



# **PARK RIDGE HIGH SCHOOL**

## **2016-2017 PROGRAM OF STUDIES**



***“Committed to  
Educational Excellence”***

**PARK RIDGE HIGH SCHOOL  
2 PARK AVENUE  
PARK RIDGE, NEW JERSEY 07656**

**Administration – Park Ridge School District**

Superintendent of Schools  
Business Administrator/Board of Education Secretary  
Director of Curriculum and Technology  
Director of Special Programs and Student Services

Dr. Robert Gamper  
Mr. Robert Wright  
Dr. Cathy Timpone  
Mrs. Lisa Bernardo

**Administration – Park Ridge High School**

Principal  
Assistant Principal

Mr. Troy Lederman  
Mr. Mark Cosgrove

**Department Supervisors – Park Ridge High School**

Athletics/Physical Education & Health  
English  
Guidance  
Mathematics & Business  
Science and Visual & Performing Arts and Computer Education  
Special Education  
World Languages & Social Studies  
Instructional Technology & Media Center

Mr. Christopher Brown  
Mrs. Maria Papadopoulos  
Mr. Troy Lederman  
Mr. Steve Kopelman  
Ms. Debra Aach  
Mrs. Cathleen Nalesnik  
Mrs. Ruth McIlhargy-Fritz  
Ms. Tina Bacolas

**Counseling Staff - Park Ridge High School**

Mrs. Alison Heller  
Mrs. Dawn Huffman  
Mrs. Tara Saykin

Guidance Counselor  
Guidance Counselor  
Guidance Counselor

Park Ridge High School is accredited by the New Jersey Department of Education

All courses are offered without regard to race, color, national origin, sex or handicap.

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# GUIDANCE SERVICES

The counselor is concerned with gathering information about students, giving and interpreting the results of standardized tests to students, making available to students information on careers, and making them aware of educational and occupational opportunities. The counselor is a resource person and someone to whom students can turn for help with an academic or a personal problem. The counselor will assist students in all aspects of school, college, or occupational placement, and he or she is interested in helping students make their high school years academically successful and personally rewarding.

Guidance and counseling services contribute significantly to the accomplishment of educational goals by focusing attention on conditions relating to student learning and development. These conditions are student-individuality, compatibility of personal and school goals, and the useful integration of experience.

## **Student Individuality**

Each student is a developing human being affected by many different situations and events that occur in his or her life. Each student has a unique potential and individual history. Therefore, even though all people progress through similar developmental stages and are exposed to planned and unplanned learning experiences, the reactions and responses of each student remain distinctive. No matter how uniform or standardized the opportunities for growth and development may be, each student's experience and perceptions of reality remain unique and influence the student's response in a given situation.

## **Compatibility of Goals**

To make effective use of opportunities for learning and growing, each student needs to understand his or her own goals and how they relate to the goals of the school. Each student should determine which personal goals the school can and cannot meet and plan strategies that permit maximum use of opportunities to attain those goals both in and out of school.

The New Jersey Administrative Code requires that each school district's educational program provide each student "guidance and counseling to assist in career and academic planning." Such services are most effective when provided within the context of the student's unique developmental pattern, one's personal goals, and life experiences.

Students must be helped to develop their own abilities and to learn to recognize and cope with situational and developmental experiences as they occur. An important function of guidance and counseling services is to help students become their own advocates and to access special programs that will assist them in becoming successful students, e.g., ESL, basic skills, gifted, etc. The school counselor will play an active role in identifying special needs and program planning.

School counselors must also provide services of a preventive and supportive nature in response to immediate and critical student problems and provide crisis counseling as needed.

## **A. Counseling Services**

The purpose of counseling is to foster in each student self-examination, self-evaluation, and consideration of alternative strategies so that students, through personal reflection, can benefit from life experiences.

### **1. Academic Development**

- a. Students will acquire the attitudes, knowledge, and skills that contribute to effective learning in school and across the life span.
- b. Students will complete school with the academic preparation essential to choose from a wide range of substantial postsecondary options, including college.
- c. Students will understand the relationship of academics to the world of work and to life at home and in the community.

2. **Career Development**
  - a. Students will acquire the skills to investigate the world of work in relation to knowledge of self and to make informed career decisions.
  - b. Students will employ strategies to achieve future career success and satisfaction.
  - c. Students will understand the relationship between personal qualities, education and training, and the world of work.
3. **Personal and Social**
  - a. Students will acquire the attitudes, knowledge, and interpersonal skills to help them understand and respect self and others.
  - b. Students will make decisions, set goals, and take necessary action to achieve goals.
  - c. Students will understand safety and survival skills.

## **B. Consulting Services**

The purpose of consulting is to share professional information and knowledge with others who have an important part to play in the student's development. This aspect of guidance and counseling services fosters in others an understanding of human development, in general, and the developmental needs of individual students, in particular.

Appropriate consulting activities may include but are not limited to the following:

1. Collaborating with other professionals in the school community on matters such as current knowledge about human growth and development and adjustment, personal developmental needs of individual students, individual readiness and career relevance of subject matter.
2. Educating the school community to the purpose, functions, and availability of all guidance and counseling services.
3. Helping the school district to develop and implement instructional programs and procedures that assure equitable treatment of and equal access by all students.
4. Working with instructional and administrative staff in the implementation of graduation standards as they relate to curricular modifications and remedial program development.
5. Maintaining continuing relationships with other student personnel services staff to share professional expertise and enhance each other's efforts in working with students.
6. Actively participating in the identification, evaluation, I.E.P. (individualized educational plan) development, and program implementation in the least restrictive environment for students with disabilities.
7. Planning and facilitating preventive and supportive approaches to address current student problems.
8. Planning and facilitating parents/teachers/student conferences.
9. Planning and facilitating annual junior conferences with parents and students.
10. Cooperating in the in-service of faculty and staff.
11. Establishing relationships with the mental health community for the purpose of professional referral and information exchange.
12. Establishing and maintaining relationships with community agencies such as the Division of Youth and Family Services, the courts, and various private agencies to share professional expertise and enhance each other's efforts in working with students.
13. Maintaining contact with, and being aware of, resources which are provided by various state agencies such as the Departments of Education, Health, and Labor (BCPIC), rehabilitation services, etc..
14. Cooperating with business and industry to facilitate student career planning, job placement, and plans for post secondary training.

## **C. Program Management**

### **Student Information**

The purpose of this aspect of program management is to provide students, their parents, and appropriate professional staff with relevant information about each student's present status, past performance, and future potential.

Student information includes the collection, organization, storage, retrieval, dissemination, and use of the following types of information:

1. Assessment data about each student.
2. Materials and media suitable to facilitate the orientation and transition of students within and beyond the school experience.
3. A library of occupational and educational information and literature related to personal and social adjustment.
4. Student records, including relevant reports of evaluations by other student personnel services staff, and notations of special student needs.

# GRADUATION REQUIREMENTS

Students need to complete 140 credits to graduate from Park Ridge High School.

State and local policy dictates that a portion of the total credits must be earned in the prescribed courses outlined below:

***Graduation requirements include:***

4 years of Language Arts Literacy (English)	20 credits
1 year of World Cultures	5 credits
2 years of American History	10 credits
3 years of Mathematics	15 credits
3 years of Lab Science (Biology, Chemistry, & a third laboratory/inquiry-based science course)	15 credits
2 years of World Language	10 credits
1 year Visual and Performing Arts	5 credits
1 year of Career Education and Consumer Family and Life Skills or Vocational/Technical Education	5 credits
4 years of Physical Education/Health	16 credits
0.5 year of Economics/Financial Literacy (taken during 9 <sup>th</sup> grade)	2.5 credits

All 9<sup>th</sup> graders are required to take Freshmen Focus. This fulfills 2.5 credits of the required 5 credits in Practical Arts.

The remaining credits should be chosen to give the student a well-rounded program that will help him or her to prepare for further education or immediate employment and become a knowledgeable and productive citizen. A student may wish to seek an Option 2 opportunity to enhance his/her schedule of classes.

The parents/guardians and a counselor will assist the student in planning a program of studies that will enable the student to reach his or her education or occupational goals beyond high school. All subjects that meet one period each day of the school year carry five credits.

## NEW JERSEY STATE TESTING GRADUATION REQUIREMENTS

Until the year 2020, students must pass the state required test: Partnership for Assessment of Readiness for College and Careers (PARCC) *or* one of the equivalent assessments allowed by the NJ Department of Education (see below).

PARCC ELA Grade 9 $\geq$ 750 (Level 4) <i>or</i>	PARCC Algebra I $\geq$ 750 (Level 4) <i>or</i>
PARCC ELA Grade 10 $\geq$ 750 (Level 4) <i>or</i>	PARCC Geometry $\geq$ 725 (Level 3) <i>or</i>
PARCC ELA Grade 11 $\geq$ 725 (Level 3) <i>or</i>	PARCC Algebra II $\geq$ 725 (Level 3) <i>or</i>
<b>Prior to 3/1/16 SAT Critical Reading <math>\geq</math> 400 <i>or</i></b>	<b>Prior to 3/1/16 SAT Math <math>\geq</math> 400 <i>or</i></b>
<b>3/1/16 or later SAT Evidence-Based Reading and Writing Section <math>\geq</math> 450 OR SAT Reading Test <math>\geq</math> 22</b>	<b>3/1/16 or later SAT Math Section <math>\geq</math> 440 OR SAT Math Test <math>\geq</math> 22</b>
ACT Reading or ACT PLAN Reading $\geq$ 16 <i>or</i>	ACT or ACT PLAN Math $\geq$ 16 <i>or</i>
Accuplacer Write Placer $\geq$ 6 <i>or</i>	Accuplacer Elementary Algebra $\geq$ 76 <i>or</i>
Accuplacer Write Placer ESL $\geq$ 4 <i>or</i>	
PSAT10 Reading or PSAT/NMSQT Reading** $\geq$ 40 <i>or</i> PSAT10 Reading or PSAT/NMSQT Reading*** $\geq$ 22 <i>or</i>	PSAT10 Math or PSAT/NMSQT Math** $\geq$ 40 <i>or</i> PSAT10 Math or PSAT/NMSQT Math*** $\geq$ 22 <i>or</i>
ACT Aspire Reading $\geq$ 422 <i>or</i>	ACT Aspire Math $\geq$ 422 <i>or</i>
ASVAB-AFQT Composite $\geq$ 31 <i>or</i>	ASVAB-AFQT Composite $\geq$ 31 <i>or</i>
Meet the Criteria of the NJDOE Portfolio Appeal	Meet the Criteria of the NJDOE Portfolio Appeal

Note: \* SAT taken prior to March 2016; \*\* PSAT taken prior to October 2015; \*\*\*PSAT taken after October 2015.

## **CLASS MEMBERSHIP AND PROMOTION**

To become a freshman, a student must have successfully completed the eighth grade.

To become a sophomore, a student must achieve 35 credits.

To become a junior, a student must achieve 70 credits.

To become a senior, a student must achieve 105 credits.

## **COLLEGE ENTRANCE REQUIREMENTS**

A student's high school program will be evaluated by colleges for "strength of curriculum." Sixteen to twenty academic units are most commonly required. Academic units are known also as either college-preparatory courses or Carnegie units. Courses with such a designation are English, social studies, mathematics, science, and world languages. The senior year program of courses should be consistent with the prior level of achievement.

## **ADVANCED PLACEMENT COURSES**

Park Ridge High School offers Advanced Placement courses in English Language & Composition, United States History, Spanish Language, French Language, German Language, Chemistry, Biology, Psychology and Calculus. A student's full commitment to the Advanced Placement program is expected. Students are expected to take the Advanced Placement exams in the spring.

## **NCAA INFORMATION**

College bound athletes need to be sure they have the kind and number of courses required to meet NCAA eligibility requirements. Students should check with their counselors for NCAA information or go to [www.NCAAClearinghouse.com](http://www.NCAAClearinghouse.com).

Courses that are coded with NCAA have met the requirements for Core Courses as set by NCAA and submitted by PRHS. In addition, the NCAA uses a sliding scale in regard to GPA and SAT/ACT scores. Approved PRHS courses are also included on the NCAA web site.

## **THE GRADING SYSTEM**

Park Ridge High School operates on a scaled grading system. If a student's performance is below 55 at the reporting time, then the teacher or counselor will contact the parent/guardian for a conference.

All course evaluations will be referenced according to the following scale:

- Excellent                      92 to 100
- Good                              83 to 91
- Average                         74 to 82
- Poor, but passing            65 to 73
- Failure                          55 to 64

## **TRANSCRIPT NUMERICAL AVERAGE COMPUTATION**

The following steps and table describe how to compute the transcript numerical average:

- Multiply the quality point value for the given course grade by the number of credits assigned per course. If the course is an Honors or AP course, then the course grade is given respective bonuses of 5 or 10 points.
- Total the number of achieved quality points (quality point value per grade x credits assigned per course)
- Divide the total quality points achieved by the total number of credits earned to yield the transcript numerical average.

Example:



Course	Level	Grade	Bonus Points	Credits	Quality Points/course	
AP English Language	3	92	10	5	$(92+10) \times 5 = 510$	
Chemistry Honors	2	88	5	6	$(88+5) \times 6 = 558$	
AP US HISTORY II	3	89	10	5	$(89+10) \times 5 = 495$	
GYM/LAB	1	94		3	$(94) \times 3 = 282$	
Ceramics	1	85		2.5	$(85) \times 2.5 = 212.5$	
French IV	2	94	5	5	$(94+5) \times 5 = 495$	
Algebra 2	1	96		5	$(96) \times 5 = 480$	
Psychology	1	82		5	$(82) \times 5 = 410$	
Computer App I	1	95		2.5	$(95) \times 2.5 = 237.5$	Transcript Average
Health 11	1	86		1	$(86) \times 1 = 86$	
			<b>Totals</b>	<b>40</b>	<b>3766</b>	<b>3766/40 = 94.15</b>

### Honor Roll Computation

Honor Roll is averaged by adding all course grades including respective course bonus points and dividing by the total number of courses. If the average is between 88 and 94, then the student has achieved Honor Roll recognition. If the average is greater than 95, then student has achieved Principal's Honor recognition.

