



**2024 - 2025**

**Educating our students....  
to achieve their maximum potential**

**Program of Studies**

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**RARITAN HIGH SCHOOL ADMINISTRATION**

Andrew Piotrowski Ed.D. – Principal  
Paul Zicker – Assistant Principal  
Anthony Vona - Assistant Principal

**School Counseling Staff 2023-2024**

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Raritan High School does not discriminate on the basis of age, color, creed, handicap, national origin, race, religion, sex, or limited English ability.

## FOREWORD

The school program of each student is an individual matter which requires cooperative planning by the home, the school, and the student. Parents are welcome to study the contents of the PROGRAM OF STUDIES BOOKLET in order to assist their children in making the proper choices. The high school staff will advise pupils and parents about appropriate course selection. The guidance department will schedule interviews for each student to discuss future educational and vocational plans. Parents are welcome to attend these conferences. Only with the full cooperation and assistance of the home can the school render the best possible service to its students and to the community. Students who have specific goals, such as college or a trade, must take special care to see that their program of studies will meet the requirements of the field or institution they plan to enter. Subject selection is a very serious process. Occasionally first choice electives cannot be scheduled due to oversubscription, insufficient enrollment, or conflicts. Due to graduation requirements and course limitations, it may be impossible to make changes.

### RARITAN HIGH SCHOOL SCHOOL COUNSELING SERVICES DEPARTMENT

Raritan High School has a strong guidance and counseling department that provides students with sequential, developmental programs. Emphasis is given to the personal, career, and post-secondary educational needs of the individual student while allowing for small and large group guidance and counseling.

#### PROCEDURES FOR SCHEDULE CHANGES FOR 2024-2025 SCHOOL YEAR

The scheduling process for Raritan High School is an important matter and is conducted with great care. Students are given advice and recommendations from their current teachers concerning their selections. They also meet individually and/or in groups with their counselors for career and academic counseling during the school year. Parents will be able to review course requests for each student through the Parent Portal. Based upon these careful decisions, made with the help of teachers, counselors and parents, the master schedule of courses is designed for the upcoming school year, and the staffing needs of Raritan High School are determined. Once these procedures are completed, it is vital to limit changes in course selections. We have, therefore, developed a process. Students and their parents or guardians are asked to review the requested courses. If requests are not made for a change by the identified deadline listed below, students are committing themselves to the courses they have selected. The commitment must not be taken lightly. Capricious course changes will not be made. The only acceptable reasons for course changes after the schedule selection process is completed are listed below.

Reasons for changing courses after submitting final course selection sheet:

1. Due to failures which prohibit progress to the next sequential course.
2. Due to successful summer school attendance, which allows progress to the next sequential course.
3. Due to a data processing error.
4. For senior students who are in need of a course to fulfill a graduation requirement.
5. In order to permit class level changes supported by teacher and counselor recommendation and approved by the appropriate department supervisor(s). **AP & Honors courses cannot be dropped because summer work was not done.**
6. Revisions in Individual Education Plans for classified students.
7. For students placed in mandatory courses as necessitated standardized test results.
8. In order to honor, where possible, the student's original course selection request.

**\*The Deadline For Any Course Changes is June 25, 2024 (or last day of school)\***

## REQUIREMENTS FOR GRADUATION

<b>Required/Recommended Coursework</b>				
	<b>Freshmen</b>	<b>Sophomore</b>	<b>Junior</b>	<b>Senior</b>
<b>Core Subject Courses</b>	English I	English II	English III	English IV
	Geometry (or higher)	Algebra 1 (or higher)	Algebra II (or higher)	*Math Elective (recommended but optional)
	Biology	Chemistry or another lab science	Physics or Environmental Science or another lab science	*Science Elective (recommended but optional)
	World History	US History I	US History II	*Social Studies Elective (recommended but optional)
<b>PE/Health</b>	PE/Health 9	PE/Health 10	PE/Health 11	PE/Health 12
<b>World Language</b>	Spanish Italian Latin	Spanish Italian Latin	*World Language (recommended but optional)	*World Language (optional)
<b>Elective Credits Per Year</b>	10 credits	10 credits	10 credits	10 credits
<b>Total credits needed</b>	<b>140</b>	<b>140</b>	<b>140</b>	<b>140</b>
<b>Required Elective Options within 4 years</b>	5 credits in Visual or Performing Arts, 5 credits in Career education and consumer, Family and Life skills or Vocational-Technical Education 2.5 credits in Financial, Economics, Business & Entrepreneurship Literacy			
<b>Other Elective Options</b>	<ul style="list-style-type: none"> <li>• Honors/AP Classes</li> <li>• Early College Academy, Pre-Engineering Academy, RHS Academy of Health Careers, Performing Arts Academy</li> <li>• Brookdale Community College</li> </ul>			
<b>State Testing Needed</b>	<b><i>Passing score needed - see explanations of state testing requirements on the next page.</i></b>			

***\*These are current requirements that may adjust based on changes to the State of NJ.\****

# New Jersey High School Graduation Assessment Requirements

<https://www.nj.gov/education/assessment/requirements/>

## The Class of 2023 -2025

The NJDOE is committed to providing fair notice to students and educators and will continue to collaborate with stakeholders to transition to the next generation of statewide assessments.

Pathways Available	English Language Arts/Literacy (ELA)	Mathematics
<p><b>First Pathway:</b> Demonstrate proficiency in the NJGPA (New Jersey Graduation Proficiency Assessment)</p>	<p>New Jersey Graduation Proficiency Assessment - ELA <math>\geq</math> 725 (Level 3 "High School Graduation Ready")</p>	<p>New Jersey Graduation Proficiency Assessment - Mathematics <math>\geq</math> 725 (Level 3 "High School Graduation Ready")</p>
<p><b>Second Pathway:</b> Demonstrate proficiency in English language arts and/or mathematics by meeting the designated cut score on one of the alternative assessments</p>	<p>One of the following:</p> <ul style="list-style-type: none"> <li>● ACT Reading <math>\geq</math> 17</li> <li>● Accuplacer WritePlacer <math>\geq</math> 5</li> <li>● Accuplacer WritePlacer English Second Language <math>\geq</math> 4</li> <li>● PSAT10 Evidence Based Reading and Writing (EBRW) <math>\geq</math> 420</li> <li>● PSAT10 Reading <math>\geq</math> 21</li> <li>● PSAT/NMSQT EBRW <math>\geq</math> 420</li> <li>● PSAT/NMSQT Reading <math>\geq</math> 21</li> <li>● SAT EBRW <math>\geq</math> 450</li> <li>● SAT Reading <math>\geq</math> 23</li> </ul>	<p>One of the following:</p> <ul style="list-style-type: none"> <li>● ACT Math <math>\geq</math> 17</li> <li>● Accuplacer Elementary Algebra <math>\geq</math> 49</li> <li>● Accuplacer Next-Generation QAS <math>\geq</math> 250</li> <li>● PSAT10 Math Section or PSAT/NMSQT Math Section <math>\geq</math> 420</li> <li>● PSAT10 Math or PSAT/NMSQT Math <math>\geq</math> 21</li> <li>● SAT Math Section <math>\geq</math> 440</li> <li>● SAT Math Test <math>\geq</math> 22</li> </ul>
<p><b>Third Pathway:</b> Demonstrate proficiency in English language arts and/or mathematics through Portfolio Appeals</p>	<p>Meet the criteria of the NJDOE Portfolio Appeal for ELA</p>	<p>Meet the criteria of the NJDOE Portfolio Appeal for Math</p>

## Class Rank

Class rank is determined on a weighted GPA basis. The student having the highest weighted, numeric grade point average ranks first in the class. Class rank is calculated each year based on cumulative final grades. Summer School Courses are not included within the GPA calculation. Class rank is distributed on final report cards for each year. The top 10 seniors in the class are re-ranked after the third marking period of the senior year to establish the valedictorian, salutatorian, and top 8 students. In order to qualify as valedictorian or salutatorian of a graduating class, a student must have attended Raritan High School for three full and consecutive years.

A student's weighted GPA is determined by applying the listed multipliers to the credits associated with each identified course, creating value points for each course. The value points for each course are tallied and then divided by the total amount of credits taken by the student. The result of this calculation is the student's weighted GPA.

Value Point Multiplier	
Level	Multiplier
AP	1.15
Honors	1.10
College Prep	1.05
Standard	1.00

***For the Early College Academy, Brookdale Community College issues alpha grades. In order to properly use those classes in the rank, we had to add numeric value to the alpha grades and below is that breakdown.***

***The grades for regular RHS grades are as follows:***

100-90 = A

89- 80 = B

79-70 = C

69-65 = D

64 and below = F

***Based on the above grade range, here are the grade equivalencies we used for BCC courses to run rank:***

A = 97

A- = 93

B+ = 89

B = 87

B- = 80

C+ = 79

C = 77

C- = 70

D+ = 69

D = 67

D- = 65

### **Advanced Placement (AP) Exam Registration and Payment:**

- AP Exams will cost \$98 per exam (\*subject to change as per the College Board)
- District will not be covering the cost starting in 2023-2024 due to district budget cuts.
- Students can take an AP course and not take the AP exam
- Reimbursement for anyone who receives a 3, 4, or 5 on the AP exam.

# BUSINESS EDUCATION

PERSONAL FINANCE (631) [CP]

**Prerequisite – None**

**Credits – 2.5      Years Offered – 10, 11, 12**

This semester course will introduce students to the basic economic decisions and issues they will face in their future. The course will explain, both in theory and in practical terms, various topics. These topics include opening and maintaining checking accounts including the use of modern technology, credit, housing, car ownership, taxes, budgets, investment options and financial planning. **\*Fulfills financial lit requirement**

INTRO TO MARKETING (613) [CP]

**Prerequisite – None**

**Credits – 2.5      Years Offered – 9, 10, 11, 12**

This semester course is designed to serve as an introduction to the basic principles of marketing, practices, and the application of these practices. This class will focus on current topics in marketing including the 4 P's: Product, Price, Place and Promotion. The class also includes topics on retail sales, business presentations, management, entrepreneurship, ethics, career exploration, and marketing plans.

