduction to Engineering)

**5 credits**

This course will employ teaching/learning strategies that enable students to build their own understanding of technology innovation and the fact that it often results when ideas, knowledge, or skills are shared across other fields of study. Students will develop an understanding of engineering design, the formal process that transforms ideas into products or systems of the designed world. Students will select and use manufacturing technologies, construction technologies, energy and power technologies, and communication technologies that have been important in the development of contemporary technological products and innovations.

**ENGINEERING 2 (CP)** (Pre-requisite: Engineering 1) (Grade 10-12)

**5 credits**

Engineering 2 is a full-year course that focuses on technical applications, processes, and the designed world. This course will revolve around science, technology, engineering, and technology concepts used to create products and materials. Students will learn through hands-on problem solving, building models, creating prototypes, testing and evaluating product designs. Students will be able to design and create innovative solutions to everyday problems.

**INTRODUCTION TO ARCHITECTURE (CP)**

**2.5 credits**

This course provides students with an introduction to the major areas of architectural communication through the use of templates, drafting mediums, measuring, and Computer Aided Drafting systems. Emphasis will be placed on improving each student's spatial relationship and visual problem solving skills. The class employs an interdisciplinary approach with math and science and also provides students with introductory skills on the Architectural Home Designer® computer aided drafting program in order to prepare them for the Architectural Design and Advanced Architectural Design courses.

**ARCHITECTURAL DESIGN 1 (CP)** (Prerequisite: Introduction to Architecture)

**5 credits**

This course provides students with exposure to more advanced areas of the architectural communication discipline. Areas covered, such as residential design, floor planning and layout, elevation drawings, site development, and landscape architecture, are linked with a strong field trip component that allows students to see the real life application of the concepts being covered in class. Students at this level heavily use the Architectural Home Designer® program previously learned in Technical Drawing I, as well modeling techniques. Throughout the course, students will create and compile portfolio quality work in order to create a high quality portfolio that can be used for college applications and entrance interviews.

**ARCHITECTURAL DESIGN 2 (CP)** (Prerequisite: Architectural Design 1)

**5 credits**

This course is a seminar class in which students are introduced to new, high level architectural concepts and work independently on design projects and assignments. Areas covered, such as landscape architecture, historical architecture's impact on modern architecture, and green architecture are linked with a strong field trip component that allows students to see the real life application of the concepts being covered in class. Students at this level heavily use the Architectural Home Designer® program as well as modeling techniques. Throughout the course, students will compile a high quality portfolio of their work from the previous years of Technical Drawing and the Architectural Design classes that can be used for college applications and entrance interviews.

**ARCHITECTURAL DESIGN 3(CP)** (Pre-requisite: Architectural Design 2 and Teacher Recommendations)

**5 credits**

This course is an independent studio-style class in which high achieving architecture students are working independently on high level design projects and competitions at the state and national level. The purpose of this class is to provide the serious architecture student with a studio type learning and design environment which is found in all post-secondary architecture schools and degree programs.

**STEM Exploration (H)**

**5 credits**

(Pre-requisite: Foundations of Technology/Introduction to Architecture and Teacher Recommendation) (Grades 10-12)

This course is a design and project based learning course which fosters personal growth and opportunities in technology, science, innovation, design, mathematics and engineering. Students apply and integrate science, technology, engineering and mathematics concepts through design and build activities and competitive events both individually and collaboratively. This course relies heavily on the concepts and skills learned previously in the Foundations of Technology course and/or the Introduction to Architecture course, and continues to build upon the software knowledge and designing skills acquired in these two classes. This course will also prepare them for the more advanced courses offered in the Technology Education department.

# WORLD LANGUAGES

## FRENCH 1 (CP)

**5 credits**

This introductory course offers an opportunity to comprehend spoken French on a primary level, to speak simply on a regulated variety of subjects, and to read and write basic and simple French with well-constructed and grammatically correct sentences. Emphasis is placed on listening-comprehension, speaking, and basic grammar. Tapes and films are an integral part of each class session. Basic geography and culture are introduced at this level.