### Honors/AP Program

Honors and Advanced Placement courses are offered in several content areas—English, social studies, science, mathematics, and world languages. These courses are designed for those students who have demonstrated high academic achievement, above average skills and an interest in expanding their expertise in a particular subject area. The course work in honors and AP classes is more challenging and requires students to work independently.

Teachers make recommendations regarding placement into Honors/AP. Students who are considered for the honors/AP program have met the following criteria:

- A mid-year average of 92 or higher in a given content area course (exception: World Language)
- World Language: Levels IV – VI Placement: 80 or above in the previous level of the target language
- Strong critical thinking, reading and writing skills
- Academic commitment/motivation
- Disciplined work habits
- Creative, original thought
- Initiative, independence
- Excellent class participation
- Use of the target language in World Language classes

Students who are not recommended for Honors/AP may petition for admission, by fulfilling the following requirements:

- Completion of Student Self-Assessment Essay
- Signed waiver form by parent/guardian
- Parent/Counselor/Administrator meeting

It is important that students realize the level of commitment students are expected to make when taking on an honors and/or advanced placement course. A student who does not maintain an 83 or higher will not be permitted to continue in the honors/AP program.

## OPTION 2

On January 7, 2004 the New Jersey Department of Education released the new High School Graduation requirements that were effective with the 2004-2005 Freshman Class. These new regulations made allowances for students to demonstrate proficiency in required subject matters through means other than the regular classroom time.

As was stated in the press release, “We believe that we have put in a set of requirements that reflects the reality that students attain necessary knowledge and skills at different rates and in different ways. By creating a flexible system of graduation requirements, we are empowering schools to substitute course requirements with course proficiencies, in certain circumstance, while assuring that students are meeting state academic standards as described by the New Jersey Core Content Curriculum Standards.” This new way of thinking is what brought about Option 1 and Option 2 in meeting the state and local graduation requirements.

Option 1 modifies the existing credit requirements, while Option 2 allows local school boards to use performance or competency assessments to fulfill requirements towards high school graduation.

The Park Ridge School District understands that Park Ridge students need educational opportunities in order to vary their academic experiences. To this effect, Park Ridge High School is proud to provide Option 2 opportunities.

### **Option 2 Opportunities**

Park Ridge High School currently offers opportunities under Option 2 via the following:

#### **The College Connection**

Students may earn college credits while attending Park Ridge High School. The College Connection offers courses for credit from Bergen Community College and Fairleigh Dickinson University (The Middle College Program).

#### **The Middle College Program**

Students may receive credit from Fairleigh Dickinson University if they enroll at a special registration meeting in September. The course list as of the date of this publication is as follows:

- AP Calculus
- AP Biology
- AP Chemistry
- AP English Language & Composition
- AP English Literature
- AP French Language
- AP German Language
- AP Psychology
- AP Spanish Language
- Human Anatomy and Physiology
- AP United States History

### **EDUCERE – ONLINE**

We are in a continuous search to offer more to our students. The following courses have been added to next year’s Option 2 course offerings.

Latin	AP Government and Politics	AP Music Theory
Italian	Criminal Investigation	Marketing
Japanese	Criminal Justice	Personal Finance & Management
Discrete Mathematics	Astronomy	Business Accounting
Calculus BC	Bioethics	Hospitality Accounting
Linear Algebra	Marine Biology	Business English
AP European History	AP Physics B	AP Computer Science
Introduction to Philosophy	Music Theory	
Law and Legal Systems	Art History	

These courses are offered via a distance-learning medium and may require off-campus visits and/or online work.

## **OPTION II/INDEPENDENT STUDY**

Eligible students may elect to participate in the Option II Program through a course or special project. The student's involvement in the program will depend upon available funds, the student's interests and needs, and his/her willingness to fulfill the terms of the contract signed with a guidance counselor and supervisor of guidance. The ratio of teacher to students in this program is usually one to one.

An Option II Program would be taken by a student when he/she is unable to enroll in a regular class because of an unavoidable scheduling conflict, or because the course is not currently offered, or the student is interested in pursuing an area of interest outside of the traditional school program.

**Eligibility:** Interested students in grades 9-12

**Credits:** Semester courses or projects: 2.5 credits  
Year-long courses or projects: 5 credits

**NOTE:** Interested students are encouraged to submit their contract proposal to their guidance counselor during the course selection process but no later than the first week in September.

## **9970 SCHOOL/COMMUNITY PROGRAM**

**Grades 9, 10, 11, 12**

**1.25 Credits**

The Park Ridge High School Service Program is voluntary, and is altruistic in nature. High school students will volunteer their time to help those in need. The students will be provided with an opportunity for greater social commitment, increased self-esteem, and heightened self-awareness. Any student can participate with parental permission and then choose from any number of service possibilities.

Credits (1.25) will be granted for 120 hours of community service per school year.

This program will enable a student to earn a total of 5 credits during his or her high school career.

For more information contact your guidance counselor.

The options below are pending BOE approval and student interest.

## **9999 CAREER EXPLORATION INTERNSHIP**

**Grades 12**

**10 or 15 Credits**

**Prerequisite:** Administrative approval

The internship prepares students for the working world. All aspects of preparing for a career of the student's interest are explored, from ability to resume writing. Students are placed on a non-paid internship in the community for 2 periods a day. These internships are meant to match the student's career plan. Exploration of postsecondary colleges and training programs are also explored to assure a successful transition from High School to the Adult Community. Information on the application process is available in the Guidance office and requires an interview, application and essay.

## **9988 TOMORROW'S TEACHERS**

**Grades 11, 12**

**5 Credits**

**Prerequisite:** Administrative approval

The Center for Educator Recruitment, Retention and Advancement (CERRA) nationally-recognized Teacher Cadet Program is an innovative, curriculum based college level course designed to attract talented young people to the education profession through a challenging introduction to teaching. The Tomorrow's Teacher program seeks to provide high school students insight into the nature of teaching, the problems of schooling and the critical issues affecting the quality of education in America's schools. Information on the application process is available in the Guidance office and requires an interview, application and essay.



## COMPUTER EDUCATION

### 6123 STEAM 101

Grades 9, 10, 11, 12

2.5 Credits

**Prerequisite:** None

This course will engage students in Science, Technology, Engineering, Art and Mathematics. Students will become “Makers”, working together to create, design and program their own inventions. Some of these projects will be artistic, some will be functional and some will be combination of both. 3-D printing will also be utilized. Pending BOE Approval

**PLEASE NOTE THAT STEAM 101 WILL BE REPLACING COMPUTER APPLICATIONS I**

### 6491 PROBLEM-SOLVING THROUGH GAMES

Grades 9, 10, 11, 12

2.5 Credits

**Prerequisite:** None

The main focus of this course is the creation of video games. Many of today’s best games involve high-level thinking skills outlined in Bloom’s Taxonomy. Students will apply a variety of problem-solving techniques through games of logic, strategy, simulation and more. (Examples include Rollercoaster Tycoon, Spore, Civilization, SimCity, Age of Empires and Myst.) Students will critically evaluate games and discover the impact games have to increase higher order thinking skills. Students will apply skills learned to develop their own games.

### 6489 PROBLEM SOLVING THROUGH GAMES II

Grades 9, 10, 11, 12

2.5 Credits

**Prerequisite:** Problem Solving Through Games

Students will get a more in-depth look at game creation using GameMaker. They will create more interesting projects and even get a look at “GameMaker Language”. This course is meant for those who really enjoyed Problem Solving Through Games and want to do more game making.

### 6488 PROBLEM SOLVING THROUGH GAMES III

Grades 10, 11, 12

2.5 Credits

**Prerequisite:** Problem Solving Through Games II

Students will continue their study of game creation. They will create platform games, discuss theories of game design and storytelling in games, and add special features to their creations.

### 6454 WEBSITE DEVELOPMENT

Grades 9, 10, 11, 12

2.5 Credits

**Prerequisite:** Internet Applications

This course will introduce students to the principles of website design and the creation of Flash animations.

### 6442 COMPUTER GRAPHICS AND DESKTOP PUBLISHING

Grades 9, 10, 11, 12

2.5 Credits

**Prerequisite:** None

This course is designed for those students who are interested in the more artistic aspects of computer applications. Students will use three applications: image editing (Photoshop), vector graphics (Illustrator), and desktop publishing (In-Design). Photoshop is the world standard tool for creating, painting, correcting, and retouching photos. Illustrator is used to create and edit drawn shapes and like Photoshop, it is used by virtually all design professionals as well as by amateurs who want their work to look professional. In-Design is a top desktop publishing application used for designing newspapers, magazines and advertisement layouts, CD covers, and newsletters. This course is recommended for students with an interest in computer graphics and especially those who are interested in careers in graphic design. 3-D printing may also be utilized.

### 6361 COMPUTER SCIENCE I

Grades 9, 10, 11, 12

2.5 Credits

**Prerequisite:** None

Computer Science is all about developing analytical ability, logical thinking, and problem solving skills. It is a foundation for a wide variety of careers. This course will introduce students to programming – or coding. The fundamentals of programming are, in the 21<sup>st</sup> century, a basic digital literacy. Apple co-founder Steve Jobs once said, “I think everybody in this country should learn how to program a computer because it teaches you how to think.” Computer Science is one of the highest paying college degrees and computer-programming jobs are growing at twice the national average.

<b>6381 COMPUTER SCIENCE II</b>	<b>Grades 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> Computer Science I		
This course is designed for those students who desire to further their study of programming. More advanced topics will be covered.		
<b>6400 COMPUTER SCIENCE III</b>	<b>Grades 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> Computer Science I and preferably, Computer Science II		
Students will continue their study of computer science, but in the Greenfoot Java environment. While games may still be created for projects, the focus will be on more traditional programming. Although this is not an AP course, students will be encouraged to develop those skills.		
<b>6421 COMPUTER SCIENCE IV</b>	<b>Grades 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> Computer Science III		
Students will further their study of Java programming in the more rigorous development environment. Advanced topics will be covered.		
<b>6472 3D COMPUTER GRAPHICS</b>	<b>Grades 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
Students will be introduced to 3-dimensional computer graphics. They will become familiar with a 3D graphics program, including working in three-dimensional space, manipulating such objects and the basics of animation. 3-D printing will also be utilized.		
<b>6474 3D COMPUTER GRAPHICS II</b>	<b>Grades 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> 3D Computer Graphics		
Students will explore more advanced topics in 3-dimensional modeling. These will include extrusion, joining, separating, smoothing, transparency and working with materials. 3-D printing will also be utilized.		
<b>6424 ROBOTICS I</b>	<b>Grades 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
Build and control robots that move, speak, and do just about whatever you decide to tell them to do. No prior experience required. The course will enhance a student's logical thinking skills and problem-solving abilities. 3-D printing will also be utilized.		
<b>6425 ROBOTICS II</b>	<b>Grades 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> Robotics I		
In this class, students will build upon the knowledge received in Robotics I. The robots will be able to perform more complex tasks. This course will also expand upon the programming skills learned in Robotics I. 3-D printing will also be utilized.		
<b>6426 APP CREATION I</b>	<b>Grades 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
This class will introduce students to the basics of app creation for mobile devices using a graphical interface. No experience required! Students will be able to design actual apps, including graphics, buttons, sound, and more. The course will also introduce students to the basics of programming – an essential 21 <sup>st</sup> century skill – in a comprehensive, but user-friendly format.		
<b>6427 APP CREATION II</b>	<b>Grades 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> App Creation I		
In this class, students will build upon the knowledge gained in App Creation I and create more complex and interesting apps. Students will expand upon the programming knowledge they gained in App Creation I and further develop their analytical skills. If time permits, students will try and develop an app to control a robot.		

**6124 AP COMPUTER SCIENCE PRINCIPLES**

**Grades 11, 12**

**5 Credits**

**Prerequisite:** Algebra I, Honors Criteria and teacher recommendation.

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real world applications, AP Computer Science Principles prepares students for college and career. Additionally, the skills students acquire in this course will serve them well in many computing and STEM careers. Pending BOE Approval.



# ENGLISH

The basic purpose of the English program is the development of communication skills (reading, writing, speaking, viewing, and listening) on both the practical and aesthetic levels. In each of the four years, the emphasis in the required English course is on the sequential study of writing, literature, and language:

- In writing - to develop the ability to express ideas in written form;
- In literature - to develop the comprehension and interpretation of ideas in literary selections and to provide experience with literary forms and literary criticism; and
- In language - to develop proficiency in the use of English.

To meet the varying needs and abilities of the students, the program makes use of grouping and a multi-text approach with a balance between classical and modern literary works.

## 1220 ENGLISH 9 HONORS

Grade 9

5 Credits

**Prerequisite:** Honors Criteria and recommendation from 8<sup>th</sup> grade English teacher

The honors program includes all the objectives of English 9 but includes more challenging reading experiences, more extensive vocabulary, greater breadth in the study of grammar, and a composition program that emphasizes mastery of various modes of written discourse.

## 1210 ENGLISH 9

Grade 9

5 Credits

**Prerequisite:** English 8

The course emphasizes the essential skills necessary for success in learning. Students will learn to apply the writing process to their writing including drafting, revision and rewriting, and editing. All students will read a variety of prose essays, short stories, novels, dramas, poetry, and nonfiction. As they work with these reading materials, students will practice analytical and critical reading skills. Their vocabulary development will include study of word recognition skills and new words in context. Students will apply basic speech skills to their oral presentations. Through emphasis on note taking and viewing, students will develop listening and study skills. Integral to all of the above, they will learn and apply critical thinking skills. This course lays the foundation for successful achievement in the English program and on New Jersey High School Proficiency Assessment (HSPA).