INTRODUCTION TO BUSINESS (612) [CP]

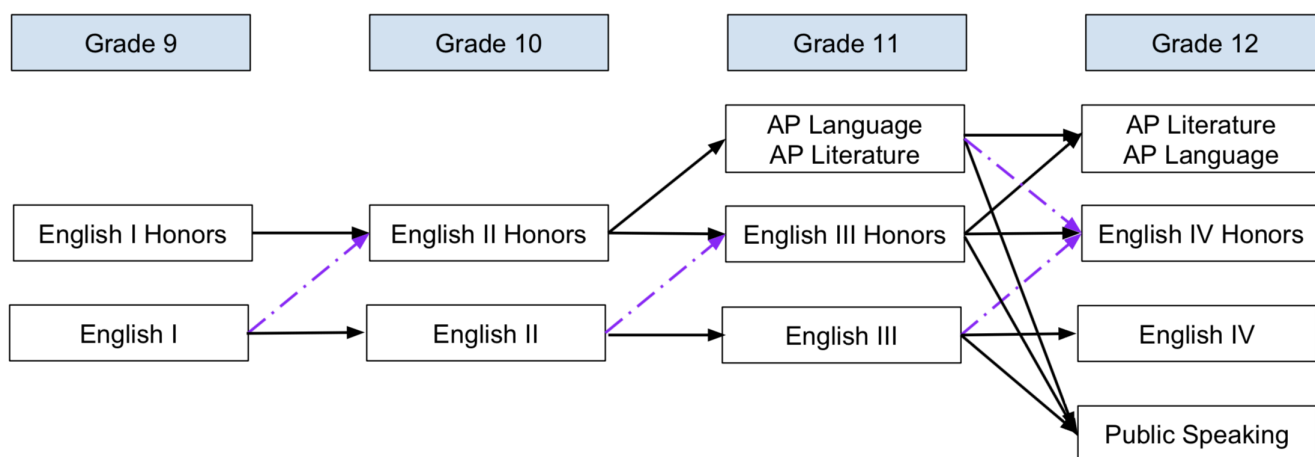
**Prerequisites – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

This is a full year course designed to acquaint the student with the world of business and business operations. The basic economic problem will be discussed as well as the difference between wants and needs. Also discussed will be the phases of the business cycle and how that will affect supply, demand, GDP and employment. Types of business ownership, leadership characteristics and social and ethical responsibility of business will also be discussed. Students will learn the value of international trade and how the government assists businesses. Compensation will be discussed as well as types of employees. Other topics will include technology, financial records and consumer rights. The course is therefore not only recommended for students who wish to pursue a business career, but can be inserted as a worthwhile elective at any time during the four years of high school. **\*Fulfills Financial Literacy requirement**

# ENGLISH

## **English Course Sequence**



**No student will be placed in more than four semesters of English in a given year. Anyone who is in need of more than ten English credits for graduation must make up this requirement in summer school or by some other approved method.**

ENGLISH I (112) [CP]

**Prerequisite – None**

**Credits – 5      Year Offered – 9**

Analysis of literary genres will be the primary focus of this course, and students will discover the elements that make one literary form different from another. Arranged by literary types, the units will include the short story, non-fiction, the novel, and introduction to Shakespearean drama. Modes of writing will include narrative, informational, and argument and will be based upon a variety of literary works. Vocabulary development and reading comprehension will be stressed.

ENGLISH I HONORS (119) [HONORS]

**Prerequisite – Teacher Recommendation**

**Credits – 5      Year Offered – 9**

This is an advanced course for freshmen who have mastered the basics of English and are ready to work at an advanced pace and explore literature on a deeper level. Arranged by literary types, the units will include the short story, poetry, non-fiction, the novel, and introduction to Shakespearean drama. Modes of writing will include narrative, informational, and argument and will be based upon a variety of literary works. Students will learn to conduct research and will have opportunities for creative writing. Students are selected for this course on the basis of past achievement, samples of written work, and teacher/counselor recommendation.

ENGLISH II (122) [CP]

**Prerequisite – English I**

**Credits – 5      Year Offered – 10**

This course is designed to provide students with a survey of American Literature. Students will read and analyze historical and contemporary works of fiction, nonfiction, poetry, drama, and memoir. Authors studied may include Harper Lee, John Steinbeck, Nathaniel Hawthorne, Arthur Miller, and Mitch Albom. Students will write narrative, informational, and argumentative pieces, and research skills will be reinforced.. Continued support for vocabulary development and reading comprehension will be incorporated.

ENGLISH II HONORS (129) [HONORS]

**Prerequisites – English I and Teacher Recommendation**

**Credits – 5      Year Offered – 10**

This is an advanced course designed to encompass the entire spectrum of American literary movement from colonial literature to the twentieth century. Students will read and analyze historical and contemporary works of fiction, nonfiction, poetry, drama, and memoir. Authors studied may include Harper Lee, John Steinbeck, Nathaniel Hawthorne, Arthur Miller, and Mitch Albom. Emphasis will be placed on literary analysis, research, and a variety of modes of writing. Students are selected for this course on the basis of past achievement, samples of written work and teacher/counselor recommendation.

ENGLISH III (132) [CP]

**Prerequisite – English II**

**Credits – 5      Year Offered – 11**

This course is designed to provide students with a survey of British literature from medieval to modern times through genres such as epic literature, Gothic literature, science fiction, and drama. Works studied may include *Beowulf*, *Canterbury Tales*, and *Macbeth*, and authors read may include Mary Shelley, Oscar Wilde, George Orwell, and Neil Gaiman. A variety of supplemental poetry and nonfiction texts will be incorporated. Students will continue to develop skills of literary analysis and argument writing.

ENGLISH III HONORS (139) [HONORS]

**Prerequisites – English II and Teacher Recommendation**

**Credits – 5      Year Offered – 11**

This is an advanced course that includes the entire spectrum of British literary history from the Anglo Saxon period to modern times. Fiction will be studied through such authors as Chaucer, Shakespeare, Shelley, the Brontë sisters, Wilde, Wells, Gaiman, and others. A variety of supplemental poetry and nonfiction texts will be incorporated. Critical analysis of literary works and writing research papers will be emphasized. Students are selected for this course on the basis of past achievement, samples of written work, and teacher/counselor recommendation.

ENGLISH IV (144) [CP]

**Prerequisite – English III**

**Credits – 5      Year Offered – 12**

This course is designed to provide students with a background in the recurrent themes found in Greek and Roman mythology and major works in European and World Literature. Students will study classical literature as well as contemporary informational texts, novels, and memoirs. Writing assignments will be based on literary themes as well as contemporary issues

and will include narrative, informational, and argument pieces. Students will develop skills of critical thinking and analysis to support college and career readiness.

#### ENGLISH IV HONORS (148) [HONORS]

##### **Prerequisite – English III and Teacher Recommendation**

**Credits – 5      Year Offered – 12**

This is an advanced course that offers students an overview of the literature of many peoples and cultures. Emphasis is on understanding the world through a study of literature that reflects the social, religious, and philosophical practices of society. Students will study the genres of mythology, classical literature, drama, nonfiction, and fiction. Writing assignments will be based on literary themes as well as contemporary issues and will include narrative, informational, and argument pieces. The course is designed to meet the needs of the highly able student who has a mastery of skills, self-motivation, a proven track record, and a strong desire to be challenged. Students are selected for this course on the basis of past achievement, samples of student work, and teacher/counselor recommendation.

#### ADVANCED PLACEMENT ENGLISH LANGUAGE & COMPOSITION (150) [AP]

##### **Prerequisites – Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

Do you enjoy non-fiction? Do you ask the question “why” when you hear someone speak or read what they’ve chosen to write? This course prepares students to be masters of analysis, uncovering how and why writers, speakers, movie makers or photographers make their impact on their audiences. Students will spend the course delving into shorter pieces for longer periods of time, discussing nuances of words and phrases, and writing intelligently about what they discover. Students are selected for this course on the basis of past achievement, samples of written work, and teacher/counselor recommendation. This course may be offered for dual enrollment, if available.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

#### ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION (149) [AP]

##### **Prerequisites – Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

Students will read, write about, and discuss a central core of works, both classic and contemporary, fiction and nonfiction, that embody the best that has been thought and written. The readings range in genre and chronology, demonstrating multiple methods of presenting views. The course provides explicit instructions on how to organize and develop ideas and how to give substance by demonstration and argument. Examples of literary works range from classic texts such as *Jane Eyre*, *Portrait of an Artist as a Young Man*, and *Hamlet* to more contemporary titles such as *Nectar in a Sieve*, *Beloved*, and *The Bonesetter’s Daughter*. Students will be prepared to take the Advanced Placement test in May through frequent exposure to AP-type questions. Students are selected for this course on the basis of past achievement, samples of written work, and teacher/counselor recommendation. This course may be offered for dual enrollment, if available.

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#### ENGLISH AS A SECOND LANGUAGE (100) [CP]

##### **Prerequisites – None**

**Credits – 10      Years Offered – 9, 10, 11, 12**

Students who enter Raritan High School from a school outside the district must take an English proficiency test if English is not their native language. As determined by New Jersey Department of Education standards, students that do not achieve a passing score on the English proficiency assessment qualify for English as a Second Language class for supplementary assistance in the areas of reading, writing, listening, and speaking in English. Once students have attained a passing score on the ACCESS 2.0 exam, given annually to English Language Learners, they are eligible to exit the ESL class. Successful completion of this course represents 5 credits towards a student’s graduation progress in language arts and an additional 5 credits which is applied to a student’s cumulative credit total.

## **ENGLISH ELECTIVES**

#### ADVANCED PLACEMENT SEMINAR (157) [AP]

[AP Seminar Class Video](#)

##### **Prerequisites – Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11**

AP Seminar, the first course in the AP Capstone progression, is designed to help students build skills in writing, research, presentations, and collaboration. Students who are highly motivated by topics/concepts/units of study that interest them, generally able to pace themselves and be self-directed, and like to approach new information in an analytical way should consider taking this course. Students will learn and master skills such as building evidence-based arguments, applying research methods, working in teams, delivering professional presentations, and completing long-term academic projects. The

course focuses on developing these and other skills to prepare for two performance tasks and one end of course exam. For the first performance task, students will work in teams to identify a research question that interests them, individually research one aspect of that question, and then work collaboratively to present this information to an academic audience, reflecting the complexity of the issue. For the second performance task, students will individually research a question inspired by College Board-provided stimulus material and develop a written and oral argument supported by a variety of credible sources. The course will culminate in the end of course exam which requires students to analyze an argument and develop their own original argument based on provided texts. The score for AP Seminar is determined by the completion of all three components. Students will be expected to submit their AP Seminar Performance Tasks by the College Board Due Date.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

#### ADVANCED PLACEMENT RESEARCH (151) [AP]

**Prerequisites – Advanced Placement Seminar**

**Credits – 5      Years Offered – 11, 12**

AP Research is the second course in the AP Capstone progression. Students will build upon the skills learned in AP Seminar as they explore topics, problems, issues, or ideas of interest to them. Students will engage in a yearlong investigation to address a research question. Through the process, students will continue to develop skills including creating research questions, managing time effectively, employing ethical research practices, accessing information using effective strategies, analyzing and evaluating sources, and synthesizing information. Over the course of the project, students will develop a process and reflection portfolio to reflect on their skill development, to document their processes, and to gather artifacts. To fulfill the requirements of the course, students will complete a 4000-5000 word academic paper and will present and defend their work. Upon successful completion of the AP Capstone experience, students are eligible to receive an AP Capstone Diploma or an AP Seminar and Research Certificate. Students will be expected to submit their AP Research Performance Tasks by the College Board due date.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

#### PUBLIC SPEAKING (164) [CP]

**Prerequisite – None**

**Credits – 5      Year offered – 12**

Public speaking is one of the most essential skills – and one that terrifies most people. This course provides all the important learning points covered in a college-level public speaking class within a year-long, safe environment. Daily classes focus on effective speech writing, practice, delivery, and feedback. Speech types include informational, demonstration, oral interpretation, and persuasive. This course fulfills the senior year English course requirement for graduation.

#### CREATIVE WRITING/JOURNALISM I (152) [CP]

**Prerequisite – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

This course focuses on journalistic writing, journal photography, design and presentation. Students will become intelligent consumers of mass media as they gain insight into law and ethics as they apply to the media, including first amendment-related rights and responsibilities. They will use the writing process as a communication medium as it relates to journalism. Opportunities will be available to collaborate with the TV Production and Global Communications classes. Students and teachers will wed journalist skills with 21<sup>st</sup> Century technology to produce cross-curricular projects, online presentations, blogs, wikis and podcasts.