## FRENCH 2 CP (Prerequisite: Successful Completion of French 1)

**5 credits**

This intermediate course continues to strengthen the skills of listening comprehension and speaking, with more emphasis being placed on reading and formal grammar study. An integral part of this course is the study of French culture and widening of daily vocabulary and grammar structure.

## FRENCH 3 (CP) (Prerequisite: Teacher Recommendation and Successful Completion of French 2)

**5 credits**

This advanced level of French is conducted in the language, and daily French life is examined through the study of news articles, plays, poetry, short stories, cartoons and advertisements. The study of more intricate grammar rules and self-expression in writing is offered and students are encouraged to be self-sufficient in their expressions in all phases.

## FRENCH 4 (H) (Prerequisite: Teacher Recommendation and Successful Completion of French 3)

**5 credits**

This course offers an opportunity to study representative selections of French literature, more sophisticated grammar concepts, and a study of French history and art. Through classroom discussion and interpretation, the student maintains and furthers his/her fluency in the spoken language.

## ADVANCED PLACEMENT FRENCH (AP) (Prerequisite: Successful Completion of French 4 and Teacher Recommendation)

**5 credits**

The AP French Language course covers advanced French writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar and composition. Students taking such a course will emphasize the use of French for active communication.

The AP French Literature portion of the course is intended to be an Introduction to French Literature, covering selected works from the literatures of France and Africa. Because students read and analyze literature orally and in writing in French for this purpose, a high degree of language proficiency is needed. In order for a course to be weighted as AP status, the student is required to take the AP exam.

## SPANISH 1 (CP)

**5 credits**

This is an introduction of basic vocabulary and structure, using the oral approach with some reading of elementary Spanish. An attempt is made to help the student better understand the Spanish-speaking people through the teaching of geography and culture.

## SPANISH 2 (CP) (Prerequisite: Successful Completion of Spanish 1)

**5 credits**

This course continues with the sequence of work accomplished by the student in Spanish 1. He/she is acquainted with more detailed sentence construction. An attempt is made to improve the student's reading and speaking ability and to develop a better understanding of the language.

## SPANISH 3 (CP) (Prerequisite: Teacher Recommendation and Successful Completion of Spanish 2)

**5 credits**

The student becomes acquainted with Spanish history, literature, painting, and music. Emphasis is placed on better pronunciation and intonation with the improvement of oral skills and of grammar.

## SPANISH 4 (H) (Prerequisite: Teacher Recommendation and Successful Completion of Spanish 3)

**5 credits**

There is additional intensive study of history and literature in this course. The oral aspect of Spanish is stressed. There is some reading of current publications. Emphasis is placed on pronunciation and intonation. Further practice of vocabulary and structure is stressed.

**ADVANCED PLACEMENT SPANISH (AP)**

**5 credits**

(Prerequisite: Successful Completion of Spanish 4, Teacher Recommendation, and Entrance Test)

The AP Spanish Language course covers advanced Spanish writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar and composition. Students taking such a course will emphasize the use of Spanish for active communication.

The AP Spanish Literature portion of the course is intended to be an Introduction to Latin American or Peninsular Literature, covering selected works from the literatures of Spain and Spanish America. Because students read and analyze literature orally and in writing in Spanish for this purpose, a high degree of language proficiency is needed. In order for a course to be weighted as AP status, the student is required to take the AP exam.

**SPANISH HERITAGE 1 (CP)**

**5 credits**

(Prerequisite: Basic Spanish Skills in Reading Comprehension, Writing Composition, and Verbal Communication, Entrance Test)

Spanish Heritage 1 is a full-year course designed for students who have been formally exposed to listening, speaking, reading and writing in Spanish. The course is geared for students who are interested in polishing their skills and acquiring new ones in their native language. Included are a thorough review of grammar rules and the orthography of Spanish. Students will read and write extensively, give oral presentations, and participate in debates. All activities incorporate the learning of fundamental grammatical structures and the use of Spanish in numerous formal and informal settings. Students will examine not only linguistic but socio-cultural issues, developing a greater appreciation of the Hispanic Heritage.