## 9291 FUNDAMENTALS OF ENGLISH 9

Grade 9

5 Credits

**Prerequisite:** English 8 and administrative approval

This course is designed to give students the individualized attention and practice they need to strengthen skills and strategies developed in Language Arts. The class focuses on: analyzing and comparing major works of literature, the development of critical thinking skills, writing as a process, the meta-cognition of reading comprehension strategies, vocabulary development, grammar, viewing skills and using technology as a research tool. Students will read novels and short stories of various genres, plays and poetry, to which learners will respond orally and in writing. Students will develop appropriate speaking and listening skills through class discussions and presentations. A writing portfolio will be developed including narrative, expository and persuasive essays, poetry, literature responses and research papers. Preparation for the 10<sup>th</sup> grade PSAT, will be incorporated into the curriculum through parallel tasks.

## 1320 AMERICAN LITERATURE HONORS

Grade 10

5 Credits

**Prerequisite:** English 9, Honors Criteria and teacher recommendation

American Literature Honors emphasizes the diversity and cultural richness of the American experience. Reading selections are organized to present the literature of the United States in a historical context. The number and variety of selections, from traditional to contemporary literature, offer choice and flexibility in meeting curriculum requirements as well as student needs and interests. Students are given the opportunity to express themselves within the context of our rich American heritage. The curriculum stresses critical thinking, problem solving, viewing skills, personal expression, awareness of the changing American character and an understanding of the challenges of the past and present. Students taking this course must be recommended by their ninth grade teacher and demonstrate mastery of all ninth-grade skill areas.

**1310 AMERICAN LITERATURE****Grade 10****5 Credits****Prerequisite:** English 9

The readings in this course will emphasize American literature and works that influenced American authors. As students work with the course materials, they will practice analytical, critical reading skills and viewing skills. Vocabulary development continues to include study of word recognition skills and new words in context, with emphasis on PSAT preparation. This college-prep course provides further development of skills necessary for successful achievement on the eleventh grade HSPA test of reading and writing, as well as an understanding of our country's literary heritage.

**9292 FUNDAMENTALS OF ENGLISH 10****Grade 10****5 Credits****Prerequisite:** English 9 and administrative approval

This class is designed to give students the individualized attention and practice needed to strengthen skills and strategies developed in language arts. The class focuses on analyzing and comparing major literary works, the development and use of critical thinking skills, writing as a process, the meta-cognition of reading comprehension strategies, vocabulary development, grammar, viewing and using technology as a research tool. Students will read novels and short stories of various genres, plays and poetry, to which learners will respond orally and in writing. Students will develop appropriate speaking and listening skills through class discussions and presentations. A writing portfolio will be developed including narrative, expository and persuasive essays, poetry, literature responses and research papers. Parallel tasks to prepare students for the 10<sup>th</sup> grade PSAT will be incorporated into the curriculum.

**1420(1421) AP ENGLISH LANGUAGE & COMPOSITION****Grade 11****5 Credits****Prerequisite:** American Literature Honors, Honors Criteria, and teacher recommendation

Advanced Placement English Language & Composition is designed for the student who has displayed advanced reading, writing, viewing and thinking skills. The course provides ample opportunity for students to study British literature as a reflection of the historical, cultural, social, and philosophical events which have shaped Great Britain and have influenced on American literature. Reading in this course is extensive whereby students are challenged by open-ended discussions to formulate new theories and applications. Having already mastered the basic writing skills, students are expected to continue developing a more mature writing style. The program stresses a variety of modes of discourse and examines a variety of rhetorical elements and applications.

College credit is available from Fairleigh Dickinson University for this course.

**1410 BRITISH LITERATURE****Grade 11****5 Credits****Prerequisite:** English 10

British Literature, a college-preparatory course, emphasizes critical thinking skills to analyze major works of literature. Readings include works by Chaucer, Shakespeare, Golding, and other major authors, with an emphasis on nineteenth and twentieth-century works. These readings emphasize British literature and its influence on our own literary heritage. Student writing is centered on analysis of themes and characters. Students will continue to experience vigorous skill building for mastery in the areas of expository writing, editing, viewing and research. Vocabulary work continues to emphasize preparation for the SAT.

**9293 FUNDAMENTALS OF ENGLISH 11****Grade 11****5 Credits****Prerequisite:** English 10 and administrative approval

This class is designed to give students the individualized attention and practice needed to strengthen skills and strategies developed in language arts. The class focuses on analyzing and comparing major literary works with emphasis on themes and characters. Students will continue to develop skills in the following areas: critical thinking, writing as a process, the meta-cognition of reading comprehension strategies, vocabulary development, grammar, viewing and using technology as a research tool. Students will read novels and short stories of various genres, to which learners will respond orally and in writing. Students will develop appropriate speaking and listening skills through class discussions and presentations. A writing portfolio will be developed including narrative, expository and persuasive essays, poetry, literature responses and research papers. Parallel tasks to prepare students for the verbal and writing portion of the SAT will be incorporated into the curriculum.



**1520(1521) AP ENGLISH LITERATURE & COMPOSITION**                      **Grade 12**                      **5 Credits**

**Prerequisite:** AP English Language & Composition, Honors Criteria and teacher recommendation

In Advanced Placement English Literature students will engage in the careful reading of literary works as they develop critical standards for the appreciation of literature. To achieve these goals, students will study the individual work, its language, character, and themes, as well as its structure and meaning. Additionally, students will continue to practice writing, learning to expand their modes of discourse, viewing and rhetorical strategies. Since the course is designed for students who have demonstrated outstanding ability in English, a high degree of class participation is required.

College credit is available from Fairleigh Dickinson University for this course.

**1510 THEMES IN WORLD LITERATURE**    **Grade 12**    **5 Credits**

**Prerequisite:** English 11

Designed for senior college-bound students, this course will provide them with the opportunity of looking into other cultures, ancient and modern, in order to increase understanding of major themes in world literature: the search for identity, alienation, war, death and dying. Techniques in expository writing, grammar, research, viewing and vocabulary skills will be integrated with the study of literature. Writing a research paper is a course requirement.

**9294 FUNDAMENTALS OF ENGLISH 12**    **Grade 12**    **5 Credits**

**Prerequisite:** English 11 and administrative approval

This class is designed to give students the individualized attention and practice needed to strengthen skills and strategies developed in Language Arts. The class focuses on analyzing and comparing major literary works, with an emphasis on understanding the major themes in world literature. Students will continue to develop skills in the following areas: critical thinking, writing as a process, the meta-cognition of reading comprehension strategies, vocabulary development, grammar, viewing and using technology as a research tool. Students will read novels and short stories of various genres and respond orally and in writing. Students will develop appropriate speaking and listening skills through class discussions and presentations. A writing portfolio will be developed including narrative, expository and persuasive essays, poetry, and literature responses. Emphasis will be placed on writing a research paper. Parallel tasks to prepare students for the verbal and writing portion of the SAT will be incorporated into the curriculum.

**ENGLISH ELECTIVES**

The following courses are designed as auxiliary electives and may be taken *in addition* to the mandatory five credits of required English per year. They are intended to offer an opportunity to explore areas of special interest, to improve skills in a specific field such as writing, or simply to enrich the student's background.

**1607 CREATIVE WRITING I**    **Grade 9, 10, 11, 12**    **2.5 Credits**

**Prerequisite:** None

This course includes readings and discussion of the various techniques of writing. Students will be encouraged to make contributions to the school's literary magazine, and will learn to reshape their literary contributions in conjunction with constructive criticism offered.

**1608 CREATIVE WRITING II**    **Grade 10, 11, 12**    **2.5 Credits**

**Prerequisite:** English 9, Creating Writing I

This course provides students with opportunities to practice various modes of creative writing as well as to develop habits of observation and experimentation that best suit the individual's writing purpose. Students will contribute to the school's literary magazine.

**1609 CREATIVE WRITING III**    **Grade 11, 12**    **2.5 Credits**

**Prerequisite:** English 10, Creative Writing I and II

This course provides students with opportunities to expand skills, further their voice, and explore more advanced modes of composition and creative writing. Students will maintain a writing portfolio which reflects their development as writers and will contribute to the school's literary magazine. Upon successful completion of this course, a student may wish to repeat this course for additional credit.

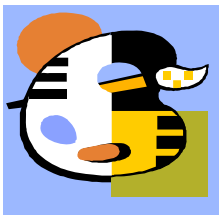
<b>1617 EXPRESS YOURSELF</b>	<b>Grade 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> teacher recommendation		
This course is for students who want to gain mastery in the communication process. The workshop approach of this elective will help students to develop more sophisticated strategies in both spoken and written forms. Every one of us has something to say, and this course will help students present those ideas more effectively. Students who test below proficient on standardized testing will automatically be scheduled for this course; however, any student may opt to take this course. This course is not included in the numerical grade computation. Grades are reflected as P/F.		
<b>1615 ACTING IN THE PERFORMING ARTS I</b>	<b>Grade 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
Designed for the student who would like to explore the fascinating world of theatre, this course offers instruction in improvisation, pantomime, voice and diction, and acting. Students will be given the opportunity to work alone and in groups in the presentation of dramatic monologues, oral interpretations, scenes, and, time permitting, a short play. Students will also be introduced to stage and set design. This course will count towards the graduation requirements in the performing arts.		
<b>1616 ACTING IN THE PERFORMING ARTS II</b>	<b>Grade 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> Acting in the Performing Arts I		
Students will continue exploration of improvisation, pantomime, dramatic monologues and oral interpretations. In addition, students will select and act scenes from various plays. Time permitting, students will direct and perform a one-act play. This course will count towards the graduation requirement in the performing arts. Upon successful completion of this course, a student may wish to repeat this course for additional credit.		
<b>1624 THEATER SPORTS</b>	<b>Grade 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
This course provides exploration and practical study of improvisation and physical acting. Students practice and learn basic principles of game theater, sketch comedy, contact improvisation, interplay, vocal and physical improvisation choreographed movement, and staged action sequences. As a culminating event, students will participate in a <i>Theatresports</i> event that uses the format of a competition for dramatic effect. Opposing teams can perform scenes based on audience suggestions, with ratings by the audience or by a panel of judges. As participants in the Theater Sports course, students will grow as performers and develop confidence that will be advantageous in school, the workplace and the athletic arena where improvisation and the ability to work collaboratively are essential skills.		
<b>1791 PUBLIC SPEAKING</b>	<b>Grade 9, 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
Studies indicate that in adult life a person will use his or her speaking skills more often than any of the other communication skills taught in school. This course will provide students with the opportunity to develop and practice the skills of public speaking to include writing, performing, and critiquing a speech. In addition, students will expand their knowledge of effective rhetorical strategies, interpersonal communication, oral interpretation and debate.		
<b>1700 SAT PREPARATION</b>	<b>Grade 11</b>	<b>2.5 Credits</b>
<b>Prerequisites:</b> English 9, Algebra I and Geometry		
The purpose of this course is to prepare college-oriented students for the Scholastic Aptitude Test, reduce test anxiety, and build effective test taking strategies. This class will be taught by both an English and a mathematics teacher in order to expose students to all aspects of the test. Skills and concepts tested will be reviewed as students become familiar with the format of the test and with effective strategies for approaching each type of question. Active participation by the student in the class activities and the completion of assignments is necessary for successful preparation for the SAT and mastery of class proficiencies. This course is not included in the numerical grade computation. Grades are reflected as P/F.		
<b>1621 PULP FICTION</b>	<b>Grade 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> English 9		
Students taking this course will have the opportunity to read current best sellers ("Pulp Fiction") with an eye toward the function of a best seller in society: setting trends, mirroring popular culture, discussing topical issues, and addressing questions posed by modern society. This course will stress that reading for pleasure, as well as for enlightenment or information, is a lifelong skill. It will introduce students to various genres; mystery, historical, and psychological novels as well as works of nonfiction, and hopefully, broaden their awareness of reading for entertainment. <b><i>This class is offered on alternate years, and it will not be offered in the school year 2016-2017.</i></b>		

**1711 AT THE MOVIES****Grade 11, 12****2.5 Credits****Prerequisite:** None

This course in cinema is designed to enhance the student's knowledge and appreciation of film. Students will develop an understanding of the history of film and the craft of movie production. Students will become aware of the social, historical, cultural, and artistic influence of film through the study of various film genres – from silent to talkies, comedies to dramas, epic and historical films to science fiction. At the Movies will develop the student's critical appreciation of film, as well as broadening his or her knowledge. *This class is offered on alternate years, and it will be offered in 2016-2017.*

**1212 FRESHMEN FOCUS****Grade 9****2.5 Credits****Prerequisite:** None

This course is designed to prepare students entering high school with the necessary groundwork that is essential for success. The components of this course are designed to guide students in discovering a balanced awareness of themselves on personal, social, academic and societal levels. Particular attention will be given to character development, personal management and interpersonal skills to be successful. Students are provided with the opportunity to explore career opportunities and assess individual aptitudes and interests so that they can make informed decisions regarding educational and career choices. Throughout the course students will develop a portfolio that will assist them, as well as guidance counselors, in managing their future success. (This course is a requirement for all freshmen.)



## Visual and Performing Arts

### 7011 INTRODUCTION TO ART

Grades 9, 10, 11, 12

5 Credits

**Prerequisite:** None

This is an introductory basic level course open to all high school students, which can fulfill the fine arts requirement. It is recommended for everyone whether they are planning to take only one year of art in high school, or planning a future career in art and plan to take the full sequence of art courses offered. The course is centered around the principles and elements of art as they apply to various art projects of both a two or three-dimensional nature. Experiences are provided in a variety of media and individuality and self-expression are encouraged. Portfolios of artwork are kept to show personal growth and development throughout the year.

### 7202 CERAMICS AND CLAY SCULPTURE I

Grades 10, 11, 12

2.5 Credits

**Prerequisite:** None

This course provides an introductory ceramic experience. The students will be involved in clay sculpture from miniature to large scale and from representational to free form. Pieces may be functional or decorative. Students will develop their ability to work in pinch, slab and coil methods, as well as experiment with the use of molds, glaze techniques, and throwing on a potter's wheel.