#### CREATIVE WRITING/JOURNALISM II (153) [CP]

**Prerequisites – Journalism, and/or teacher recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

This advanced course is designed with a concentration in writing and producing a newspaper in hard copy as well as online. Students will develop creative and practical life skills and interest in the media. Students will gain an understanding of what makes news, who decides what becomes news, and how the media decide what to publish and broadcast.

#### SPORTS LITERATURE (172) [CP]

**Prerequisite – None**

**Credits – 2.5      Years Offered – 10, 11, 12**

In this course, students will explore a variety of fiction, non-fiction, and poetry texts that focus on the subject of sports. Students will study the treatment of sports in literature and film and the role and influence of sports in the lives of individuals and in society. Links to other academic areas such as sociology and history will be explored. Themes will be studied across genres and will include leadership and character, success and failure, and heroes and anti-heroes. Emphasis will be placed on literary analysis, criticism, and research as well as the writing of narrative, informational, and argumentative pieces.

# **FAMILY & CONSUMER SCIENCE**

*(Practical Art)*

NUTRITION & CULINARY ARTS (751) [CP]

**Prerequisite – None**

**Credits – 5      Years Offered – 10, 11, 12**

This course is designed for the teenage boy or girl with little or no experience in food preparation and kitchen know-how. Basic kitchen skills and food preparations are taught. Opportunities to coordinate kitchen experiences with foreign languages, nutrition, and entertaining will be provided. Simple assembly lines and fast food techniques are explored.

CHILD DEVELOPMENT I (762) [CP]

**Prerequisite – None**

**Credits – 5      Years Offered – 10, 11, 12**

In this course, students will study children with a focus on early life from birth through preschool age. The social, emotional, intellectual, and physical growth of the child are given particular attention as the activities are planned throughout the program. An integral part of the course is the eight week pre-school type of activity held each semester. Students gain actual experience in planning and working with young children who are invited to participate in the activity. Students gain experience interacting with the children, an experience which can be applied in parenting or in a future child care career.

CHILD DEVELOPMENT II – Field Experience (763) [CP]

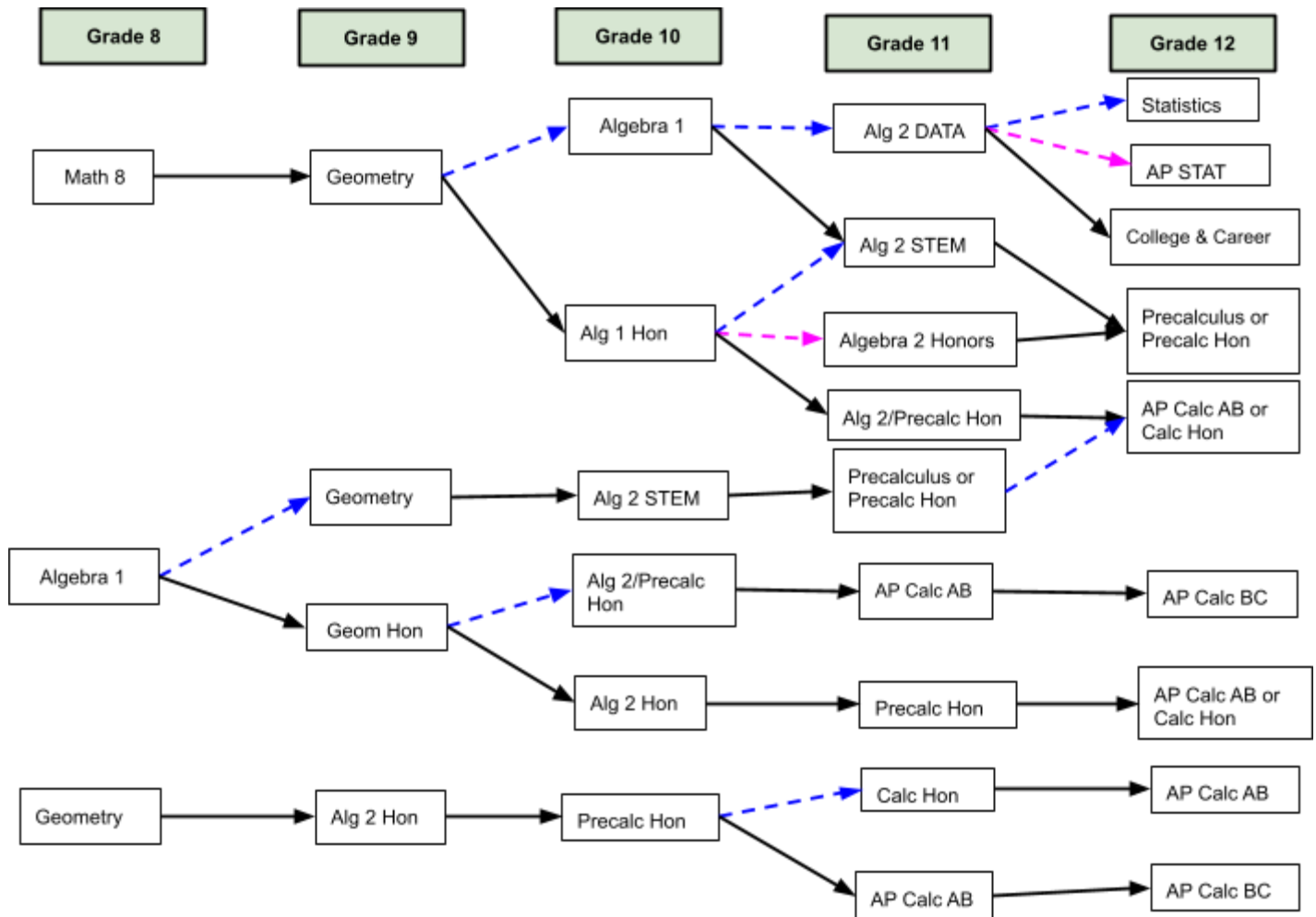
**Prerequisite – Child Development and Teacher Recommendation**

**Credit – 5      Years Offered – 11, 12**

This course is designed to encourage students who possess a high level of academic achievement and those personality traits found in good teachers to consider teaching or working with children as a career. Students are exposed to the many facets of education through class discussions, guest speakers, discovery-learning projects and presentations, classroom observations and participatory experiences in public elementary school classrooms. The students will be given the opportunity to observe and to assist in a variety of education settings as they continue to learn the strategies and techniques used by master teachers. Students will examine agencies and groups that influence decisions and governance in the educational system. The “hands-on” look at teaching and related fields will allow students to gain experience working with children and will be a more educationally informed and involved community leader of tomorrow.

# MATHEMATICS

## *Mathematics Course Sequence*



### ALGEBRA I (313) [CP]

#### Prerequisites – Geometry

Credits – 5      Years Offered – 10

The main focus of this college preparatory course is for students to be able to interpret, explore and analyze graphs and tables of linear, absolute value, exponential and quadratic functions. Students learn to simplify and evaluate algebraic expressions, apply the operations of real numbers, and solve complex algebraic equations, inequalities and systems of equations. Students work with exponential expressions and roots, algebraic products and factors, and solve quadratic equations. Technology, including graphing calculators, will be incorporated throughout the program.

### ALGEBRA I HONORS (314) [Honors]

#### Prerequisites – Geometry

Credits – 5      Years Offered – 10

This course offers a rigorous treatment of all topics covered in Algebra I. Advanced topics will be covered if time permits. Graphing calculators will be used to enhance the study and evaluation of linear, quadratic and exponential functions and their graphs. Students must have excellent mathematical skills in order to succeed in this course.

### ALGEBRA II DATA SCIENCE (331) [CP]

#### Prerequisite – Algebra I and Geometry

Credits – 5      Year Offered – 10, 11, 12

This course is designed to provide students a pathway to Statistics and AP Statistics with real world application of algebraic concepts rooted in data science. This course will continue to build upon the understanding of linear, quadratic and exponential functions from Algebra I. It will also extend function concepts to include polynomial, rational and radical functions and how they are relevant to the world around us. Specifically, in interpreting data about the environment, space travel and nutrition. Students will analyze situations verbally, numerically, graphically, and symbolically, as well as to learn how to communicate mathematically.

ALGEBRA II STEM (332) [CP]

**Prerequisite – Algebra I and Geometry**

**Credits – 5      Years Offered – 9, 10,11,12**

This course extends the study of Algebra I with a focus on graphical interpretation and exploration of functions studied in Algebra I as well as rational, trigonometric, polynomial, logarithm and square root functions. Students learn operations with complex numbers; learn and apply completing the square to solve quadratic equations; solve logarithmic equations; derive and interpret the unit circle to solve trigonometric equations; graph and interpret conic sections; apply the Remainder and Factor Theorem; learn and apply properties of rational exponents; find and interpret inverse functions; and explore arithmetic and geometric sequences and series, including infinite series. Technology, including graphing calculators, will be incorporated throughout the program.

ALGEBRA II STEM HONORS (319) [HONORS]

**Prerequisite – Algebra I, Geometry and Teacher Recommendation**

**Credits – 5      Year Offered – 9, 10, 11**

This course offers a rigorous treatment of all topics covered in Algebra II. Advanced topics will be covered if time permits. Graphing calculators will be used to enhance the study and evaluation of functions and their graphs. Students must have excellent mathematical skills and a strong algebra background in order to succeed in this course.

ALGEBRA II/PRE-CALCULUS HONORS (320) [HONORS]

**Prerequisite – Algebra I, Geometry and Teacher Recommendation**

**Credits – 5      Years Offered – 9, 10, 11**

Algebra II / Precalculus Honors is designed for students who have a special interest in a STEM field as well as an aptitude in mathematics. In lieu of doubling up in mathematics, students will be enrolled in this class which will provide them the opportunity to have access to Calculus by the time they are 12th graders. Students will study the algebraic and graphic approach to radical, quadratic, polynomial, rational, trigonometric, exponential, and logarithmic functions and their applications. In addition, they will learn applications to linear and non-linear systems, conics, sequences and series, and limits.

GEOMETRY (324) [CP]

**Prerequisite – Math 8**

**Credits – 5      Years Offered – 9**

Geometry includes the study of plane geometry combined with arithmetic, algebra, coordinate geometry, solid geometry, and right triangle trigonometry. Topics include the constructions, congruence and similarity of rectilinear figures, circles, areas, regular polygons and an introduction to coordinate geometry, computation of the lateral surface area, total surface area, and volume of prisms, cylinders, cones, and spheres.

GEOMETRY HONORS (329) [HONORS]

**Prerequisite – Algebra 1 and Teacher Recommendation**

**Credits – 5      Years Offered – 9**

This course is designed to challenge students with rigorous proofs and applications of major geometric topics. These topics also deal with plane, solid, coordinate geometry, and right triangle trigonometry, but in much greater depth than the geometry course. Creativity and analytical thinking will be a major component.

PRE-CALCULUS (333) [CP]

**Prerequisite – Algebra II**

**Credits – 5      Years Offered – 10, 11, 12**

This course is designed to introduce the student to the fundamentals and concepts of a more advanced mathematics course in order to ease the transition to the more concentrated and abstract college mathematics. Elementary functions and their applications are introduced. Differential calculus and its applications are discussed. The circular functions and their applications are also studied. Units in trigonometry will be covered as well as trigonometric concepts being integrated with algebraic concepts. The natural exponential and logarithmic functions will be discussed.