**SPANISH HERITAGE 2 (CP)** (Prerequisite: Completion of Spanish Heritage 1 Course)

**5 credits**

Spanish Heritage 2 is the continuation of Spanish Heritage 1. It is a full-year course, which incorporates, advanced grammar rules and the orthography of Spanish. Skills and knowledge obtained in the previous course will be built upon in preparation for high-level usage of the Spanish Language.

**SPANISH HERITAGE 3 (H)** (Prerequisite: Completion of Spanish Heritage 2 Course)

**5 credits**

Spanish Heritage 3 is an intensive study of history and literature and this course is geared to native speakers. The oral aural aspect of Spanish is stressed. There is reading of short stories, poetry and current publications. Further practice of vocabulary and grammatical structure is stressed.

# **ENGLISH AS A SECOND LANGUAGE (E.S.L.)**

## **English as a Second Language Program Overview – High School**

High Intensity Level ESL and ESL programs are offered to the ELLs according to their needs. All students will be assessed informally every day and will be given written and oral assessments on periodic basics. Students may be scheduled for half year or full year.

### **ESL 1 Full Year for Grades 9 – 12 (A)** (Prerequisite: District & State Approved Assessment)

**2.5/5 credits**

This course introduces the English language to new ELLs with little or English language proficiency. Students will be taught the general language related to the content areas using pictorial or graphic representations. Students will learn to use words, phrases, and/or chunks of language when presented with one-step commands, directions, WH-questions, or statement with visual and graphic support.

### **ESL 2 Full Year for Grades 9-12 (A)** (Prerequisite: District & State Approved Assessment)

**2.5/5 credits**

In this course, ELLs with low to intermediate English language proficiency will be taught specific and some technical language of the content areas. At the end of the course, students will be able to use expanded sentences in oral interaction and written paragraphs; some may achieve a variety of sentence lengths of varying linguistic complexity in oral discourse and multiple, related paragraphs. By the end of the course, students will have oral and written language with minimal phonological, syntactic, and semantic errors that do not impede the overall meaning of the communication when presented with oral or written connected discourse with occasional visual and graphic support.

### **ESL 3 Full Year for Grades 9-12(A)** (Prerequisite: District & State Approved Assessment)

**2.5/5 credits**

This course is for advanced and bridging proficiency ELLs who will learn specialized and technical language reflective of the content area at grade level. At the end of the course, students will be able to use a variety of sentence lengths of varying linguistic complexity in extended oral and written discourse as required by the specified grade level. They will learn to communicate using oral and written English language comparable to proficient English peers.

### **ESL Lab (A)** (Prerequisite: District & State Approved Assessment)

**2.5/5 credits**

This class is designed to provide help to ELL students in their content area subjects. Students will receive support in all areas at the same time building their background vocabulary and knowledge to develop academic English.

**ROSELLE PARK HIGH SCHOOL**  
**SUBJECT SELECTION FOR 9<sup>TH</sup> GRADE STUDENTS**

**REQUIRED CLASSES**

**ENGLISH**

English 1

**SOCIAL STUDIES**

World History

**WORLD LANGUAGE**

French 1, 2

Spanish 1, 2

Spanish Heritage 1

**MATHEMATICS**

Geometry

Algebra

Algebra 1A

**SCIENCE**

Earth Science

**PHYSICAL EDUCATION**

Physical Education 1/Health Education

**PRACTICAL ARTS**

Introduction to Office 365/coding  
(2.5 credits)