### 7251 CERAMICS AND CLAY SCULPTURE II

Grades 10, 11, 12

2.5 Credits

**Prerequisite:** Ceramics and Clay Sculpture I

This course is for students who want to do further study in ceramics. Students will use the same basic methods and more sophisticated techniques will be used to produce both functional and sculptural ceramic pieces.

### 7054 HIGH SCHOOL ART

Grades 10, 11, 12

5 Credits

**Prerequisite:** Introduction to Art

This is a course designed as a developmental continuation of Introduction to Art. Students will continue to explore a variety of media. It provides a sequence of project activities that require increasingly complex responses from students. Learned skills are reinforced resulting in a more mature form of expression both technically and creatively. Portfolios of artwork are assembled and evaluated at the end of the year.

### 7071 COMPUTER ART

Grades 10, 11, 12

2.5 Credits

**Prerequisite:** Introduction to Art

This course uses the computer as an art tool with which to create artwork, utilizing PhotoShop, and other art programs. Projects introduce the students to the various applications of computers in the art world including graphics, print advertisements, and illustration.

### 7101 ADVANCED ART

Grades 11, 12

2.5 Credits

**Prerequisite:** High School Art

This course continues the developmental sequence of art courses for students with specific interest in visual art. Students will be presented several art assignments for which designing and implementing solutions with creativity, organization, artistic skill, and critical thinking are necessary. Students learn how to make the appropriate choice of media and technique for each assignment. Portfolios of artwork are assembled and evaluated at the end of the semester.

### 7106 PORTFOLIO

Grades 11, 12

2.5 Credits

**Prerequisite:** Advanced Art

This course continues the developmental sequence of art courses and is designed for students who intend to pursue art at the post-secondary level with specific interest in visual art. Students will develop a variety of art assignments which are designed with an individual focus that implement solutions with creativity, organization, artistic skill and critical thinking. Students learn how to make the appropriate choice of medium and technology to create portfolio quality pieces for submission to colleges.

### 7402 PAINTING

Grades 10, 11, 12

2.5 Credits

**Prerequisite:** Introduction to Art

In this course students continue to develop the principles and elements of art through painting. Composition, color theory, and the ability to work in a variety of paint media are emphasized. Individual experimentation and the development of a personal style are encouraged.

**7512 CONCERT BAND I****Grades 9, 10, 11, 12****5 Credits****Prerequisite:** Middle School Band or Audition

The Concert Band builds upon the fundamentals presented in the middle school. It offers the study and performance of a wide variety of music including works of the master composers, rock, show tunes, jazz, and more. Each student will gain knowledge of musical notation, transposition and orchestration invaluable in their further study of music. During the year, selected students may audition for the County, Regional and All State Bands. The Concert Band performs at Holiday, Spring concerts and graduation during the school year. The Concert Band forms the nucleus for the Park Ridge Marching Band, which performs at competitions, festivals, football games and parades. Upon successful completion of this course, a student may choose to progress to the next level.

**7513 CONCERT BAND II****Grades 10, 11, 12****5 Credits****Prerequisite:** Concert Band I or Audition

The Concert Band builds upon the fundamentals presented in Concert Band I. It offers the study and performance of a wide variety of music including works of the master composers, rock, show tunes, jazz, and more. Each student will gain knowledge of musical notation, transposition and orchestration invaluable in their further study of music. During the year, selected students may audition for the County, Regional and All State Bands. The Concert Band performs at Holiday, Spring concerts and graduation during the school year. The Concert Band forms the nucleus for the Park Ridge Marching Band, which performs at competitions, festivals, football games and parades. Upon successful completion of this course, a student may choose to progress to the next level. Students are also encouraged to audition and play in college instrumental groups.

**7514 CONCERT BAND III****Grades 11, 12****5 Credits****Prerequisite:** Concert Band II or Audition

The Concert Band III builds upon the fundamentals presented in Concert Band II. It offers the study and performance of a wide variety of music including works of the master composers, rock, show tunes, jazz, and more. Each student will gain knowledge of musical notation, transposition and orchestration invaluable in their further study of music. During the year, selected students may audition for the County, Regional and All State Bands. The Concert Band performs at Holiday, Spring concerts and graduation during the school year. The Concert Band forms the nucleus for the Park Ridge Marching Band, which performs at competitions, festivals, football games and parades. Upon successful completion of this course, a student may choose to progress to the next level. Students are also encouraged to audition and play in college instrumental groups.

**7515 CONCERT BAND IV****Grades 12****5 Credits****Prerequisite:** Concert Band III or Audition

The Concert Band IV builds upon the fundamentals presented in Concert Band III. It offers the study and performance of a wide variety of music including works of the master composers, rock, show tunes, jazz, and more. Each student will gain knowledge of musical notation, transposition and orchestration invaluable in their further study of music. During the year, selected students may audition for the County, Regional and All State Bands. The Concert Band performs at Holiday, Spring concerts and graduation during the school year. The Concert Band forms the nucleus for the Park Ridge Marching Band, which performs at competitions, festivals, football games and parades. Upon successful completion of this course, a student may choose to progress to the next level. Students are also encouraged to audition and play in college instrumental groups.

**7604 VOCAL MUSIC I****Grades 9, 10, 11, 12****2.5/5 Credits****Prerequisite:** None

Vocal music classes are offered in grades nine to twelve and are structured to develop advanced choral techniques. These skills include singing in 4 - 6 parts, lessons in diction, vowel placement, projection, and support. The literature for singing includes a variety of styles from classical and Broadway, to jazz, and other popular idioms. When possible, a field trip to see a musical will be taken. Upon successful completion of this course, a student may choose to progress to the next level.

**7605 VOCAL MUSIC II****Grades 10, 11, 12****2.5/5 Credits****Prerequisite:** Vocal Music I

Vocal music classes are offered in grades nine to twelve and are structured to develop advanced choral techniques. These skills include singing in 4 - 6 parts, lessons in diction, vowel placement, projection, and support. The literature for singing includes a variety of styles from classical and Broadway, to jazz, and other popular idioms. When possible, a field trip to see a musical will be taken. Upon successful completion of this course, a student may choose to progress to the next level.

<b>7606 VOCAL MUSIC III</b>	<b>Grades 11, 12</b>	<b>2.5/5 Credits</b>
<b>Prerequisite:</b> Vocal Music II		
Vocal music classes are offered in grades nine to twelve and are structured to develop advanced choral techniques. These skills include singing in 4 - 6 parts, lessons in diction, vowel placement, projection, and support. The literature for singing includes a variety of styles from classical and Broadway, to jazz, and other popular idioms. When possible, a field trip to see a musical will be taken. Upon successful completion of this course, a student may choose to progress to the next level.		
<b>7607 VOCAL MUSIC IV</b>	<b>Grades 12</b>	<b>2.5/5 Credits</b>
<b>Prerequisite:</b> Vocal Music III		
Vocal music classes are offered in grades nine to twelve and are structured to develop advanced choral techniques. These skills include singing in 4 - 6 parts, lessons in diction, vowel placement, projection, and support. The literature for singing includes a variety of styles from classical and Broadway, to jazz, and other popular idioms. When possible, a field trip to see a musical will be taken.		
<b>7504 AP Music Theory</b>	<b>Grades 11, 12</b>	<b>5 Credits</b>
<b>Prerequisite:</b> Vocal Music, Music Appreciation, Instrumental Music or Music Ensemble and teacher recommendation.		
The ultimate goal of the AP Music Theory course is to develop a student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. AP Music Theory presents skills and techniques that serve as a great supplement to performance ensembles. The course will seek first to instill mastery of the rudiments and terminology of music, including hearing and notating: pitches, intervals, scales and keys, chords, meter, rhythm. Students will complete compositions and other creative music projects as part of the course requirements. The coursework is designed to prepare students to take the AP Music Theory Exam. <i>This class is offered in alternate years, and will not be offered in the 2016-2017 school year.</i>		
<b>7509 MUSIC PRODUCTION**</b>	<b>Grades 9-12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
Music Production will introduce students to music theory concepts and provide preparation for students who might like to pursue a further education or a career in music. It will also educate students on the business side of the industry, including an introduction to modern music recording. The course will include units on music theory, audio recording, engineering and production, as well as a unit on ethical issues surrounding the music business. <i>This course will not be offered in the 2016-2017 school year.</i>		
<b>7034 MUSIC APPRECIATION</b>	<b>Grades 9-12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
Students will explore the history and evolution of music, learn the fundamentals and elements of music and musical notations, and the contributions of both historical and popular musical artists and composers on social movements. A variety of lessons, activities, projects, and discussions will help to develop an awareness and appreciation of music that will develop not only critical thinking and problem solving skills, but life-enriching skills as well. Additionally, this course will introduce students to concepts that will be more fully developed in AP Music Theory. <b>Pending BOE approval.</b>		
<b>7035 PIANO I</b>	<b>Grades 9-12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
Piano I is a course designed to develop a beginner student's keyboard-playing technique through the application of basic music theory concepts. Topics include sight-reading, ear-training, scales, chord progressions, transposition, improvisation and analysis. This course will develop student's musicianship in a tactile and exciting way and provide a foundation for further musical studies, including AP Music Theory. The instructor will assign literature based on each student's individual skills. Pending BOE Approval.		
<b>6452 MEDIA PRODUCTION I**</b>	<b>Grades 9-12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
Media Production I is an introduction to video editing and school productions. Students will use video cameras, iMac computers, and Final Cut software to produce school related video content and news stories about Park Ridge High School. In addition to computer skills, students will work on creative idea development and progressing their public speaking skills.		

**6449 MEDIA PRODUCTION II\*\*****Grades 9-12****2.5 Credits****Prerequisite:** Media Production I

Media Production II offers the students an opportunity to explore advanced video editing skills. Productions are completed more often and with higher quality in this course, which focuses on the execution of creative and editorial ideas. Students will learn how to produce higher level content by exploring deeper editing tools and techniques.

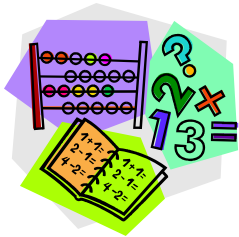
**6447 MEDIA PRODUCTION III\*\*****Grades 10-12****2.5 Credits****Prerequisite:** Media Production II

In Media Productions III, students that have completed 5 full credits of Media Production will continue to produce editorial and creative content for Park Ridge High School. In addition to exploring higher level video production skills, students will take on leadership roles within the class to help direct other students' video content. Media Production III students will assist other media students and serve as student mentors in their class.

**6447 MEDIA PRODUCTION III\*\*****Grades 10-12****2.5 Credits****Prerequisite:** Media Production II

In Media Productions III, students that have completed 5 full credits of Media Production will continue to produce editorial and creative content for Park Ridge High School. In addition to exploring higher level video production skills, students will take on leadership roles within the class to help direct other students' video content. Media Production III students will assist other media students and serve as student mentors in their class.

\*\*This course will fulfill the requirements for Practical Arts.



# MATHEMATICS

## **2230 ALGEBRA IB:**

**Grade 9**

**5 Credits**

**Prerequisite:** Algebra 1a or Algebra I (upon administrative recommendation)

This course is the second part of a two year Algebra I course. In this course students will expand upon their foundation of algebra skills and concepts learned in Algebra 1a (taken in 8<sup>th</sup> grade). They will develop problem solving techniques and strategies. They will learn to communicate mathematics and improve their critical thinking skills as they learn to solve systems of equations. Specifically, students will learn to solve equations containing quadratics, fractions and radicals. They will recognize and manipulate powers and roots, and study coordinate geometry and probability.

## **9281 FUNDAMENTALS OF ALGEBRA IB**

**Grade 9**

**5 Credits**

**Prerequisite:** Algebra 1a and administrative approval

This course is the second part of a two year Algebra I course designed to give students the individualized attention and practice they need to strengthen and expand upon their foundation of algebra skills and concepts. They will develop techniques and problem solving strategies. They will learn to communicate mathematics and improve their critical thinking skills. Specifically, they will learn to solve equations containing quadratics, fractions and radicals. They will recognize and manipulate powers and roots. They will study coordinate geometry and probability and will learn to solve systems of equations.

## **2361 PLANE GEOMETRY**

**Grade 10**

**5 Credits**

**Prerequisite:** Algebra Ib, Algebra I

This course is offered to students who wish to strengthen their math skills, and to fulfill a college requirement for a second year math course. Students will be able to interpret and apply spatial relationships, relate algebraic and geometric concepts and apply properties of logic when developing mathematical arguments. Students will be prepared for future math courses, state assessments and the ACT, and SAT using strategies suited to their individual learning needs.

## **2220 GEOMETRY HONORS**

**Grades 9, 10**

**5 Credits**

**Prerequisite:** Algebra I, Honors Criteria and teacher recommendation.

Areas of prime importance in this course include nature of proof, parallel line properties, congruency concepts, similarity concepts, transformations, ratio and proportion, circle relationships, regular polygon properties and concepts, intuitive solid geometry concepts and a reinforcement of advanced algebra I skills. The study of geometry is pursued along more intensified avenues and the student is expected to study geometry from a more structured point of view.

## **2340 GEOMETRY**

**Grades 9, 10**

**5 Credits**

**Prerequisite:** Algebra I or Algebra Ia and Ib

Areas of prime importance in this course include nature of proof, parallel line properties, congruency concepts, similarity concepts, transformations, ratio and proportion, circle relationships, regular polygon properties and concepts, intuitive solid geometry concepts and a reinforcement of basic Algebra I skills. The course also presents the various types of reasoning and coordinate geometry concepts.

## **9286 FUNDAMENTALS OF GEOMETRY**

**Grade 10**

**5 Credits**

**Prerequisite:** Algebra I or Fundamentals of Algebra 1a and Algebra 1b and administrative approval

This course will include the study of parallel line properties, congruency concepts, transformations, similarity concepts, ratio and proportion, circle relationships, regular polygon properties and concepts, intuitive geometry concepts, and a reinforcement of basic algebra skills.