PRE-CALCULUS HONORS (339) [HONORS]

**Prerequisite – Algebra II and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

This course is designed to prepare the superior student for Advanced Placement Calculus. An extensive course in trigonometry is presented. The student will study elementary functions and their properties and will be introduced to differential calculus and its applications. The natural exponential and logarithmic functions will be discussed in detail.

CALCULUS HONORS (344) [HONORS]

**Prerequisite – Pre-Calculus or Pre-Calculus Honors and Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

This course will include the fundamentals, development, and application of limits, derivatives, indefinite integrals and definite integrals. Students will use algebraic methods for differentiation and integration. Numerical and graphical procedures will be investigated using different functions. A strong emphasis is placed on application and problem solving. This course is very similar to an advanced placement course in calculus, however all topics required for the advanced placement examination may not be covered.

#### COLLEGE AND CAREER READY ALGEBRA (325) [CP]

**Prerequisite – Geometry and Algebra 2**

**Credits – 5      Year Offered – 11, 12**

The course will emphasize application, modeling and interpretation of algebraic concepts drawn from real life with a focus on the New Jersey Student Learning Standards (NJ SLS) for mathematics that are most highly connected to collegiate success. Topics include characteristics and properties of linear, exponential, quadratic polynomial, rational, and radical functions; right triangle trigonometry, and statistical analysis. Students will apply abstract mathematical reasoning skills to solve real-world problems based on the NJ SLS. Students will utilize calculators, spreadsheets, and computer algebra systems as they attain college readiness standards.

#### STATISTICS (345) [CP]

**Prerequisite – Algebra 1 and Geometry**

**Credits – 5      Year Offered – 10, 11, 12**

This course will be a full year course that covers essential statistical topics that provide for the conceptual understanding, critical analysis, and practical experience of statistical ideas. Students develop the skills necessary to understand and apply statistical techniques related to real world situations as well as to problem solve. The ability to do data and statistical analysis is necessary for all non-STEM/mathematics fields, such as psychology, education, sports related fields, gaming related fields, etc. Topics included in this course are comprehensive to all aspects of statistics. Students will be provided the opportunity to work in collaborative groups to make decisions based on data analysis as well as to critically think and problem solve which are crucial skills needed to thrive in an increasingly data driven world.

#### ADVANCED PLACEMENT STATISTICS (351) [AP]

**Prerequisites – Algebra II and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

The AP Statistics course is designed to represent the content in a typical introductory college course in statistics. The full-year course covers the skills and knowledge expected of students in the field of introductory statistics. The course is intended for high school students who wish to complete studies equivalent to a one-semester, non-calculus based college course in statistics. Topics to be covered are exploring data, planning a study, anticipating patterns, and statistical inferences.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

#### ADVANCED PLACEMENT CALCULUS AB (349) [AP]

**Prerequisite – Pre-Calculus or Pre-Calculus Honors and Teacher Recommendation**

**Credits – 5      Year Offered – 11, 12**

This course includes two essential components. 1) The mathematical practices set forth by College Board (implementing mathematical process, connecting representations, justification, and communication and notation) and 2) the course content. The content includes the fundamentals and development of limits, differential calculus and integral calculus of algebraic and transcendental functions. There is a strong emphasis on applications and problem solving. A strong background in algebra is a prerequisite. Students will be prepared to take the advanced placement exam and may qualify to receive credit upon entering college.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

#### ADVANCED PLACEMENT CALCULUS BC (399) [AP]

**Prerequisites – AP Calculus AB**

**Credits – 5      Year Offered – 12**

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students will be prepared to take the advanced placement exam and may qualify for advanced placement or receive credit when entering college.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

## **PHYSICAL EDUCATION**

PHYSICAL EDUCATION (010), (020), (030), (040) [STANDARD]

**Prerequisite – Completion of the previous course**

**Credits – 3.75      Years Offered – 9, 10, 11, 12**

Physical Education is required of all students for four years unless a legitimate doctor's excuse is submitted to the nurse and approved by the nurse and principal. Students will not be expected to make up the time missed with a medical excuse. However, they will not be awarded any credits because one cannot receive credit for a course not taken. The exception to this is if a mutually agreed upon project has been completed by the student during the medical excuse section. This would only apply to a partial year medical. The physical education curriculum has a structured program for freshmen sophomores, juniors and seniors. In the structured program, two major areas are emphasized: 1) the development of an understanding of the beneficial effects of physical education on the individual and 2) the development of an optimum level of fitness via a variety of basic developmental activities.

The program is organized and planned in such a fashion that every student is given the best opportunity to develop physical fitness, sportsmanship, recreational ability, an appreciation for health and exercise, and desirable social and leadership qualities. These objectives are accomplished through both team games, and individual activities. Team games include: football, indoor & outdoor soccer, speedball, field hockey, basketball, volleyball, and softball. Individual sports or activities include: tennis, badminton, aerobics, table tennis, paddleball, pilates, and an individualized program as prescribed by a member of the physical education staff for body conditioning.

#### DANCE I (060) [STANDARD]

**Prerequisite – None**

**Credits – 3.75 Year Offered – 9**

An introductory experience in locomotion patterns involving total body awareness. The student experiences locomotion, aerobic movement, develops total body awareness and is able to define rhythm and how it relates to the daily environment. Students will be exposed to aspects of the art of dance which includes aerobics, beginning jazz, modern ballet and social dance. The dance division seeks to develop an appreciation of movement as an art form in which mind and body are used for creative expression of ideas and understanding good personal health habits. The dance program is designed to provide a limited number of interested students with an opportunity to elect dance as a way of satisfying their physical education requirement. All dance 1 students are required to perform in at least one choreographed dance in the annual dance recital as their final evaluation of dance skills.

#### DANCE II (062) [STANDARD]

**Prerequisite – Dance I**

**Credits – 3.75 Year Offered – 10**

Level II Dance emphasizes dance combinations and choreographed routines. The student will continue developing an appreciation for the creativity of dance and opportunities to choreograph and perform. Instructional activities will continue to include lectures, demonstrations and career awareness of dance as a component of the performing arts. All dance 2 students are required to perform in at least two choreographed dances in the annual recital as their final evaluation of dance skills.

#### DANCE III/IV (063) [STANDARD]

**Prerequisite – Dance I and Dance II**

**Credits – 3.75 Years Offered – 11, 12**

Dance III the student will continue developing an appreciation for the creativity of dance and opportunities to choreograph and perform. Juniors will have 3 recital dances (Jazz, Lyrical and Junior Dance) and Seniors will have 4 recital Dances (Jazz, Lyrical, Senior Dance, and Small Group Dance). Advanced dance students will be required to perform in at least 3 choreographed dances as well as develop group and individual choreography to be showcased in the annual dance recital as their final evaluation of dance skills.

#### ADVANCED DANCE AND CHOREOGRAPHY (065) [STANDARD]

**Prerequisite – Dance I and Dance II**

**Credits – 3.75 Years Offered – 11, 12**

Students must audition for this course and reach a score according to rubric. Juniors- guaranteed but not limited to 3 recital dances and Intro to Choreography. Seniors – guaranteed but not limited to 4 recital dances and option of self-choreographed solo. Choreography assignments given to students according to rubric scores and dance abilities in different dance genres.

#### YOGA (070, 071, 072, 073) [STANDARD]

**Prerequisite – None**

**Credits – 3.75 Years Offered – 9, 10, 11, 12**

Students will experience a program that will be designed to provide them with techniques, habits, and training for lifelong health and wellness. Students will be introduced to yoga philosophy, seated postures, standing postures, arm balances, inversions, front lying postures, back lying postures and sequencing of different styles of yoga. Guest yoga instructors, information on holistic nutrition, partner yoga and meditation will all be incorporated into the class.

UNIFIED PARTNERS (050) [STANDARD]

**Prerequisite – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

A developmental physical education program is offered to students with special needs at the high school. This program is specialized to meet the needs of the individual students and based on recreational and lifetime activities which play a major role in the development of the individual.

HEALTH 9 - GROWTH AND DEVELOPMENT AND SUBSTANCE AWARENESS (012) [STANDARD]

**Prerequisite – None**

**Credits – 1.25      Year Offered – 9**

Health 1 is a comprehensive course dealing with the emotional and physical make-up of the adolescent. It involves study of the individual with regard to personality development and physical maturation. The effects of substance awareness are thoroughly explored.

HEALTH 10 - DRIVER THEORY AND DRUG AND ALCOHOL EDUCATION (022) [STANDARD]

**Prerequisite – Health 9**

**Credits – 1.25      Year Offered – 10**

This course stresses driver training, driver safety, pedestrian safety, and theory of driving. The course will include a study of the New Jersey Motor Vehicle laws. At the conclusion of the course, the state test for a New Jersey driving permit will be administered. A student must receive a test grade of an 80 or more to qualify for the driving permit. A minimum of 30 hours of driver education theory must be completed by the student before he/she is eligible for credit in this course. Students will also explore the history of drugs and the relationship between substance abuse and responsible behavior.

HEALTH 11 -STANDARD FIRST AID AND CPR(032) [STANDARD]

**Prerequisite – Health 10**

**Credits – 1.25      Year Offered – 11**

This junior health course provides instruction on basic community first aid techniques and cardiopulmonary resuscitation. CPR certification is optional when a certified instructor is available.

HEALTH 12 – HUMAN RELATIONSHIPS (042) [STANDARD]

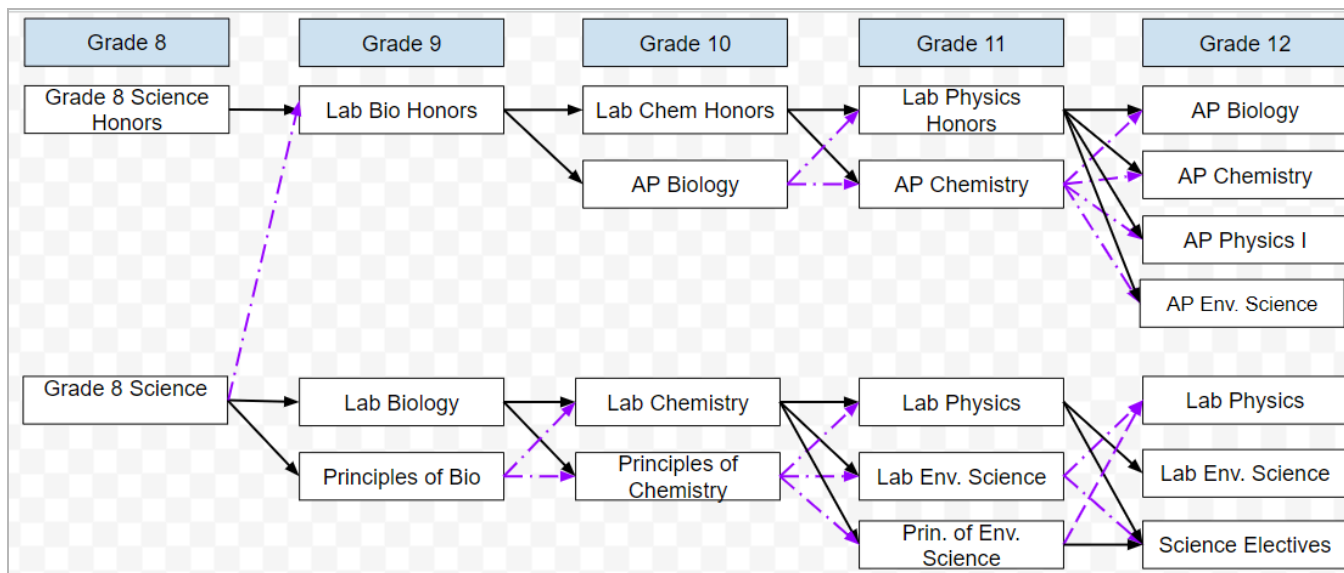
**Prerequisite – Health 11**

**Credits – 1.25      Year Offered – 12**

This course will focus on individuals as they strive to understand themselves, relationship with others, future marital commitments, and the subsequent interrelationships to family and society.