**ELECTIVES**

**5.0 CREDIT CLASSES**

Band

Chorus

\*\*Engineering 1

Social Justice

**2.5 CREDIT CLASSES**

Art 1, 2

Chorus

Electronic Music

Graphics 1

History of Music 1, 2

Introduction to Architecture

\*\*Introduction to Engineering

Percussion Studio

Personal Law 1, 2

Woodworking 1

**ADDITIONAL CLASSES**

\*Writing Workshop

\*MPS 9

\* Based on PARCC 8 Results and Math  
recommendation

\*\* **Introduction to Engineering** scheduled S1  
along with Engineering I

**SAMPLE SCHEDULE**

1. Physical Education 1/Health Education
2. English 1
3. Introduction to Office 365/Coding (2.5)
4. World History
5. Spanish or French (1,2)
6. Earth Science
7. Math
8. Elective

**ROSELLE PARK HIGH SCHOOL**  
**SUBJECT SELECTION FOR 10<sup>TH</sup> GRADE STUDENTS**

**ENGLISH**

\*English 2

**SOCIAL STUDIES**

\*US History 1

\*\*\*Leadership  
Social Justice

**WORLD LANGUAGE**

French 1, 2, 3  
Spanish 1, 2, 3  
Spanish Heritage 1, 2

**MATHEMATICS**

\*Algebra 2H  
\*Geometry  
\*Geometry w/Support  
Algebra 1B  
Introduction to Computer Science (S)

**SCIENCE**

\*Chemistry H  
\*Biology  
Biomechem

**PHYSICAL EDUCATION**

\*Gym 2 and Driver Ed. Theory

**ADDITIONAL CLASSES**

MPS 10 (S)  
Writing Workshop (S)

**VISUAL/PERFORMING ARTS**

Art 1, 2, 3 (S)

Band (S/Y)

Chorus (S/Y)

\* \*Creative Writing for Performance (RPTV)

Electronic Music (S)

History of Music 1, 2 (S)

Musical Theory (S)

Percussion Studio (S)

Photography/Digital Art (S)

**21<sup>ST</sup> CENTURY LIFE AND CAREERS**

Architectural Design 1

Business Technology (S)

Engineering 1, 2

Graphics 1, 2 (S)

Information Processing (S)

Introduction to Architecture (S)

Introduction to Business (S)

Introduction to Engineering (S)

Multimedia Design 1(S)

Multimedia Design 1, 2 (S)

\*Personal Finance (S)

Personal Law 1, 2 (S)

\*\*STEM Exploration

Woodworking 1, 2 (S)

NOTE:

(S) Semester Course

(Y or S) Courses that may be taken for a  
year or a semester

\*Required courses

\*\* Requires approval of teacher

\*\*\*Requires C or Better in Social Justice



**ROSELLE PARK HIGH SCHOOL**  
**SUBJECT SELECTION FOR 11<sup>TH</sup> GRADE STUDENTS**

**ENGLISH**

- \*English 3
- Jr LAL SAT Prep (S)
- Public Speaking (S)

**SOCIAL SCIENCE**

- \*US History 2
- \*\*\*\* AP US History 2
- \*\* Crisis Center
- Economics (S)
- Global Issues 1, 2 (S)
- History of Sports (S)
- History through Film (S)
- Introduction to Psychology (S)
- \*\*\*Leadership
- Social Justice
- Sociology (S)

**WORLD LANGUAGE**

- French 1,2,3,4
- Spanish 1,2,3,4
- Spanish Heritage 1, 2, 3

**MATHEMATICS**

- \*\*\*\* AP Calculus AB
- \*Pre-Calculus
- \*Algebra 2
- Jr Math SAT Prep (S)
- Statistics (S)
- Introduction to Computer Science (S)

**SCIENCE**

- \*Physics
- \*Chemistry
- \*General Science
- \*\*\*\* AP Biology
- \*\*\*\* AP Computer Science Principles
- \*\*\*\* AP Chemistry
- Anatomy & Physiology (S)
- \*\*Biomechern
- Forensics (S)