## **2550 INTERMEDIATE ALGEBRA II**

**Grade 11**

**5 Credits**

**Prerequisite:** Plane Geometry, Geometry.

This course is offered to students who want to strengthen his/her math skills and to fulfill a college requirement for a third year math course. Emphases will be placed on solving and graphing equations and inequalities involving real world concepts, modeling and problem solving. Topics discussed include: systems of numbers, polynomial and rational expressions, linear equations and inequalities, quadratic functions, sequences and series and probability. Students will be prepared for state assessments and the ACT, and SAT using strategies suited to their individual learning needs.



**2350 ALGEBRA II HONORS****Grades 10, 11****5 Credits**

**Prerequisite:** Algebra I topics are expanded and studied in greater detail. Students will reinvestigate equations and inequalities, functions and relations, properties of linear and quadratics functions, systems of equations, exponential laws, and roots and irrational numbers. Polynomial, rational, exponential, and logarithmic functions will be introduced. In addition, students will study the complex number system and its properties, sequences and series, probability and data analysis, and trigonometric functions. The TI-83/84+ graphing calculator or equivalent is an integral part of the course. Students are expected to work independently and will need their own calculator for daily classroom use and assignments.

**2510 ALGEBRA II****Grade 10****5 Credits**

**Prerequisite:** Algebra I and Geometry Honors or Geometry  
Algebra I topics are expanded and studied in greater detail. Students will reinvestigate equations and inequalities, functions and relations, properties of linear and quadratics functions, systems of equations, exponential laws, and roots and irrational numbers. Polynomial, rational, exponential, and logarithmic functions will be introduced. In addition, students will study the complex number system and its properties, sequences and series, probability and data analysis, and trigonometric functions. The TI-83/84+ graphing calculator or equivalent is an integral part of the course. Students are encouraged to have their own calculator for daily classroom use and assignments.

**2355 ADVANCED ALGEBRA WITH TRIGONOMETRY****Grade 11****5 Credits**

**Prerequisite:** Algebra II

Algebra II topics are reviewed, enhanced, and studied in greater detail. Trigonometry is introduced in the second semester. The focus of the course is to prepare students for further work in mathematics and related fields of study. Students will reinvestigate equations and inequalities, functions and relations, properties of linear and quadratics functions, systems of equations, exponential laws, and roots and irrational numbers. Polynomial, rational, exponential, and logarithmic functions will be investigated, as well as the complex number system and its properties, sequences and series, probability and data analysis, and trigonometric functions. Circular and triangular trigonometry are explored. The TI-83/84+ graphing calculator or equivalent is an integral part of the course. Students are encouraged to have their own calculator for daily classroom use and assignments.

**9285 FUNDAMENTALS OF ALGEBRA II****Grades 10****5 Credits**

**Prerequisite:** Algebra Ia and Ib or Fundamentals of Algebra Ia and Ib and Plane Geometry or Fundamentals of Geometry and administrative approval

This course will include reinvestigating equations and inequalities, functions and relations, properties of the linear and quadratic functions, exponential laws, roots and irrational numbers, graphing of linear and quadratic equations and system of equations, polynomial and rational expressions. In addition, students will study the complex number system and its properties. This course is designed to give students individualized attention in the content area.

**2420 PRECALCULUS HONORS****Grades 11, 12****5 Credits**

**Prerequisite:** Algebra II Honors or Algebra II; Honors Criteria and teacher recommendation.

This course consists of a detailed study of the following topics: trigonometric, polynomial, rational, exponential, circular, inverse, and logarithmic functions, and complex numbers. As a preparation for the Calculus, limits and derivatives are covered if time permits. Vectors and matrix algebra are also studied, as well as conics, and Polar and Parametric equations. All students expecting to study Calculus should elect this course. The TI-83/84+ graphing calculator or equivalent is an integral part of the course. Students will need to have their own calculator for daily classroom use and assignments.

**2530 PRECALCULUS****Grades 11, 12****5 Credits**

**Prerequisite:** Algebra II

This course consists of a detailed study of the following topics: trigonometric, polynomial, rational, exponential, circular, inverse, and logarithmic functions, and complex numbers. Matrix algebra is also studied, as well as conics, and Polar and Parametric equations. All students expecting to study Calculus should elect this course. The TI-83/84+ graphing calculator or equivalent is an integral part of the course. Students will need to have their own calculator for daily classroom use and assignments.

**2570(2571) AP CALCULUS AB****Grade 12****5 Credits**

**Prerequisite:** Precalculus Honors or Precalculus, Honors criteria and teacher recommendation.

This course will cover the material required by the Advanced Placement Calculus Test, Level AB. The TI-83/84+ graphing calculator or equivalent is an integral part of the course. Students will need their own calculator for daily classroom use and assignments.

**2572 AP CALCULUS BC****Grade 12****5 Credits****Prerequisite:** Precalculus Honors, Honors criteria and teacher recommendation.

This course will cover the material required by the Advanced Placement Calculus Test, Level BC, which includes all of the AB topics, plus three additional units. The TI-83/84+ graphing calculator or equivalent is an integral part of the course. Students will need their own calculator for daily classroom use and assignments.

**2560 CALCULUS HONORS****Grade 12****5 Credits****Prerequisite:** Precalculus Honors or Precalculus

Topics include rates of change, limits, continuity, graphing, extremes of a function, differentiation formulas, differentials, areas under a curve, area between two curves, volumes of revolution, trigonometric differentiation and integration, scientific applications and basic theorems associated with the above topics. The course also reviews exponential and logarithmic functions and how to integrate and differentiate each. Stress is placed on use of appropriate technology and applying theory to practice. The TI-83/84+ graphing calculator or equivalent is an integral part of the course. Students are encouraged to have their own calculator for daily classroom use and assignments.

**2594 COLLEGE PREP MATH WITH STATISTICS****Grade 12****5 Credits****Prerequisite:** Passing grade in either Intermediate II or Algebra II

This is one-year course that provides students with a firm foundation on which to continue their study of mathematics in college. During the first half of the year, students are introduced to the major concepts of functions and trigonometry.

During the second half of the year, students will complete a comprehensive introduction to a project-based statistics and probability curriculum. Use of graphing calculators and online resources are essential components of this course.

**2592 STATISTICS****Grades 11, 12****5 Credits****Prerequisite:** Algebra II

Probability & Statistics is a quantitative and qualitative, hands-on, project based course that will introduce the student to basic statistical concepts and elementary probability. Students will conduct experiments and surveys and use the Internet to gather and interpret real world data. Extensive use will be made of the TI-83/84+ calculator. Students are encouraged to have their own calculator for daily classroom use and assignments.

**2593 AP STATISTICS****Grades 11, 12****5 Credits****Prerequisite:** Algebra II Honors or Precalculus, Honors criteria and teacher recommendation.

This is a one-year, non-calculus based introductory statistics course. Statistics is an integral part of such careers as engineering, sociology, psychology, health, the sciences, and business. The course will cover a) the exploratory analysis of data, b) the planning of a study, c) producing models using probability theory and simulation, and d) the use of statistical inference. A great deal of work is based upon using the TI-83/84+ graphing calculator.

**9223 LIFE SKILLS MATH (9)****5 Credits****Prerequisite:** Administrative approval

Life Skills Math is designed to provide a comprehensive approach that will prepare the student for functional math skills necessary for success in daily living. Topics covered will include computations, basic banking and math in the community.

**9224 LIFE SKILLS MATH (10)****5 Credits****Prerequisite:** Administrative approval

This course will continue to provide and expand instruction covered in Life Skills Math 9. These skills are essential in preparing the student for success in daily living. Topics covered will include application of basic math skills, managing a household, job skills, basic banking and math in the community.

**9227 LIFE SKILLS MATH (11)****5 Credits****Prerequisite:** Administrative Approval

This course will continue to provide and expand instruction covered in life Skills Math 10. These skills are essential in preparing the student for success in daily living. Topics covered will include application of basic computations, banking, budgeting, shopping, saving and overall money management. Individual goals identified for transition planning will also be addressed.

**9228 LIFE SKILLS MATH (12)****5 Credits****Prerequisite:** Administrative Approval

This course will continue to provide and expand instruction covered in life Skills Math 11. These skills are essential in preparing the student for success in daily living. Topics covered are a review of everyday finances for personal living, fundamental computations, banking, budgeting, spending, saving and overall money management strategies that are essential to the consumer. Individual goals identified for transition planning will also be addressed.

**1700 SAT PREPARATION****Grade 11****2.5 Credits****Prerequisite:** English 9, Algebra I and Geometry

The purpose of this course is to prepare college-oriented students for the Scholastic Aptitude Test, reduce test anxiety, and build effective test taking strategies. This class will be taught by both an English and a Mathematics teacher in order to expose students to all aspects of the test. Skills and concepts tested will be reviewed as students become familiar with the format of the test and with effective strategies for approaching each type of question. Active participation by the student in the class activities and the completion of assignments are necessary for successful preparation for the SAT and mastery of class proficiencies. This course is not included in the numerical grade computation. Grades are reflected as P/F.

**9780 MATH PREP****Grade 9, 10, 11, 12****2.5 Credits****Prerequisite:** None

Math Prep is offered to those students who are in need of additional assistance in their overall knowledge of mathematics and/or preparation for state assessments. Emphases include test taking strategies, mathematical computation, problem solving and critical thinking skills. Students who test below proficient on standardized testing will automatically be scheduled for this course; however, any student may opt to take this course. This course is not included in the numerical grade computation. Grades are reflected as P/F.



## PHYSICAL EDUCATION/HEALTH

The physical education program provides a wide range of educational activities. It promotes leadership and sportsmanship, assists the student in his or her emotional, physical, and social development and provides opportunities for the development of individual skills. Every student will have instruction in a variety of individual and team sports, body mechanics, and fitness.

In all physical education courses, students will be expected to demonstrate objectives in the affective domain which include responsible behavior, sportsmanship, student-directed activity, and appreciation for sport/physical activity. The student will also demonstrate proficiencies in the physical domain which includes basic sport skills, lifetime sport skills, and components of fitness and dance. In the cognitive domain, a student will become aware of safety factors, knowledge associated with each activity, team building and problem solving skills and strategies. Each student must complete and receive credit for physical education in grades nine through twelve. In addition, he or she must complete and receive credit in health. The topics for Health are:

<b>Grade 9</b>	Sexuality Education
<b>Grade 10</b>	Driver Education
<b>Grade 11</b>	Current Health Issues
<b>Grade 12</b>	Family Living

Courses offered in the physical education program for three out of the four marking periods each year include:

### GRADE 9 (8213)

Basketball	Fitness	Soccer	Weight training
Bowling	Large group games	Softball	Volleyball
Dance	Power walking	Speedball	
Football	Project Adventure	Tennis	
Frisbee golf	Recreation sports/activities	Ultimate frisbee	

### GRADE 10 (8313)

Basketball	Fitness	Soccer	Weight training
Bowling	Large group games	Softball	Volleyball
Dance	Power walking	Speedball	
Football	Project Adventure	Tennis	
Frisbee golf	Recreation sports/activities	Ultimate frisbee	

### GRADE 11 (8413)

Basketball	Large group games	Soccer	Volleyball
Bowling	Paddleball	Softball	Weight training
Fitness	Power walking	Speedball	Yoga
Floor hockey	Project Adventure	Tennis	
Football	Recreation games/activities	Ultimate frisbee	

### GRADE 12 (8514)

Basketball	Large group games	Soccer	Volleyball
Bowling	Paddleball	Softball	Weight training
Fitness	Power walking	Speedball	Yoga
Floor hockey	Project Adventure	Tennis	
Football	Recreation games/activities	Ultimate frisbee	



## BUSINESS EDUCATION\*

<b>6502 PRINCIPLES OF BUSINESS</b>	<b>Grades 10, 11, 12</b>	<b>5 Credits</b>
<b>Prerequisite:</b> None		
This course is designed to provide an understanding of basic business knowledge. Types of business organizations, business ownership, and the stock market are some of the topics included. It is designed to give students a broad understanding of the business world. Students who are considering a college major in business are encouraged to take this class. Contemporary issues are discussed as well as factors that affect the economy and the responsibilities of business to society.		
<b>6534 ACCOUNTING I-A</b>	<b>Grades 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
This one semester course in accounting teaches accounting basics including debits, credits, the accounting equation and journalizing of business transactions for a service business. This course is ideally suited for the student who will be pursuing business courses in college, or possess a desire to run their own business one day. The use of accounting software will be introduced in this course.		
<b>6535 ACCOUNTING I-B</b>	<b>Grades 10, 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> Accounting I-A		
This semester course is a follow up to Accounting I-A, extending study to merchandising businesses. It includes the preparation of financial statements for both service and inventory businesses. This course is designed for students seeking to build a solid accounting foundation for college. Use of accounting software is integrated throughout this course.		
<b>6592 BUSINESS AND PERSONAL LAW</b>	<b>Grades 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
This course is designed to develop an understanding of law involving an individual's rights and obligations as a student, worker, and a citizen. Criminal law, problems in society, contract law, banking law, court enforcement procedures, consumer law, marriage and divorce and illustrative court case problems are some of the topics studied. This is a practical course, which will demonstrate to the students that almost every action is guided by some type of law. Law is stressed as it applies to everyday use and to the most common business and personal transactions.		
<b>4431 ECONOMICS</b>	<b>Grades 11, 12</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
This is a survey course designed to acquaint students with terminology, thought, institutions, and theory. Emphasis is placed on current problems in relation to past economic factors, and the manner in which people have solved past problems and are dealing with present ones. This course is strongly recommended for all college-bound students; particularly those interested in law, accounting, government, political science, etc. Note: This course, while offered through the Business Department, has an interdisciplinary focus.		
<b>6596 FINANCIAL LITERACY</b>	<b>Grade 9</b>	<b>2.5 Credits</b>
<b>Prerequisite:</b> None		
This course is designed to prepare students to become financially literate and financially responsible both in their personal lives as well as within their community. Components of the course are intended to assist students to develop a framework for financial literacy. Students explore managing money, credit and debt, planning, saving and investing, being a critical consumer, managing risk, and understanding the use wealth for the betterment of the community. The course includes simulations of investing and acting as a financial consultant to others while also promoting active citizenship and charitable giving in the global economy. (This course is a requirement for all freshmen. It is an elective for seniors.)		
* Business courses fulfill the graduation requirement for Practical Arts.		
<b>6597 MARKETING IN THE 21<sup>ST</sup> CENTURY</b>	<b>Grades 9, 10, 11, 12</b>	<b>2.5 credits</b>

**Prerequisite:** None

This half-year course provides an understanding of current trends in Marketing. Students will examine how consumer trends, technology and globalization have changed marketing in recent decades. For example, there is universal recognition of products from Coca-Cola, Levis, The GAP, Sony, and McDonalds. The strategies used by these corporations, among others, and the student's individual perspective on being part of the global market will be incorporated into the study of marketing in the 21<sup>st</sup> century. In addition, students will work towards the development of the school store. Career opportunities will be explored, and students will be eligible to join DECA, an international association of high school and college students studying marketing that provides opportunities to compete on the regional, state and national level. Students apply skills learned through the operation of the school store.