## SCIENCE

### *Science Course Sequence*



PRINCIPLES OF BIOLOGY (422) [STANDARD]

**Prerequisite – Teacher Recommendation**

**Credits – 5      Year Offered – 9**

Biology is the study of living things. Topics include scientific methodology, basic biochemistry, cell structure and function, microbiology, genetics and heredity, evolution, and relationships between living things and their environment. Demonstrations and student 'hands-on' activities are used to illustrate biological principles and stimulate discovery of living relationships.

#### LAB BIOLOGY (420) [CP]

**Prerequisite – None**

**Credits – 5      Year Offered – 9**

This course is designed to introduce students to the biological sciences and emphasize the importance of being scientifically literate. Topics of study include scientific methodology, basic biochemistry, cell structure and function, microbiology, genetics and heredity, evolution, and relationships between living things and their environment. Student laboratory work is used in order for students to apply biological principles and demonstrate understanding of topics covered throughout the course.

#### LAB BIOLOGY HONORS (423) [HONORS]

**Prerequisites – Teacher Recommendation**

**Credits – 5      Year Offered – 9**

This course is offered to those students who show exceptional science aptitude. Topics are covered in more detail than lab biology. Emphasis is placed on molecular and cellular biology, genetics and evolution. Students are encouraged to be more independent in their studies and during lab assignments.

#### ADVANCED PLACEMENT BIOLOGY (425) [AP]

**Prerequisites – Lab Biology Honors and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

This college level course prepares the student for the Advanced Placement Examination which will be offered in May at Raritan High School. College credit may be granted to those students whose scores indicate a mastery of the subject. Subject areas to be covered include: chemical and cellular basis of life, cell structure and functions; energy transformation; nutrient procurement and processing; mitosis and meiosis; patterns of inheritance, development and evolution.

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#### PRINCIPLES OF CHEMISTRY (412) [STANDARD]

**Prerequisite – Principles of Biology**

**Credits – 5      Years Offered – 10, 11, 12**

This is a one year course in which students are introduced to topics such as measurement, matter and energy, atomic structure, periodic table, chemical bonding and chemical reactions. Students will have considerable "hands-on" experience to emphasize the practical aspects of chemistry.

#### LAB CHEMISTRY (410) [CP]

**Prerequisites – Lab Biology and Algebra I**

**Credits – 5      Years Offered – 10, 11, 12**

This course is designed to introduce students to chemical concepts as well as lab techniques and methodologies. Topics of study include classification of matter, atomic structure, the periodic table, chemical bonding, and various types of chemical reactions. A solid foundation in math is essential as topics are explored both quantitatively and qualitatively.

#### LABORATORY CHEMISTRY HONORS (413) [HONORS]

**Prerequisites – Lab Biology Honors, Algebra I, and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

This course is designed for students who exhibit exceptional science aptitude and interest. Chemistry is a quantitative science and a great deal of emphasis will be placed upon problem-solving techniques. Students will be introduced to chemistry equipment and lab techniques including operation of the bunsen burner and proper handling of various chemical materials. In-depth study of topics include classification of matter, atomic structure, the periodic table, chemical bonding, various types of chemical reactions, gas laws, and solution chemistry.

#### ADVANCED PLACEMENT CHEMISTRY (459) [AP]

**Prerequisites – Lab Chemistry Honors, Algebra II Honors, and Teacher Recommendation.**

**Credits – 5      Years Offered – 11, 12**

This course prepares the student for the Advanced Placement Examination which will be offered in May at Raritan High School. College credit may be granted to those students whose scores indicate a mastery of the subject. A complete college course is covered including topics on the structure of matter, chemical reactions, bonding and intermolecular forces, kinetics, thermodynamics and chemical equilibrium. Laboratory work includes interpretation of results based on quantitative data and includes the use of a variety of laboratory apparatus.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

LABORATORY PHYSICS (430) [CP]

**Prerequisites – Lab Chemistry, and Pre-Calculus, or Algebra II, or Geometry, and Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

Physics is the study of energy and its transformation and includes such topics as light, heat, sound, mechanics, electricity, atomic energy, motion, force and magnetism. The study of physics is a prerequisite for all advanced study in science and is required in such fields as engineering, aviation, medicine and scientific research. It is most vital in our basic comprehension of physical processes and their relationship to everyday living.

LABORATORY PHYSICS HONORS (432) [HONORS]

**Prerequisites – Lab Chemistry Honors, and Pre-Calculus, or Pre-Calculus Honors, or Algebra II, or Algebra II Honors, or Geometry, and Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

This course is offered to students who have demonstrated general academic excellence and exceptional science aptitude. Honors Physics covers more topics and concepts than Lab Physics and its problem-solving techniques require greater mathematical ability.

ADVANCED PLACEMENT PHYSICS I (434) [AP]

**Prerequisites – Lab Physics, or Lab Physics Honors, and Pre-Calculus Honors, or Algebra II Honors, and Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

This course will provide the student with a qualitative and quantitative understanding of the general principles of physics. Strong emphasis will be placed on a variety of challenging problems. Topics included in the course are mechanics, angular momentum, rotational dynamics, kinetic theory and waves. This study is intended to be representative of courses commonly offered in college. Students will be prepared to take the advanced placement examination for college credit.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

ADVANCED PLACEMENT PHYSICS II (435) [AP]

**Prerequisites – Advanced Placement Physics I, or Honors Lab Physics, and Pre-Calculus Honors, or Algebra II Honors, or are currently enrolled in Pre-Calculus, or Algebra II, and Teacher Recommendation**

**Credits – 5      Year Offered – 12**

This course will provide the student with a qualitative and quantitative understanding of the general principles of physics. Strong emphasis will be placed on a variety of challenging problems. Topics included in the course are fluid mechanics, thermodynamics, electricity, magnetism, optics, atomic and nuclear physics. This study is intended to be representative of courses commonly offered in college. Students will be prepared to take the advanced placement examination for college credit.

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MARINE SCIENCE (460) [CP]

**Prerequisites – Lab Biology, Lab Chemistry, or Principles of Biology, or Principles of Chemistry, and Algebra I**

**Credits – 5      Years Offered – 11, 12**

This is a year-long science elective course designed primarily for 11<sup>th</sup> and 12<sup>th</sup> grade students. Students are introduced to the study of the ocean environment and adaptations of marine organisms. Topics discussed incorporate the geological, physical and chemical aspects of the marine environment as it relates to biological processes. Students will be learning basic concepts of oceanography including plate tectonics, ocean floor features, chemistry of seawater, ocean currents and adaptations of marine organisms living in pelagic and benthic environments.

PRINCIPLES OF ENVIRONMENTAL SCIENCE (433) [STANDARD]

**Prerequisite – At least 2 of the following courses: Principles of Biology, Lab Biology, Principles of Chemistry, Lab Chemistry, Algebra I**

**Credits – 5      Years Offered – 11, 12**

This is a one year course in which students are introduced to basic concepts about Earth's environmental system: atmosphere, biosphere, geosphere and hydrosphere. Students will learn about nonrenewable and renewable resources, biodiversity and conservation, human population, forestry and resource management, soil and agriculture, and global climate change. Class demonstrations and student 'hands-on' activities are used to illustrate environmental principles and show practical applications to our daily lives.

LAB ENVIRONMENTAL SCIENCE (443) [CP]

**Prerequisites – Completion of Lab Biology, Algebra I, and Lab Chemistry**

**Credits – 5      Years Offered – 11, 12**

This course is for students who show exceptional science aptitude. It is a one year course in which students are introduced to the interrelationships of Earth's environmental system: atmosphere, biosphere, geosphere and hydrosphere. Students will learn concepts about nonrenewable and renewable resources, environmental policy and economics, biodiversity and

conservation, human population dynamics, forestry and resource management, soil and agriculture, and global climate change. Various scientific principles, concepts and activities discussed in class are designed to help understand the interrelationships, identify and analyze both natural and man-made environmental problems and evaluate the relative risks associated with these problems. In addition, this course will explore alternative solutions for resolving and preventing these problems.

#### ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE (446) [AP]

**Prerequisites – Lab Chemistry, Algebra I, Lab Biology and Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

This course prepares the student for the Advanced Placement Examination which is given in May at Raritan High School. College credit may be granted to students whose scores indicate a mastery of the subject. A complete college course is covered including topics on the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

#### DYNAMICS OF HEALTHCARE IN SOCIETY (Rutgers Dual Enrollment Program) [AP Weighted] (481)

**Prerequisites – Lab Biology or Honors Lab Biology**

**Credits – 5      Years Offered – 10, 11, 12**

This course is the first course of our Academy of Health Careers. Students can earn 3 college credits for this course, upon earning a grade of 75 or higher on the final standardized exam (administered through Rutgers University). This course is an orientation to the healthcare system of the United States and addressed past efforts and present movements in the field. A major focus of the course is on planning for a career in healthcare and an overview of the many different areas of specialization available. Students who are enrolled in this course must also enroll in the Clinical Internship course, where they complete volunteer clinical hours outside of the classroom. Students who are enrolled in this course are automatically enrolled in the Raritan High School chapter of HOSA (Health Occupation Students of America).

#### ANATOMY & PHYSIOLOGY I (Rutgers Dual Enrollment Program) [AP Weighted] (482)

**Prerequisites – Lab Biology, Lab Chemistry**

**Credits – 5      Years Offered – 11, 12**

This course is a component of the Raritan High School Academy of Health Careers. Students can earn 4 college credits for this course upon earning a passing grade on the standardized exam. Anatomy and Physiology will examine the terminology, structure function and interdependence of the human body systems. Labs will include slide work, dissection of various animals and studies of the human skeleton. This course is intended for students interested in pursuing a career in a health related field.

#### ESSENTIALS OF ANATOMY & PHYSIOLOGY (484) [CP]

**Prerequisites – Biology & Chemistry (Any Level)**

**Credits – 5      Years Offered – 11, 12**

Essentials of Anatomy & Physiology provides a basic understanding of the organization of the human body and how the body works. Organs of the body will be studied to understand their structure, location in the body, their function and how they interact with other parts of the body. Students will acquire the knowledge necessary to understand what the body is doing and how they can help the body cope with many different situations (exercise, relaxation, disease, injury, etc.).