**PHYSICAL EDUCATION**

- \*Gym 3 and First Aid/CPR

**VISUAL/PERFORMING ARTS**

- \*\*Advanced Art
- Art 1, 2, 3 (S)
- Band
- Chorus (S/Y)
- \*\*Creative Writing for Performance (RPTV)
- Electronic Music (S)
- History of Music 1, 2 (S)
- Musical Theater (S)
- Percussion Studio (S)
- Photography/digital Art (S)

**21<sup>ST</sup> CENTURY LIFE AND CAREERS**

- Accounting 1 (S)
- Accounting 2 (S)
- Architectural Design 1, 2
- Business Technology (S)
- Engineering 1, 2
- Graphics 1, 2, 3
- Information Processing (S)
- Introduction to Architecture (S)
- Introduction to Business (S)
- Introduction to Engineering (S)
- Sports & Entertainment Marketing (S)
- Multimedia Design 1,2 (S)
- \*Personal Finance (S)
- Personal Law 1, 2 (S)
- STEM Exploration
- Woodworking 1, 2, 3 (S)

**ADDITIONAL CLASSES**

- Writing Workshop (S)
- MPS 11 (S)

**NOTE:**

- (S) Semester course
- (Y or S) Courses taken for a year of a semester
- \*Required courses
- \*\*Requires approval of teacher
- \*\*\*Requires C or better in Social Justice
- \*\*\*\*Based on Departmental requirements and standardized test scores.

**ROSELLE PARK HIGH SCHOOL**  
**SUBJECT SELECTION FOR 12<sup>TH</sup> GRADE STUDENTS**

**ENGLISH**

\*English 4  
Public Speaking (S)

**SOCIAL SCIENCE**

\*\*\*\*AP Human Geography  
\*\*Crisis Center  
Economics (S)  
Global Issues 1,2 (S)  
History of Sports (S)  
History through Film  
Introduction to Psychology (S)  
\*\*\* Leadership  
Sociology (S)  
Social Justice

**WORLD LANGUAGE**

French 1, 2, 3, \*\*4, \*\*5AP  
Spanish 1, 2, 3, \*\*4, \*\*5AP  
Spanish Heritage 1, 2

**MATHEMATICS**

\*\*\*\* AP Calculus AB  
\*\*\*\*AP Statistics  
Algebra 2  
Pre-Calculus  
Calculus  
Statistics (S)  
Introduction to Computer Science (S)

**SCIENCE**

\*\*\*\*AP Computer Science Principles  
\*\*\*\*AP Biology  
\*\*\*\*AP Chemistry  
Anatomy & Physiology (S)  
Chemistry  
Environmental Science (S)  
Forensics (S)  
General Science  
Physics

**PHYSICAL EDUCATION**

\*Gym 4 and Family Life

**VISUAL/PERFORMING ARTS**

\*\*Advanced Art  
Art 1, 2, 3 (S)  
Band (S/Y)  
Chorus (S/Y)  
\*\*Creative Writing for Performance (RPTV)  
Electronic Music (S)  
History of Music 1, 2 (S)  
Musical Theory (S)  
Percussion Studio (S)  
Photography/digital Art (S)

**21<sup>ST</sup> CENTURY LIFE AND CAREERS**

Accounting 1 (S)  
Accounting 2 (S)  
Architectural Design 1, 2, 3  
Business Technology (S)  
Engineering 1, 2  
Graphics 1,2,3,4 (S)  
Information Processing (S)  
Introduction to Architecture (S)  
Introduction to Business (S)  
Introduction to Engineering (S)  
Sports & Entertainment Marketing (S)  
Multimedia Design 1, 2 (S)  
\*Personal Finance (S)  
\*\*Personal Law 1, 2 (S)  
STEM Exploration  
Woodworking 1,2,3,4 (S)

**ADDITIONAL CLASSES**

Portfolio Process Math/ELA (S)

**NOTE:**

(S) Semester Course  
(Y or S) Courses that may be taken for a year or a semester

\*Required courses  
\*\*Requires approval of teacher  
\*\*\*Requires C or better in Social Justice  
\*\*\*\*Based on Departmental requirements  
And standardized test score