**6598 ADVERTISING AND DISPLAY**

**Grades 9, 10, 11, 12**

**2.5 credits**

**Prerequisite:** None

The selling of goods, services, and ideas involves marketing the **right** product at the **right** time at the **right** place at the **right** price. In this course, students will develop an understanding of the steps of a sale (ANPOCS), the psychology of selling, customer buying motives, and other principles of selling, branding and advertising products. This course will offer students opportunities to develop commercials, create displays, analyze television and radio ads, as well as look at the exciting world of advertising and visual merchandising. Central to this course is the development of the school store. Career opportunities will be explored, and students will be eligible to join DECA, an international association of high school and college students studying marketing that provides the required skills to compete on the regional, state and national level. Students apply skills learned through the operation of the school store.

**6599 ENTERTAINMENT AND SPORTS MARKETING**

**Grades 9, 10, 11, 12**

**2.5 credits**

**Prerequisite:** None

Entertainment and sports influence so much of everyday popular culture. This course provides students with the opportunity to apply basic economic and marketing principles to the fields of entertainment (music, fashion, film, recreation) and sports. Students will explore how history and economics have shaped the marketing principles in these segments of society. Students will learn about sponsorship, promotion, legal contracts, event marketing, and communications. Business and marketing plans will be devised, advertising will be developed, and social and ethical responsibilities will be discussed. Career opportunities will be explored, and students will be eligible to join DECA, an international association of high school and college students studying marketing that provides opportunities to compete on the regional, state and national level.

**6601 ADVANCED MARKETING**

**Grades 11, 12**

**2.5 Credits**

**Prerequisite:** Advertising, Sports, or 21<sup>st</sup> Century Marketing, and Teacher Recommendation

This is a half-year marketing research course for students who would like a challenging follow-up to Marketing in the 21<sup>st</sup> Century, Advertising, or Entertainment and Sports Marketing. Students will extend their understanding of and apply principles of marketing research, product pricing, promotion, marketing management, and entrepreneurship through real world scenarios and case studies. In addition, each student is responsible for completing a research paper that they will present and defend in DECA competitions. Students will select local businesses and consultants for their research papers. All submissions will be organized, planned and prepared in class. Students will join DECA, the co-curricular marketing club, and participate in regional competition. If successful, students will have the opportunity to compete at the state and national levels.

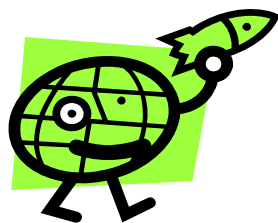
**6602 ADVANCED MARKETING II**

**Grade 12**

**2.5 Credits**

**Prerequisite:** Advanced Marketing

This is a half-year marketing research course for students who would like to focus and explore a new marketing topic that was previously not covered in Advanced Marketing. Students will extend their understanding of and apply principles of marketing research, product pricing, promotion, marketing management, and entrepreneurship through real world scenarios and case studies. In addition, each student is responsible for completing a research paper that they will present and defend in DECA competitions. Students will select local businesses and consultants for their research papers. All submissions will be organized, planned and prepared in class. In addition, all students will take leadership roles within the class to help their peers formulate and execute their projects. They will join DECA, the co-curricular marketing club, and participate in regional competition. If successful, students will have the opportunity to compete at the state and national levels.



## SCIENCE

### 3200 BIOLOGY HONORS

Grade 9

6 Credits

**Prerequisite:** Science 8; Honors Criteria and teacher recommendation.

This course is designed to provide the student with an in-depth study of molecular and cellular biology. The laboratory activities are correlated to the class work and individual student projects. Major environmental influence and its effect on ecological balance as well as individual and species survival are studied. An in-depth view of genetics and an emphasis on current research will be discussed. Some dissection is part of this course.

### 3210 BIOLOGY

Grade 9

6 Credits

**Prerequisite:** Science 8

This course is designed to afford the student an introduction to molecular and cellular biology, stressing a relationship between chemical and biotic activities. The laboratory activities are correlated to the class work and individual student projects. Major environmental influences and their effect on ecological balance as well as individual and species survival are considered in terms of contemporary information. The presentation of genetics includes current trends in gene manipulation and understanding of genetic mutations. Some dissection is a part of this course.

### 3218 FUNDAMENTALS OF BIOLOGY

Grade 9, 10

6 Credits

**Prerequisite:** Science 8 or Fundamentals of Science 8 and administrative approval.

This course is designed to provide the student with an introduction to molecular and cellular biology, stressing a relationship between chemical and biotic activities. The laboratory activities are correlated to the class work and individual student projects. Major environmental influences and their effect on ecological balance as well as individual and species survival are considered in terms of contemporary information. Students will be given individualized attention in order to grasp essential content of this course.

### 3220 CHEMISTRY HONORS

Grade 10

6 Credits

**Prerequisite:** Biology Honors or Biology; Algebra I

**Requisite:** Enrolled in Algebra II Honors; Honors Criteria and teacher recommendation.

Chemistry Honors is a college preparatory program offered as an introduction to chemical theory and principles. It combines math and science skills. Emphasis is on an integration of theory with practical laboratory experience. Attention is given to problem solving based upon a concept building approach. This is the next course in the accelerated science program following Biology Honors.

### 3310 CHEMISTRY

Grade 10

6 Credits

**Prerequisite:** Biology Honors or Biology; Algebra I, Algebra Ib

**Requisite:** Enrolled in Geometry, Intermediate Algebra II or Algebra II

This course is designed as a college preparatory program and is an introductory study of chemistry in its modern theoretical development. Both chemical theory and descriptive chemistry are presented with emphasis on the structure and periodicity of the elements. Laboratory experiments are of a problem-solving, open-ended nature. Weight relations in compounds and reactions are explored to a large extent (mostly ratios and proportions).

### 3305 CONCEPTUAL CHEMISTRY

Grade 10

6 Credits

**Prerequisite:** Biology; Algebra I, Algebra Ib

**Requisite:** Enrolled in Plane Geometry

Conceptual Chemistry is a college preparatory lab based course that will discuss key chemical concepts. The two main goals of the course are to develop a conceptual framework for modern chemistry and to gain experience and an appreciation of chemistry through experimentation and inquiry.

### 3316 FUNDAMENTALS OF CHEMISTRY

Grades 10, 11 or 12

6 Credits

**Prerequisite:** Biology, and Algebra 1, Fundamentals of Algebra 1, or Life Skills Math and Administrative approval  
This course is a practical chemistry course designed for students who desire an understanding of chemical concepts and applications. Students will explore the scientific investigative process, classify types of matter and energy, atomic structure, the periodic table, nomenclature, chemical reactions and balancing chemical equations. Students will be able to use mathematical concepts to solve real-world problems. Hands-on application of concepts will be stressed.

### **3450 PHYSICS HONORS**

**Grades 11, 12**

**6 Credits**

**Prerequisite:** Chemistry Honors or Chemistry; Algebra II Honors

**Requisite:** Enrolled in Pre-Calculus Honors; Honors Criteria and teacher recommendation.

Physics Honors is generally selected by students who have taken the honors science and math courses. Conceptual thinking and the use of mathematical ideas are central themes. The basic units of study include motion, optics, waves, forces and electricity.

### **3440 PHYSICS**

**Grades 11, 12**

**6 Credits**

**Prerequisite:** Chemistry, Chemistry Honors, Algebra II

This college preparatory course presents major concepts in physics with corresponding laboratory activities. Much emphasis will be placed on hands-on experiences, observations and reporting. A good working knowledge of mathematical concepts is needed as clear relationships between mathematical and physical concepts are stressed.

### **3493 CONCEPTUAL PHYSICS**

**Grades 11, 12**

**6 Credits**

**Prerequisite:** Chemistry, Geometry

**Requisite:** Enrolled in Intermediate Algebra II or Algebra II.

This college preparatory course presents major concepts in physics with corresponding hands-on activities. This course focuses on concepts and applications of physics, including laboratory investigations, and the use of basic algebra skills. The students will gain an understanding of the laws of physics that surround them.

### **3510 ENVIRONMENTAL SCIENCE**

**Grade 11, 12**

**6 Credits**

**Prerequisite:** Honors Biology or Biology; Honors Chemistry or Chemistry

In environmental science students will research the human impact on the natural world. This college preparatory course is intended for students with a wide variety of career goals and science background. Students will participate in lab activities within the town of Park Ridge. Students will be required to document their work using technology. Outdoor activities will be conducted to support classroom instruction.

### **3413 CP ANATOMY & PHYSIOLOGY**

**Grades 11, 12**

**6 Credits**

**Prerequisite:** Biology Honors or Biology

This course is intended to be a hands-on survey of the anatomy and physiology of the human body. This inquiry based laboratory course is designed as an introduction to the human body for students with an interest in the health and medical fields. In class dissections will be used to support classroom instruction. *This class is offered in alternate years, and will not be offered in 2016-2017.*

### **3400 HUMAN ANATOMY & PHYSIOLOGY HONORS**

**Grades 11, 12**

**6 Credits**

**Prerequisite:** Honors Biology or Biology and Honors Chemistry or Chemistry; Honors Criteria and teacher recommendation.

Anatomy & physiology is a student directed survey course of the anatomical and physiological systems of the human body. This laboratory course is designed for the student interested in health occupations and how the body works.

Dissection is required for the anatomy portion of the course. *This class is offered in alternate years, and will be offered in the school year 2016-2017.*

### **3462(3463) AP BIOLOGY**

**Grades 11, 12**

**6 Credits**

**Prerequisite:** Biology Honors; Chemistry Honors; Honors Criteria and teacher recommendation.

This course is designed for a highly motivated, academically advanced student with strong interest in science-related fields. It is presented as a college-level course in biology, following the Advanced Placement Biology outline. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Students enrolled in this course may elect to take the College Board Advanced Placement Biology Examination. Students taking this course will be required to complete a summer reading assignment. *This class is offered in alternate years, and will not be offered in the school year 2016-2017.*

### **3420 (3421) AP CHEMISTRY**

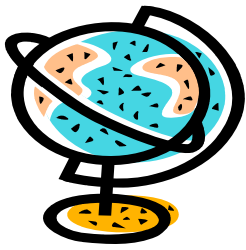
**Grade 11, 12**

**6 Credits**

**Prerequisite:** Chemistry Honors; Honors Criteria and teacher recommendation.



This course is designed for a highly accelerated, academically advanced student with strong interest in pursuing a career in science related fields. It is presented as a college level course in chemistry following the Advanced Placement Chemistry outline. Advanced level topics in inorganic chemistry will be explored through a high laboratory oriented program. Emphasis is placed on quantitative experimentation. This course will prepare the student for the advanced placement examination in chemistry. Advanced summer assignments are required. ***This class is offered in alternate years, and will be offered in the school year 2016-2017.***



## SOCIAL STUDIES

The Social Studies program seeks to foster in all students the ability to understand the world and to have an appreciation for the heritage of America, civics, history, economics and geography. The student of history offers students opportunities to analyze how societies function, and people need to have some sense of how societies function simply to run their own lives. History allows us to understand the factors that cause change, how recent, current and prospective changes affect the lives of ordinary people.

By actively engaging in the required and elective courses offered, students can expand their knowledge, skills and attitudes as informed, responsible citizens and contributing members of society. Through an interdisciplinary approach, students develop and strengthen their skills (writing, reading comprehension, research and organization of information, public speaking, teamwork, critical thinking, and simple awareness).

### **4210 WORLD CULTURES**

**Grade 9**

**5 Credits**

**Prerequisite:** None

This course is the second part of the world history/cultures program begun in the eighth grade. This course takes a look at how today's complex world evolved. The study covers the period from the Age of Reason (1715) to the present day. The theme of revolution and the changes it brings to cultures around the world will be emphasized. At the same time the students will identify the similarities and differences among cultures. Other topics that will emerge include: geography and its impact on history, political and social systems, religions and the value systems, economics and technology, global interaction and the influence of the arts and literature.

### **4320 U.S. HISTORY I HONORS**

**Grade 10**

**5 Credits**

**Prerequisite:** Honors Criteria, and Social Studies teacher recommendation

U.S. History I Honors is designed for those students who have demonstrated outstanding achievement and interest in social studies, as well as exceptional reading and writing skills. The course will present a comprehensive study of American civilization from the colonial period through reconstruction. Major political, economic, and social ideas, institutions, and developments will be examined. Students will be required to read and evaluate a variety of historical writings including original documents, standard texts, and comparative interpretations. Reading, writing, research, and analytical skills will be emphasized.

### **4310 U.S. HISTORY I**

**Grade 10**

**5 Credits**

**Prerequisite:** None

This course is a comprehensive study of the American civilization. Beginning with colonial times, the course covers the span of American History through reconstruction. Emphasis is placed on the political, social, economic and cultural factors that have shaped American society.