#### CLINICAL HEALTHCARE INTERNSHIP (Rutgers Dual Enrollment Program) (485) [NOT WEIGHTED]

**Co-requisites – Dynamics of Healthcare in Society**

**Credits – 5      Years Offered – 10, 11, 12**

This course is a component of the Raritan High School Academy of Health Careers. Although students will not earn college credit for this course, it will satisfy the clinical experience requirement from Rutgers. This course is for students who are interested in pursuing a career in a health related field. Students will shadow doctors, nurses and other healthcare staff to gain real world experiences in a hospital setting. High school credit will be awarded on a pass/fail basis to students who volunteer 30 hours per school year. ***The credits will appear on the student's transcript, however it would not satisfy graduation requirements or count towards the student's GPA.***

#### MEDICAL TERMINOLOGY (Rutgers Dual Enrollment Program) [AP Weighted] (414)

**Prerequisites – Lab Biology or Honors Lab Biology**

**Credits – 5      Years Offered – 10, 11, 12**

This course is a component of the Raritan High School Academy of Health Careers. Students can earn 3 college credits for this course upon earning a passing grade on the standardized exam. Medical Terminology is the study of words that pertain to body systems, anatomy, physiology, medical processes and procedures and a variety of diseases. It provides a specialized language for the health care team which enables healthcare workers to communicate in an accurate, articulate and concise manner. This course is designed to provide students with a comprehensive knowledge of word construction, definition and the proper use of terms related to all areas of medical science. The course addresses terms related to anatomy of the human

body, functions of health and disease and the use of language in diagnosing and treating conditions related to all of the human body systems. This course is intended for students interested in pursuing a health career.

**ANATOMY & PHYSIOLOGY II (Rutgers Dual Enrollment Program) [AP Weighted] (415)**

**Prerequisites – Anatomy & Physiology Honors I**

**Credits – 5      Year Offered – 12**

This course is a component of the Raritan High School Academy of Health Careers. Students can earn 4 college credits for this course upon earning a grade of 75 or better on the standardized exam. Anatomy and Physiology II will examine the terminology, structure, function, and interdependence of the human body systems. It is an intensive study of the structure and function of the human body. Topics to be addressed in this course include: Endocrine system, Lymphatic system, cardiovascular system, Blood, Water and Electrolyte Balance and the Urinary system. This course is intended for students interested in pursuing a health career.

**INTRODUCTION TO FORENSIC SCIENCE (416)**

**Prerequisites – Lab Biology and Lab Chemistry**

**Credits – 5      Years Offered – 10, 11, 12**

Forensics is a laboratory-based science class for high school juniors and seniors. The purpose of this course is for students to gain experience in the major investigative techniques currently used by forensic scientists and crime scene investigators, and to develop an understanding of the scientific concepts which serve as the groundwork for these techniques. Forensic Science is the application of basic biological, chemical, and physical science principles and technological practices to the purposes of justice in the study of criminal and civil issues. Students will learn how to observe, collect, analyze and evaluate evidence found at crime scenes. Some of the many topics covered are fingerprint analysis, hair and fiber comparison, serology, and crime scene analysis. Forensics is a demanding, fast-paced course covering a new topic of evidence nearly every week.

**SCIENTIFIC PRINCIPLES OF NUTRITION (Rutgers Dual Enrollment Program) [AP Weighted] (486)**

**Prerequisites – Lab Biology and Lab Chemistry**

**Credits – 5      Years Offered – 11, 12**

This course is a component of our Academy of Health Careers. Students can earn 3 college credits for this course, upon earning a grade of 75 or higher on the final standardized exam (administered through Rutgers University). The course provides an overview of the digestion, absorption and transportation of carbohydrates, fats, proteins, vitamins and minerals. An overlying emphasis on the relationships between diet, lifestyle and the prevention of disease can be seen throughout the course. Applying the science of nutrition to your everyday life, including needs for fitness and physical activity, evaluating nutrition claims, food labeling and other consumer concerns will be addressed. This course is intended for students interested in pursuing a health career.

**INTRODUCTION TO AVIATION (Previously AVIATION AND AEROSPACE) (489) [CP]**

**Prerequisites - Must be enrolled in Chemistry or have previously passed Chemistry**

**\*This course is an updated, combination of Aviation & Aerospace and Introduction to Flight & Unmanned Aircraft Systems**

**Credits - 5      Years Offered - 10, 11, 12**

Students will learn about the engineering process, problem solving and the innovations and technological developments that have made today's aviation and aerospace industries possible. They will look at the problem-solving processes and innovative leaps that took space exploration from the unimaginable to the common in a single generation. Students will explore modern day innovations and will develop their own creative ideas to address real-world challenges facing the aviation industry. They will be exposed to and explore a variety of career options in aviation and aerospace. Students will also gain an historical perspective starting from the earliest flying machines to the wide variety of modern aircraft and the integral role they play in making today's world work. This course is intended for students who demonstrate an interest in learning how to fly an airplane or an unmanned drone.

**FLIGHT PLANNING & UNMANNED AIRCRAFT SYSTEMS OPERATIONS (Drones) (491) [CP]**

**Prerequisites - This course is for students that have completed both the Aviation & Aerospace and the Intro to Flight & Unmanned aircraft systems classes.**

**Credits - 5      Year Offered - 11**

This is the third course in the four-year Aviation & Aerospace sequence. Students will explore the different types of flying environments, flight planning, Unmanned Aerial Systems (UAS) operations, aviation communications, weather mapping & planning, flight navigation, aeromedical procedures, building an airport, and aerospace models. They will gain an in-depth understanding of the mechanics, habits, and procedures necessary to fly both manned and unmanned systems. Students will earn simulator time and fly unmanned aircraft systems as part of the requirements of the course. After completing this course, students will be prepared to complete their FAA Written Pilots Test and/or their Part 107 (UAS) Assessment.

**AVIATION CAPSTONE (492) [CP]**

**Prerequisites - Students must complete Flight Planning & Unmanned Aircraft Systems Operations.**

**Credits - 5      Year Offered - 12**

This is the last course in the four-year Aviation & Aerospace sequence. Students will examine advanced aviation topics and aviation career options. They will learn about instrument flight, commercial aviation, advanced aircraft systems, and the business development opportunities in Aviation. The course has students explore new horizons in the aerospace industry and predict what an aviation career will look like in five, ten, or twenty years. Finally, students will learn about and conduct different

types of research in preparation for their capstone project in the second semester. Students will earn simulator time and fly unmanned aircraft systems as part of the requirements of the course.

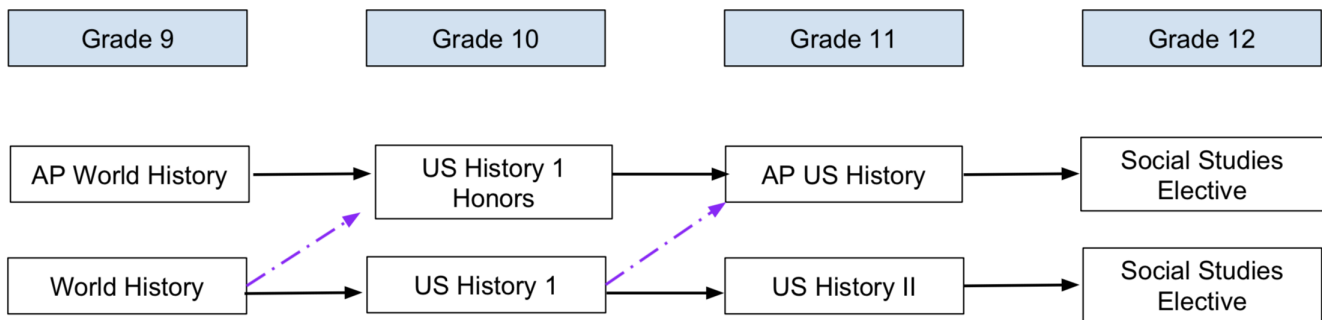
HORTICULTURE (495) [CP] **\*Pending Curriculum Committee Board Approval**

**Prerequisite: Preference will be given to 9th grade students. 9th grade students must be co-enrolled in any Biology class. Remaining seats may be filled by interested Grade 10, 11 and 12 students.**

**Credits - 5 Years Offered - 9, 10, 11, 12**

This course is designed for students who express an interest in Plant Science and Horticulture. It offers both regular classroom instruction in basic botanical principles as well as hands-on lab experiences in our on-site working greenhouse and Outdoor Environmental Learning Center. Students study fundamental horticultural principles including taxonomy, plant anatomy and physiology, asexual propagation of plants, flowering plants, soil science and landscape design. Students examine the horticultural and botanical principles relating to flower, seed and fruit formation and the use of plants of all kinds in the landscape. Students also learn the basics of operating a commercial greenhouse by mass growing a variety of annual plants which will be offered for sale. All students will conduct both teacher and self-designed experiments in various aspects of plant growth and development.

## SOCIAL STUDIES



### **Social Studies Course Sequence**

WORLD HISTORY (212) [CP]

**Prerequisite – None**

**Credits – 5 Year Offered – 9**

World History will give students an opportunity to review map and geography skills. The course will study cultural, religious, political and economic differences in Asia, Africa, South Asia, Europe and the Middle East. Topics such as the role of women, the influence of cultural values, and the problems faced by traditional societies as they adjust to modernization will be discussed.

AP WORLD HISTORY (213) [AP]

**Prerequisite – Teacher Recommendation**

**Credits – 5 Years Offered – 9, 10, 11, 12**

The purpose of the AP World History course is to develop a greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence. Periodization, explicitly discussed, forms an organizing principle to address change and continuity throughout the course. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as a field of study.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

AP HUMAN GEOGRAPHY (214) [AP]

**Prerequisite – None**

**Credits – 5 Years Offered – 10, 11, 12**

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students learn to employ spatial concepts and

landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

U.S. HISTORY I (232) [CP]

**Prerequisite – None**

**Credits – 5      Year Offered – 10**

U.S. History I is a study of our history from the colonial period through World War One. The course aims to give students a fundamental background and understanding of the development of our nation, our heritage, the Constitution, and of the part played by various groups in our nation's development. Special attention will be given to those past events which can be directly related to present day situations and problems by incorporating a current events program in the course.

U.S. HISTORY I HONORS (229) [HONORS]

**Prerequisites – World History, or AP World History, and Teacher Recommendation**

**Credits – 5      Year Offered – 10**

This course is designed to prepare students for the AP US History Course. It is a comprehensive study of the major developments in American history from the period of colonization to the end of the 19th century. Students will be expected to read a variety of historical sources in addition to the textbook. Emphasis will be placed on the writing of essay tests and the evaluation and interpretation of the materials read. All students are expected to enroll in AP US History the following year.

U.S. HISTORY II (242) [CP]

**Prerequisite – US History I**

**Credits – 5      Year Offered – 11**

U.S. History II begins at the turn of the 20th century and examines the political, economic, social developments and the foreign policies of our country in the 20th century. Students will relate their study of the past to present day problems in legislation, social policy, foreign affairs, and constitutional issues.