### **9306 FUNDAMENTALS OF U.S. HISTORY I**

**Grade 10**

**5 Credits**

**Prerequisite:** Fundamentals of World Cultures and administrative approval

This course is a comprehensive study of the American civilization. Beginning with colonial times, the course covers the span of American History through reconstruction. Emphasis is placed on the political, social, economic and cultural factors that have shaped American society. Students will be given individualized attention in order to grasp the essential material and overarching themes presented in this course.

### **4410 U.S. HISTORY II**

**Grade 11**

**5 Credits**

**Prerequisite:** U.S. History I

This is a detailed survey course of American History from America's rise in the late 19<sup>th</sup> Century through the 20<sup>th</sup> Century. Major events covered include the progressive movement, WWI and WWII, the roaring twenties, the Great Depression and New Deal, the Cold War, the stormy sixties, Nixon and the 1970's. The course will examine the political, social, economic, and cultural developments of this period, and connections between our past and present will be assessed. In addition, attention is given to current events.

### **4420(4421) AP UNITED STATES HISTORY**

**Grade 11**

**5 Credits**

**Prerequisite:** U.S. History I Honors, Honors Criteria and teacher recommendation  
 AP U.S. History is designed for those students who have demonstrated outstanding achievement and interest in social studies as well as exceptional reading and writing skills. The course will present a comprehensive study of American civilization from Reconstruction to the present. Major political, economic and social ideas, institutions, and developments will be examined. Students will be required to read and evaluate a variety of historical writings, including original documents, standard texts and comparative interpretations. Reading, writing, research, and analytical skills will be emphasized. Students in the course will be encouraged to take the Advanced Placement Test administered in May. College credit is available from Fairleigh Dickinson University for this course.

### ELECTIVE COURSES

The electives offered through the Social Studies department attempt to expand students' knowledge and exposure to the social sciences, government and civics, and global affairs. Several new courses have been added.

**4452 PSYCHOLOGY** **Grade 11, 12** **5 Credits**

**Prerequisite:** None  
 This introductory course surveys the major principles of the field of psychology. It introduces the student to: the history of psychology, human development, personality, abnormal behavior, social psychology, feelings and emotions, research methodologies, experimental psychology, psychophysiology, learning and memory, altered states of awareness, sleep and dreams, and industrial and organizational psychology.

**4455 AP PSYCHOLOGY** **Grade 11, 12** **5 Credits**

**Prerequisite:** Honors Criteria, Teacher recommendation  
 The primary objective of the AP Psychology course is to inform students about the elements of human behavior and the scientific approach to psychology. This course introduces students to the systematic and scientific study of the behavior and the mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. As an advanced placement course, the work and pacing of this course is rigorous. Students will be asked to complete research in the areas of learning, biological basis of behavior, cognition, memory, development and personality. Class activities will focus on learning about how psychologists complete research, examining current psychological research, writing about psychological themes, and preparing the AP Psychology Exam in May.

College credit is available from Fairleigh Dickinson University for this course. *This class is offered in alternate years, and it will be offered in the school year 2016-2017.*

**4426 AP WORLD HISTORY** **Grade 11, 12** **5 Credits**

**Prerequisite:** Honors Criteria, and Teacher recommendation  
 The AP World History course content is structured around the investigation of five course themes and six different chronological periods, from approximately 8000 B.C.E. to the present. The primary objective of this course is to provide foundational knowledge for future college-level course work in history. Students will develop their capacity and ability to think and reason in a deeper, more systematic way, about history. They will also practice crafting historical arguments from historical evidence, chronological reasoning, comparison and contextualization, and historical interpretation and synthesis. The five course themes include: Interaction between Humans and the Environment; Development and Interaction of Cultures; State-Building, Expansion, and Conflict; Creation, Expansion, and Interaction of Economic Systems; and Development and Transformation of Social Structures. As an advanced placement course, the work and pacing of this course is rigorous. Class activities will prepare students for the AP World History Exam in May.

College credit is available from Fairleigh Dickinson University for this course. *This class is offered in alternate years, and it will be not offered in the school year 2016-2017.*

**4427 AP EUROPEAN HISTORY****Grade 11, 12****5 Credits****Prerequisite:** Honors Criteria, and Teacher recommendation

The AP European History course introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live from 1450 to the present. This provides students with a context for understanding the development of contemporary institutions, the role of continuity and change in the present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. The goals of AP European History are to develop an understanding of some the principal themes in modern European history and ability to analyze historical evidence and historical interpretation, and an ability to express historical understanding in writing.

Class activities will include analyzing and researching historical evidence, writing analytical and interpretive essays and class discussions. *This class is offered in alternate years, and it will be offered in the school year 2016-2017.*

**4441 SOCIOLOGY****Grade 10, 11, 12****2.5****Credits****Prerequisite:** None

Sociology is the study of human behavior, as well as the values, beliefs, and lifestyles of people across the world. Students will learn more about why people behave the way they do to help them gain a better understanding of themselves and their interaction in society. The course opens up new perspectives on the sources of our own behavior, and creates an awareness of cultural settings different from our own. Sociological study can help resolve social problems and formulate public policy. Topics of study include cultural diversity, social change, socialization, adolescence and adulthood, deviant behavior, class differences, racial/ethnic/gender issues, the American family, the influence of mass media, and education and religion.



formally and informally and on writing compositions.

**SPANISH VI (5585) and AP SPANISH (5590) (5591)**

**Grade 12**

**5 Credits**

**Prerequisite:** Successful completion of Level V Spanish.

The emphasis of this course is to thematically build on and become more proficient in the listening, speaking, reading and writing skills taught in level V. The AP level prepares the student for the AP test. Level VI and AP Spanish may be combined.

## OTHER PARK RIDGE HIGH SCHOOL ELECTIVES

**9212 SKILLS FOR SCHOOL SUCCESS - 9**  
**9311 SKILLS FOR SCHOOL SUCCESS - 10**  
**9411 SKILLS FOR SCHOOL SUCCESS - 11**

**Grades 9, 10, 11, 12**

**5 Credits**

**Prerequisite:** Administrative approval

This course is designed to expose students to a variety of learning strategies that will enable them to become more effective learners and apply their acquired skills. Topics will be taught over a three year period and include: reading strategies, writing strategies, organizational skills, note taking skills, study skills, listening skills, research skills and test taking skills. Transitional skills and post high school planning in the academic setting will be addressed. This course is designed to address students' individual learning needs.

**9222 LIFE TRANSITIONS**

**Grade 12**

**5 Credits**

**Prerequisite:** Administrative approval

The purpose of this course is to prepare the student for issues they will face as young adults transitioning out of high school and to stress strategies for successful participation in both the work and college environments. The course offers a unique opportunity for a smooth transition into post secondary programs and careers. The students will explore short and long-term goals, various careers of interest, as well as job search strategies and resume writing. Particular attention is given to those areas identified as most important to the student's success and the ability to self-advocate.

## ENGLISH AS A SECOND LANGUAGE PROGRAM

### **5052 E.S.L. I**

**Grades 9, 10, 11, 12**

**5 Credits**

**Prerequisite:** Based on English Language Learner (ELL) status

The English as a Second Language course is designed to aid students in grades nine through twelve whose native language is not English. The program objective is to help students acquire communication skills and academic language skills in English. For these beginning level students, emphasis is on listening comprehension, speaking and emergent literacy skills.

Students continue developing their language skills in E.S.L. II.

### **5064 E.S.L. II**

**Grades 9, 10, 11, 12**

**5 Credits**

**Prerequisite:** Based on ELL status

This course extends the development of English language skills studied in E.S.L. I for those English language learners whose English skills do not meet the level of proficiency the student needs to be successful in high school studies.

Students continue to develop these skills within the content areas of language arts, science, social studies and math.

Students exit this program upon a competency level based on testing and multiple criteria.



# **BERGEN COUNTY TECHNICAL VOCATIONAL PROGRAM**

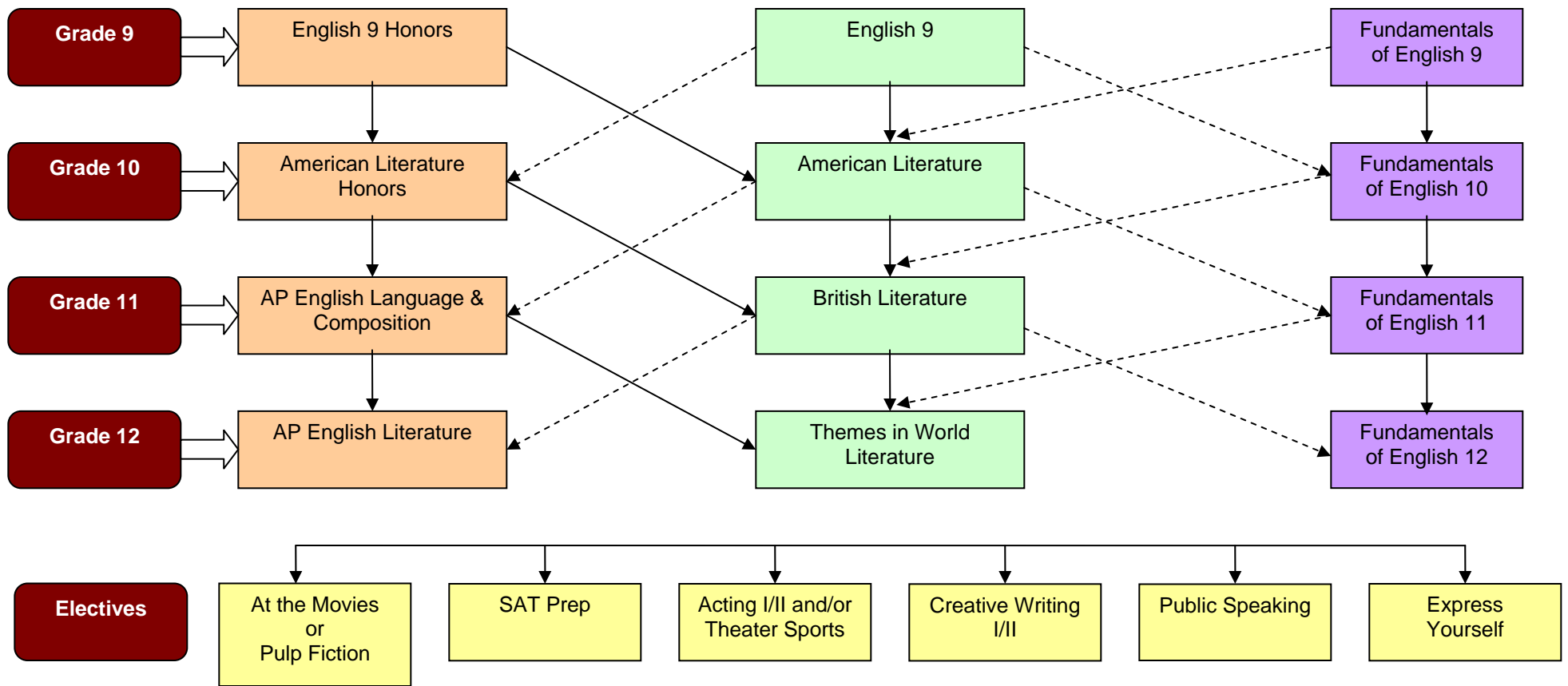
The Central Bergen County Technical Education Center functions as a shared-time facility cooperating with Bergen County high schools. The school provides a half-day of vocational and technical shop training which is coordinated with the student's high school schedule. All academic classes and extracurricular activities are taken in the "home" high school.

Students apply through the guidance office and the applications are processed by the guidance staff for submission to the vocational school. Students are admitted at the ninth, tenth, and eleventh grade levels. Since all the shop programs are planned for a three-year-training period, preference for admission is given to tenth grade applicants, then eleventh, and finally twelfth. Transportation between the local high school and the school is arranged by the local high school.

Twelve shops are available including:

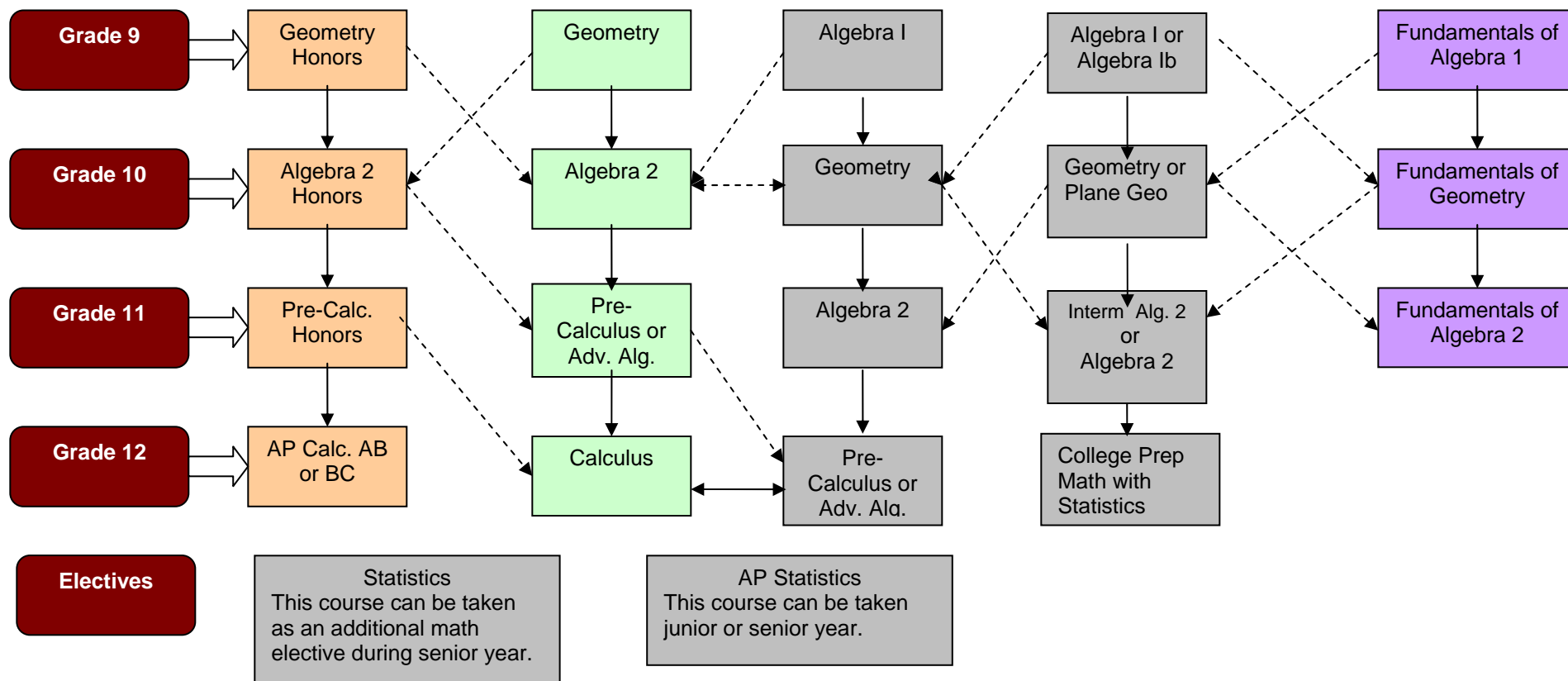
- Automotive Technology ASE
- Automotive Collision Repair
- General Contracting
- Visual/Graphic Design
- Culinary
- Electrical Design Lab
- Cosmetology
- Medical Office Assistant
- Landscaping/Grounds
- Small Animal Care
- Information & Technology & A+ Certification
- Skin Care

More information available at [http://bcts.bergen.org/index.php?option=com\\_multilink&Itemid=1355](http://bcts.bergen.org/index.php?option=com_multilink&Itemid=1355) click on Programs.