ADVANCED PLACEMENT U.S. HISTORY II (250) [AP]

**Prerequisites – Honors US History I and Teacher Recommendation**

**Credits – 5      Year Offered – 11**

The Advanced Placement US History course reviews the major developments and investigates a series of themes in American history in greater depth than in the honors course. This course will require the student to write essays at least once every two weeks on interpretative works and monographs studied in class. The purpose of this class is to prepare students for the Advanced Placement examination which is given in May of each year. College credit may be granted to students who scores indicate mastery of the subject.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

SOCIOLOGY (247) [CP]

**Prerequisite – None**

**Credits – 2.5      Years Offered – 10, 11, 12**

Sociology is the study of the nature, origin, and development of human society and community life. Included in the course is a study of human beings and their relations with other human beings in groups such as the school, the family, the job, etc. It attempts to demonstrate the personal adjustments that must be made in order to live a happy and productive life.

ADVANCED PLACEMENT U.S. GOVERNMENT & POLITICS (254) [AP]

**Prerequisite – None**

**Credits – 5      Years Offered – 11, 12**

This course will give students an analytical perspective on government and politics in the United States. The curriculum will include both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. Students will demonstrate a familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. This course is offered through an online platform. Students must maintain a full daily schedule in addition to this course.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

ADVANCED PLACEMENT MACROECONOMICS (258) [AP]

**Prerequisite – None**

**Credits – 5      Years Offered – 11, 12**

AP Macroeconomics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and

international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

**\*Fulfills financial lit requirement**

**AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.**

21<sup>st</sup> CENTURY CIVICS (244) [CP]

**Prerequisite – None**

**Credits – 2.5      Years Offered – 10, 11, 12**

This course introduces students to the political and legal system of the United States. Emphasis is placed on the evolution of our Constitutional system, the distinction between criminal and civil law, and the judicial process.

THE HOLOCAUST, GENOCIDE, & MODERN HUMANITY (Kean University Dual Enrollment Program) (249) [HONORS]

[Holocaust Class Video](#)

**Prerequisite – None**

**Credits – 5      Years Offered – 10, 11, 12**

This course will introduce students to the history of the Holocaust and the wider question of genocide and human rights in history and our contemporary world. We will explore how an understanding of the origins and continuation of genocide challenges societies to be more tolerant, pluralistic and open. Study will include a focus on both perpetrators and victims of the Holocaust, comparative genocide, an exploration and application of the Universal Declaration of Human Rights in today's world and a unit on leadership in historical and contemporary times. Students will be empowered to take action on an issue of importance to them in today's world. Students will be eligible for 3 course credits through Kean University. Please review the Kean University Dual Enrollment policies located on page 15.

CRIMINAL JUSTICE IN AMERICA (Kean University Dual Enrollment Program) (245) [HONORS]

**Prerequisite – None**

**Credits – 2.5      Years Offered – 10, 11, 12**

The course is an overview of the American criminal justice system, emphasizing the police, courts, and corrections. Discussion topics will include the role of the police in a democratic society, the tension between due process and the need for order, and issues of punishment involving proportionality, rehabilitation, and public safety. Please review the Kean University Dual Enrollment policies located on page 15.

PSYCHOLOGY: THE SCIENCE OF THE MIND (240) [CP]

**Prerequisite – None**

**Credits – 2.5      Years Offered – 9, 10, 11, 12**

This is a semester course that introduces the student to the field of psychology for a better understanding of the human mind. Topics include an examination of the history and scientific methodology of psychology; neuropsychology; thinking, language and intelligence; states of consciousness, personality theory; and social psychology. This course is independent of Psychology: The Science of Behavior.

PSYCHOLOGY: THE SCIENCE OF THE BEHAVIOR (241) [CP]

**Prerequisites – None**

**Credits – 2.5      Years Offered – 9, 10, 11, 12**

This is a semester course that introduces the student to the field of psychology for a better understanding of human behavior. Topics include an examination of the history and scientific methodology of psychology; lifespan development; biological foundations of behavior; motivation and emotion; stress and health; learning; and psychological disorders and treatments. This course is independent of Psychology: The Science of the Mind.

FORENSIC PSYCHOLOGY (256) [CP]

**Prerequisite – Psychology: The Science of The Mind & The Science of the Behavior; BCC Psych 105/216; AP Psychology**

**Credits – 5      Years Offered – 10, 11, 12**

Forensic Psychology is the application of psychology to legal issues. This course will provide a foundational understanding of the intersection of psychology and the law. It will introduce students to related topics such as the roles and responsibilities of forensic psychologists, forensic psychological assessments, lie detection, evaluation of DNA and physical evidence, jury selection, the insanity defense, criminal profiling, eyewitness and expert testimony, offender treatment, and victimology. By examining case studies, trials, established and emerging laws, relevant research, students will gain knowledge into psychological aspects and theories of criminal activity, as well as a basic understanding of how the major mental disorders may cause, aggravate, or mitigate criminal behavior.

ADVANCED PLACEMENT PSYCHOLOGY (251) [AP]

**Prerequisite – Psychology: The Science of the Mind and Psychology: The Science of Behavior and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

AP Psychology is a continuation of the psychology class which is a survey course about an individual's development and his/her reaction to the surrounding environment and the study of society as a whole. AP Psychology will examine the topics covered in the introductory course in greater depth in order to prepare students for the AP examination given every May. The writing of essays, short research papers, and the analysis of data from experimental studies in the text will be a major expectation of the course.

**AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.**

INTRO TO PSYCHOLOGY (BCC Dual Enrollment Program - BCC Psych 105) (252) [AP]

**Prerequisite – please see <https://www.brookdalecc.edu/admissions/dual-enrollment-for-high-school-students/>**

**Credits – 2.5      Years Offered – 10, 11, 12**

Students will demonstrate an understanding of psychology as a science. They will complete exercises covering fundamental areas of the discipline: history of psychology, scientific method, sensation and perception, learning and memory, IQ and personality testing. Students will gain the ability to examine these subjects from a critical and diverse point of view: the roles of gender, cultural and individual differences are systematically explored. Students will be eligible for 3 course credits through Brookdale Community College. Please review the BCC Dual Enrolment policies located on page 36.

ABNORMAL PSYCHOLOGY (BCC Dual Enrollment Program - BCC Psych 216) (255) [AP]

**Prerequisite – please see <https://www.brookdalecc.edu/admissions/dual-enrollment-for-high-school-students/> - need to have passed BCC Psych 105**

**Credits – 2.5      Years Offered – 10, 11, 12**

The student will demonstrate knowledge of the description, natural history and psychodynamics of various types of abnormal behavior in order to function effectively as a member of a treatment team. Students will be eligible for 3 course credits through Brookdale Community College. Please review the BCC Dual Enrolment policies located on page 36.

CONTEMPORARY WORLD HISTORY (BCC Dual Enrollment Program - BCC HIST 107) (259) [AP]

**Prerequisite – please see <https://www.brookdalecc.edu/admissions/dual-enrollment-for-high-school-students/>**

**Credits – 2.5      Years Offered – 11, 12**

This course is designed to provide students with the framework of the contemporary world which will be discussed by examining key historical developments since 1945, including the Cold War and the fall of communism, as well as the independence movements and revolutions in Asia, Africa, Latin America and the Middle East. Relying on a variety of historical readings and current accounts, emphasis will be placed on understanding the historical readings and contemporary issues such as international conflict, the environment, human and natural resources and global cultural and economic trends. Students will be eligible for 3 course credits through Brookdale Community College. Please review the BCC Dual Enrolment policies located on page 36.

RECENT AMERICAN HISTORY (BCC Dual Enrollment Program - BCC HIST 137) (260) [AP]

**Prerequisite – please see <https://www.brookdalecc.edu/admissions/dual-enrollment-for-high-school-students/>**

**Credits – 2.5      Years Offered – 11, 12**

The student will recognize and assess the major forces that have shaped the course of American domestic and foreign policies since World War II (1945). The student will analyze the inter-relationship and consequences of foreign and domestic events. Students will be eligible for 3 course credits through Brookdale Community College. Please review the BCC Dual Enrolment policies located on page 36.

## **TECHNOLOGY EDUCATION**

INTRODUCTION TO COMPUTER SCIENCE (717) [STANDARD]

**Prerequisite – None**

**Credits – 5      Years Offered – 10, 11, 12**

Students will learn foundational Python programming skills, C programming, and Java programming skills to gain a broad understanding of the range and type of programming languages in use today. Students will also learn about cybersecurity, build robots, and create two dimensional games using various pieces of software in many programming languages.

COMPUTER AIDED DRAFTING AND PROJECT DEVELOPMENT (712) [STANDARD]

**Prerequisite – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

This course will focus on the fundamentals of technology through the application of design and problem solving resulting in the invention of solutions to 'real world' technological problems. Students will identify problems, build prototype solutions, and document their design work on the computer through student portfolios. Activities will include, but are not limited to problems in structures, basics in computer aided design, and projects involving simple machines. Students will build skills in problem solving, design, creative thinking, teamwork, and the application of drafting principles. Computer Aided Drafting and Project

Development is an entry point for student designing and drawing and is especially valuable for students interested in engineering, construction, and other technical industries

#### COMPUTER AIDED DRAFTING AND ENGINEERING II (713) [STANDARD]

**Prerequisite – Computer Aided Drafting and Project Development**

**Credits – 5      Years Offered – 10, 11, 12**

Computer-aided design (CAD) and an introduction into several common fields of engineering by utilizing computer-aided design is the focus of this course. Students will explore 2-d and 3-d modeling and design while learning the 'language' of engineering. Through this language, students will be able to communicate their design ideas to others using traditional and computer design concepts. Students will be involved in the design and presentation of solutions to problems in mechanical, industrial, and architectural engineering. Students will conceive, design, model, animate, and in many cases, construct working prototypes.

#### TELEVISION PRODUCTION I (710) [STANDARD]

**Prerequisites – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

This course introduces students to the use of television filming, editing and producing. Students will use equipment including television cameras, audio mixing board, set lighting, computer and video software. Projects include studio-based news broadcasts as well as short-form creative videos (music videos, short films, sitcoms, and many others). Students will be evaluated on classwork, film collection during lab experience and projects.

#### TV BROADCASTING (711) [STANDARD]

**Prerequisites – Television Production I and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

Students' familiarity with all job positions in the studio, editing software, and audio/video production software is required for this course. Students in the course are responsible for all aspects of the RHS Morning Show. This includes production and all content for the daily show. The curriculum will involve production work, learning all new systems, and how they benefit the fast paced world of today's media. Students expectations also include interviewing staff and students, filming events for content, and maintaining a professional and positive relationship with members of our educational community.

#### TELEVISION PRODUCTION II (714) [STANDARD]

**Prerequisite – Television Production I**

**Credits – 5      Years Offered – 10, 11, 12**

Television II continues the practices and techniques learned in Television I and explores a deeper level of professional quality work. The curriculum will involve several longer form projects, with an emphasis on technical proficiency. Students will be taught and expected to be self-motivated, manage time efficiently, and maintain a strong work ethic. Familiarity with all job positions in the studio, editing software, and audio/video production software is required for this course.

#### TELEVISION PRODUCTION III (709) [STANDARD]

**Prerequisites – TV Production I, TV Production II, Interview, and Teacher Recommendation Required**

**Credits – 5      Years Offered – 11, 12**

Television III focuses on narrative storytelling and continues to build on the foundation of Television 1 and 2 by introducing the key concepts in the areas of writing, sound design, lighting design, and editing. Classroom lessons are built on a workshop structure featuring practical hands-on time with new equipment prior to implementing in student work. Students will engage in more festival entries both within the state and country in an effort to learn the ins and outs of managing independent distribution of final work.