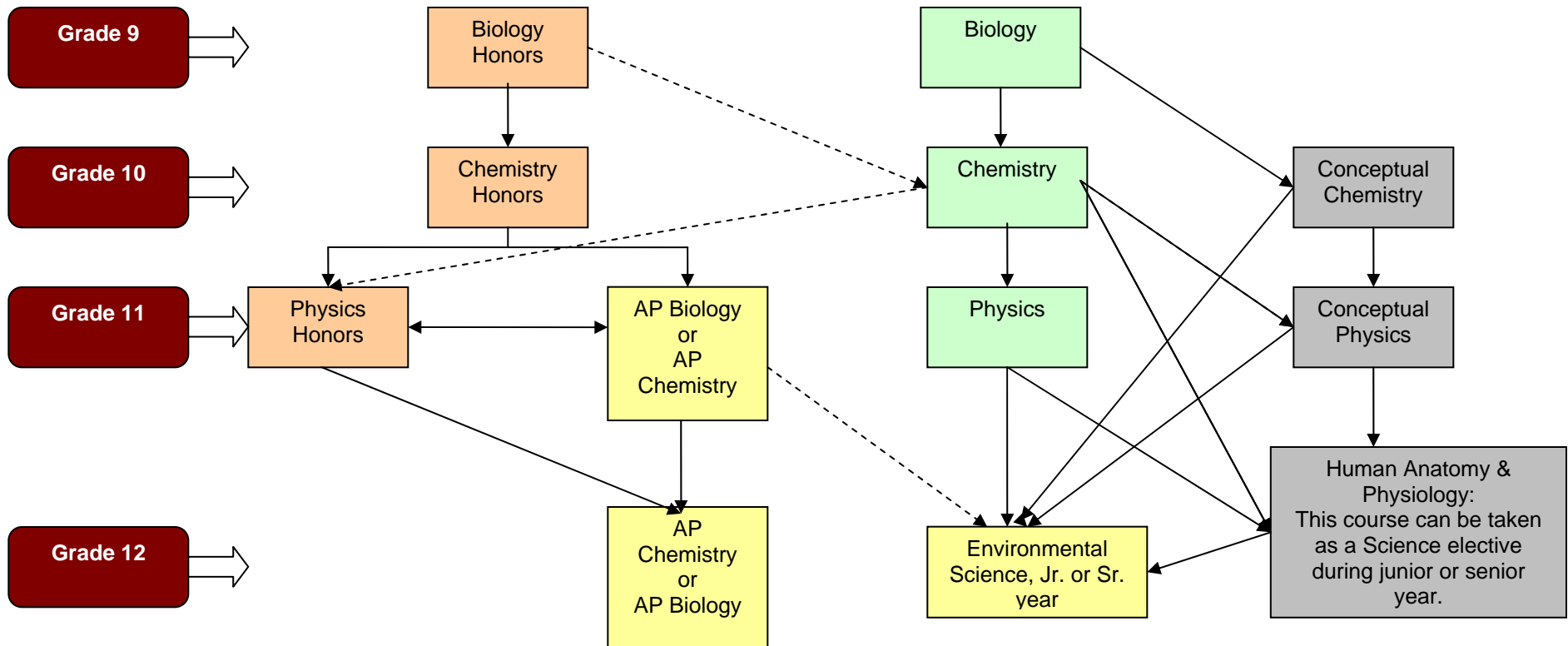
**Park Ridge High School  
English Offerings and Possible Sequences**

NOTE: This course sequence allows for both lateral and vertical movement. These movements will be influenced by individual student performance and adherence to Honors Criteria.



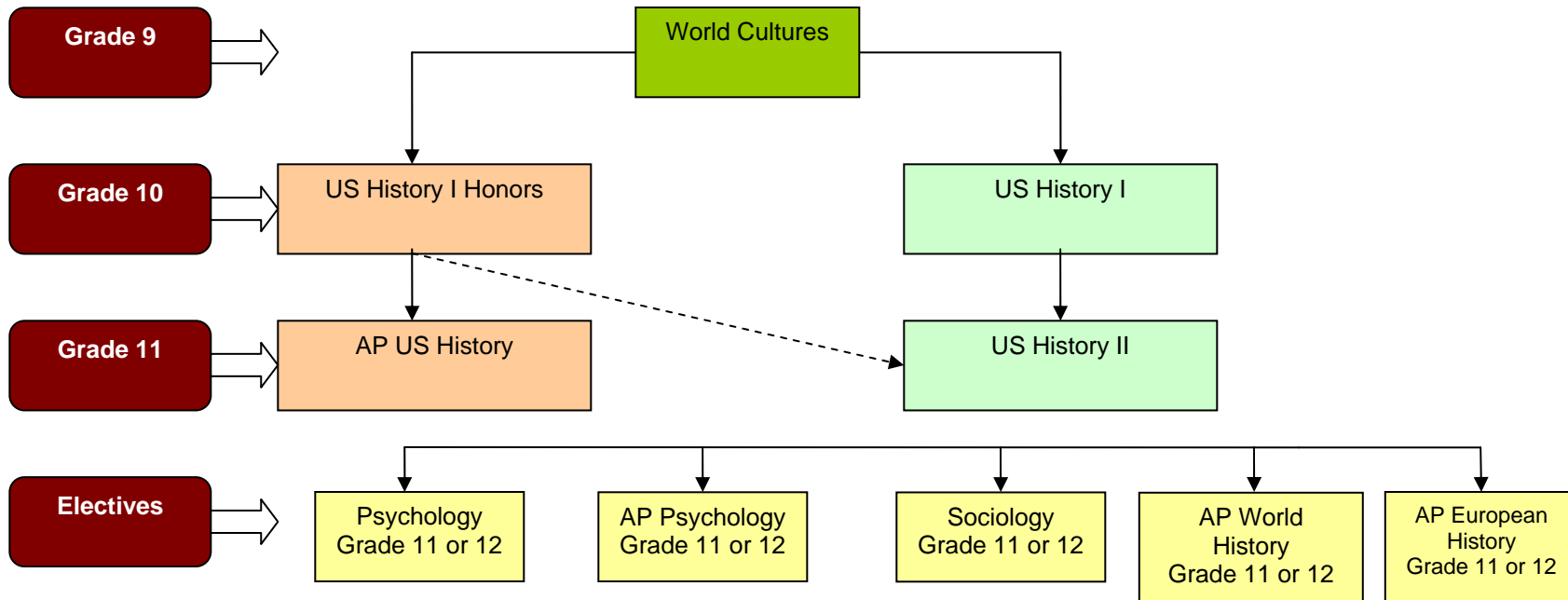
**Park Ridge High School  
Math Offerings and Possible Sequences**

NOTE: This course sequence allows for both lateral and vertical movement. These movements will be influenced by individual student performance and adherence to Honors Criteria.



**Park Ridge High School  
Science Offerings and Possible Sequences**

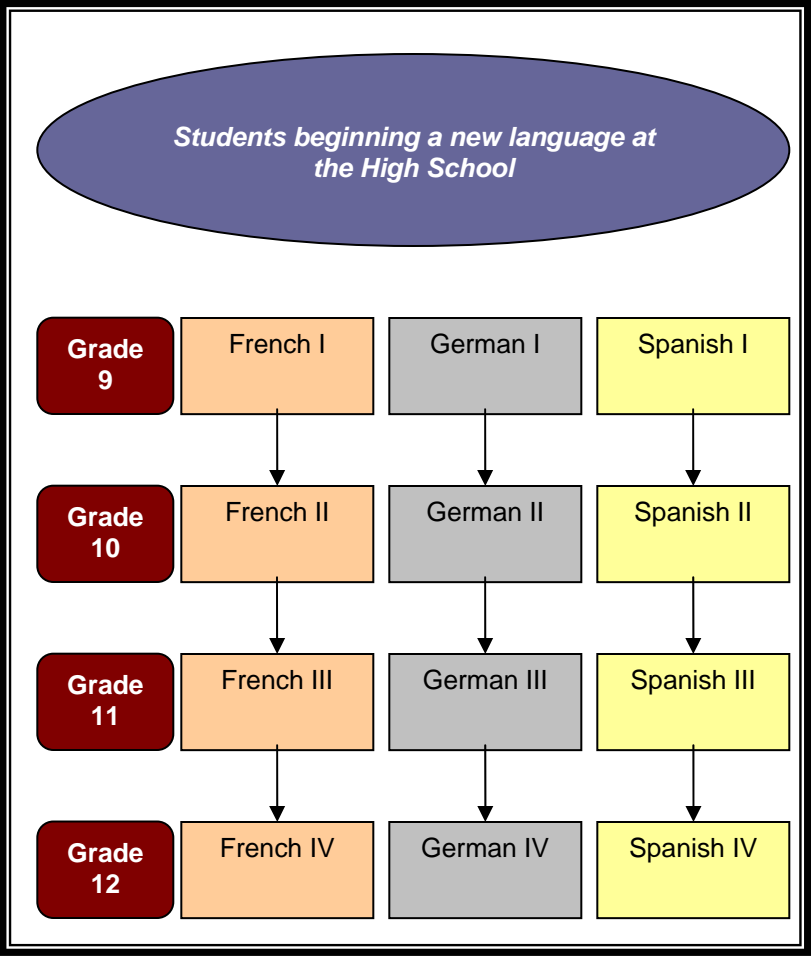
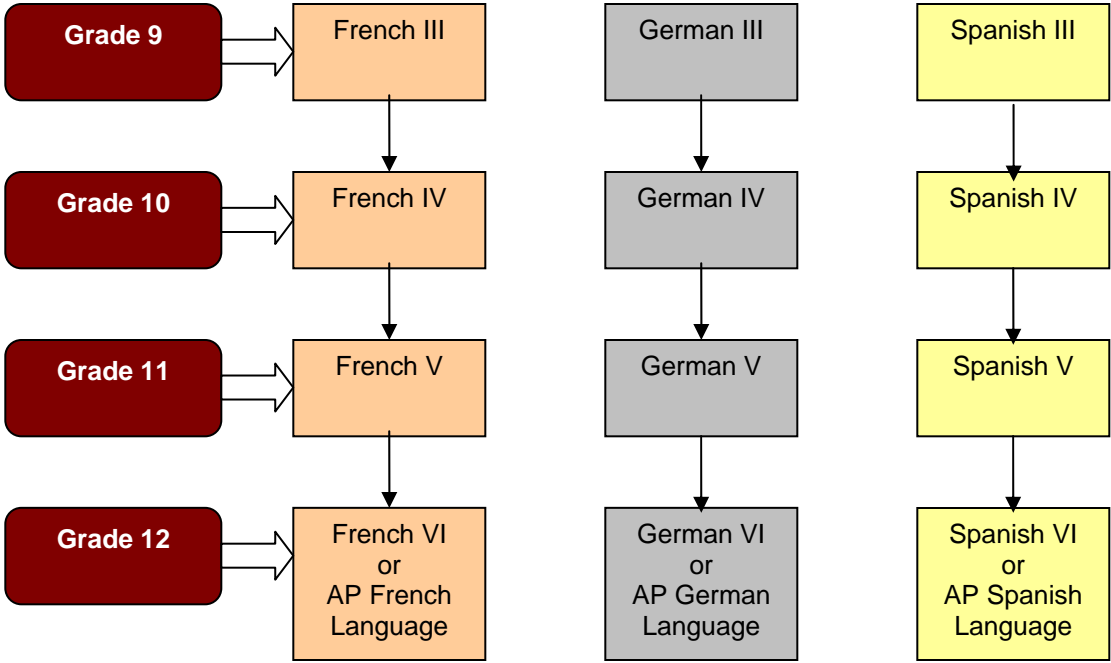
NOTE: This course sequence allows for both lateral and vertical movement. These movements will be influenced by individual student performance and adherence to Honors Criteria.



***Park Ridge High School  
Social Studies Offerings and Possible Sequences***

NOTE: This course sequence allows for both lateral and vertical movement. These movements will be influenced by individual student performance and adherence to Honors Criteria.

**Students continuing language at the High School**



**Park Ridge High School  
World Languages Offerings and Possible Sequences**

NOTE: This course sequence allows for both lateral and vertical movement. These movements will be influenced by individual student performance and adherence to Honors Criteria.