#### TELEVISION PRODUCTION IV HONORS (720) [HONORS]

**Prerequisites – TV Production I AND TV Production II, Interview, and Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

This independent study course will allow students to expand their TV Broadcasting knowledge even further. Students will be able to work on long-form segments for Rocket News as well as expand out into the community. The class will go to local businesses and organizations to film commercials and advertisements for their business or events that they are holding. This will allow Rocket News and Raritan High School to expand more into the Hazlet Community. Students will get real-world experience in this course and walk away with a portfolio for college admissions, internships, and jobs. Students will also learn public relation skills, public speaking skills as well as organization and professionalism.

#### ENGINEERING AND MANUFACTURING PROCESSES I (722) [CP]

**Prerequisite – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

In this course, students will invent solutions to real world technological problems using hand and machine tools while working with various materials that include wood, metal, and plastic. Students learn to design, build, and finish numerous products with an attention to detail and precision using a variety of processing technologies. This course encourages valuable real-world

skills such as: problem solving, design, critical thinking, systems thinking, team work, documentation, and computer applications and is ideal for those who are considering any field of engineering as a future career.

#### ENGINEERING AND MANUFACTURING PROCESSES II (723) [CP]

**Prerequisite – Engineering and Manufacturing Processes I**

**Credits – 5      Years Offered – 10, 11, 12**

Building upon skills acquired from Engineering & Manufacturing Processes I students will design, develop, and create more complex projects that solve “real world” problems using metal, plastic and wood. As a part of our STEM initiative this course meets the technological needs of our students looking to major or work in the areas of engineering, construction, and Computer Assisted Drafting.

#### CREATIVE DESIGN (724) [CP]

**Prerequisites – Engineering & Manufacturing Processes, Teacher Recommendation, Interview, and one of the following: Engineering & Manufacturing Processes II, or Introduction to Computer Science, or Coding, and Application Development, or Computer Aided Design and Project Development, or Computer Aided Design and Engineering, or AP Computer Science A, or AP Computer Science Principles**

**Credits – 5      Years Offered – 11, 12**

In the Creative Design course, students will develop proposals for projects based around a personal, community or societal need. Students will complete the necessary research, planning, and designing needed to implement their proposal. The course is designed for students to collaborate with their classmates, teachers, and community members to design and create works suitable to be used in real world applications.

#### AP COMPUTER SCIENCE A (715) [AP]

**Prerequisite – One of the following: Algebra I, or AP Computer Science Principles, or Introduction to Computer Science**

**Credits – 5      Years Offered – 11, 12**

This course introduces students to computer science with fundamental topics in the JAVA programming language that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

## **VISUAL & PERFORMING ARTS**

#### ART I (541) [STANDARD]

**Prerequisite – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

Art I is a comprehensive study in the fundamentals of art including studio, history, aesthetics, criticism and technology. Students will receive hands-on learning using various art media and the computer focusing on the Elements of Art & Principles of Design. Students will learn drawing, painting, color theory, printmaking and graphic design. Special effort is made to help students develop one's own creativity and style and to understand the value of the experience.

#### DRAWING AND PAINTING I (543) [STANDARD]

**Prerequisite – Art I**

**Credits – 5      Years Offered – 10, 11, 12**

This course will focus on studio art with an emphasis on watercolor, pen and ink, pastels, acrylic painting, and two dimensional art. It will require the utilization of knowledge and skills acquired in the previously completed Art 1 course. Included in this course will be art appreciation, supplemented with visual aids.

#### DRAWING AND PAINTING II (544) [STANDARD]

**Prerequisite – Drawing & Painting I**

**Credits – 5      Years Offered – 11, 12**

Drawing will be an integral part of this program, with a concentration on various techniques including watercolor, acrylics, and oils. Linked with these studies will be exposure to painting styles of different cultures, such as Japanese, Chinese, Indian, African, and pre-20<sup>th</sup> Century Western

Civilization. This course will provide for the preparation of an art portfolio.

### 3D DESIGN (545) [STANDARD]

**Credits – 5      Years Offered – 10, 11, 12**

3D Design is designed for those students who wish to develop an interest in crafts for personal use, for professional or vocational exploration. It is the foundation course for a major sequence in art. Included in this course will be ceramics, paper crafts and printmaking, textiles, and sculpture. Development of competence in the crafts field, appreciation of crafts and creative craftsmanship will be emphasized.

### ADVANCED 3D DESIGN (546) [STANDARD]

**Prerequisite – Art I and/or 3D Design**

**Credits – 5      Years Offered – 11, 12**

The Advanced 3D Design course is designed for students who wish to pursue more complex handicrafts. Areas of concentration will include glass stained techniques, silk screen study, sculpture, silk painting, tile printing, wood burning, and paper making, Emphasis will be placed on the historical aspect of these specific areas and their function in society today.

### SCULPTURE (551) [STANDARD]

**Prerequisites – Art I AND 3D Design**

**Credits – 5      Years Offered – 11, 12**

This course will develop technical skills, craftsmanship and appreciation for three-dimensional art forms. Students will be exposed to traditional sculpting material as well as exploring sculpture with non-traditional material. Students will also be exposed to a variety of sculpture methods. The history of Sculpture as well as modern sculpture will be studied. This class is designed with a studio environment that incorporates class discussions, reflections and critique.

### AP STUDIO ART (571) [AP]

**Prerequisites – Art I, Drawing and Painting, and Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

AP Studio Art is intended for the highly motivated student who is interested in pursuing the study of art and wishes to obtain college credit for doing so. Through studio practice, application of design concepts and informed decision making, these students will assemble a body of artwork that demonstrates a high level of quality and growth over time of content, technique, and process. Students will investigate all three parts of their portfolios as required by the AP College Board: Quality, Concentration, and Breadth.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam..***

### CONCERT CHOIR (552) [STANDARD]

**Prerequisites – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

The high school choir is open to any student in grades 9 through 12 interested in singing as a member of a choral ensemble. Students learn the discipline of choral singing, breathing, and the basic fundamental techniques which include diction, pronunciation, articulation, phrasing, etc. The musical selections would accommodate the levels of vocal ability and performance experience.

### CONCERT CHOIR HONORS (554) [HONORS]

**Prerequisites – One previous year of Concert Choir, and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

Honors Concert Chorus is a more advanced approach to the material in Concert Chorus. Students will be required to audition for an honors ensemble or participate in at least one other performance ensemble in the Music Department. Students will perform all scales/ rudiments by memory for their midterm and final.

### CONCERT BAND (549) [STANDARD]

**Prerequisite – Ability to play a band instrument**

**Credits – 5      Years Offered – 9, 10, 11, 12**

The band is an instrumental group of full concert proportions which is open to all students who play a band instrument at the prerequisite level. The band is developed from the military band concept and places responsibility upon each individual. All band members are automatically eligible for the marching band and jazz band. Emphasis is placed on concert music, tuning and balance. An opportunity will be offered for members to secure experience in all fields of instrumental music. Ample opportunities will be offered to students who demonstrate aptitude towards composing, arranging and performing.

### SYMPHONIC BAND HONORS (570) [HONORS]

**Prerequisite – One previous year of Concert Band and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

Symphonic Band is a more advanced approach to the material in Concert Band. Students will be required to audition for an honors ensemble or participate in at least one other performance ensemble in the Music Department. Students will perform all scales/rudiments by memory for their midterm and final.

#### MUSIC THEORY I (556) [STANDARD]

**Prerequisite – Concert Band/Honors, Chorus/Honors, or Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

Introduction to Music Theory is a prerequisite course for AP Music Theory. The course will target underclassmen, especially sophomores and juniors interested in continuing on to AP Music Theory. The class will offer basic musicianship skills that will be the foundation of more advanced concepts offered in the AP level class. Students will be given the opportunity to learn how to read music, understand rhythms, basic analysis of chord progressions, ear training, and dictation.

#### MUSIC THEORY II HONORS (574) [HONORS]

**Prerequisite – Concert Band/Honors, Chorus/Honors, or Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

Music Theory II Honors will be a continuation of Music Theory I, but taking a music history approach beginning with Baroque to 21st Century Music. The class will also enhance skills on harmonic progression and understanding chords and symbols.

#### ADVANCED PLACEMENT - MUSIC THEORY III (590) [AP]

**Prerequisites – Introduction to Music Theory and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

Students will expand on the skills taught in Intro To Music Theory. The students will be working on skills relating to the elements of music theory and composition, and will learn how these elements are used in music. The emphasis will be on rules of theory and composition, ear training, sight singing, analysis, and keyboard skills. The course is designed both for students who desire to prepare for music as a career as well as those who desire it for personal enrichment.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam.***

#### HISTORY OF ROCK/POP MUSIC (557) [STANDARD]

**Prerequisite – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

Rock and pop music, as we know it, developed in the 1950's. This new form of music spun off of development made in jazz, blues, and country music. Rock/pop music history class would teach students how this musical form grew and developed, influencing culture, fashion, style and history. Students will also have the opportunity to perform and create this form of music using music technology by way of operating a professional soundboard and recording through computer software.

#### INTRODUCTION TO DRAMA (560) [STANDARD]

**Prerequisite – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

Introduction to the Theatre/Drama 1 is primarily an exploratory course. All of the elements of theatre and acting (imagination, concentration, sense awareness, pantomime, make-up, stage work and script work) are explored in this first year. This course is designed to increase the students' appreciation and enjoyment of theatre from two points of view, that of the audience and that of the actor or stage technician.

#### THEATRE/DRAMA II (562) [STANDARD]

**Prerequisite – Introduction to Drama and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

A recommended sequel to Introduction to the Theatre/Drama 1, the course is a beginning acting class which concentrates on the techniques of creating a character from a play. Students learn how to discover those inner resources which can be trained for use in theatre. Individual and group exercises culminate in scene work from comic and serious plays.

#### HONORS CHARACTER AND SCENE EXPLORATION I (563) [HONORS]

**Prerequisite – Theatre/Drama II and Teacher Recommendation**

**Credits – 5      Years Offered – 11, 12**

This course is designed to prepare the student for a college level acting course. It explores advanced character analysis and specific theatrical master techniques. Some of the techniques will be the Stanislavski Method, the Sanford Meisner Approach and tasks by Uta Hagen. These are all masters of their craft and their methods allow students to get deeper inside a character through monologues and scene work. The course will include lectures, demonstrations and multi-sensory experiences.

#### HONORS CHARACTER AND SCENE EXPLORATION II (565) [HONORS]

**Prerequisite – Honors Character and Scene Exploration I**

**Credits – 5      Year Offered – 12**

Character/Scene Exploration II is for seniors preparing to study drama in college. It is a fourth year course designed for the serious drama student centering on the different techniques an actor uses to prepare for, build and create a role. Some of the master techniques used are Stanislavski, Sanford Meisner and Uta Hagen. It involves scene work, movies, class discussions and research.

**MUSIC BUSINESS (591) [STANDARD]**

**Prerequisite – History of Rock and Roll or Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11, 12**

Music Business will present a broad overview of the music industry, and explains how its various segments operate on a day-to-day basis. The class will discuss the new developments in digital technology that are changing the way that music is marketed, promoted, distributed, and heard. This course presents the career opportunities that are available within the industry and allows students to enter into the roles of many of those careers.

**PRACTICUM (595) [STANDARD]**

**PreReq - Must be an active student in the PAA**

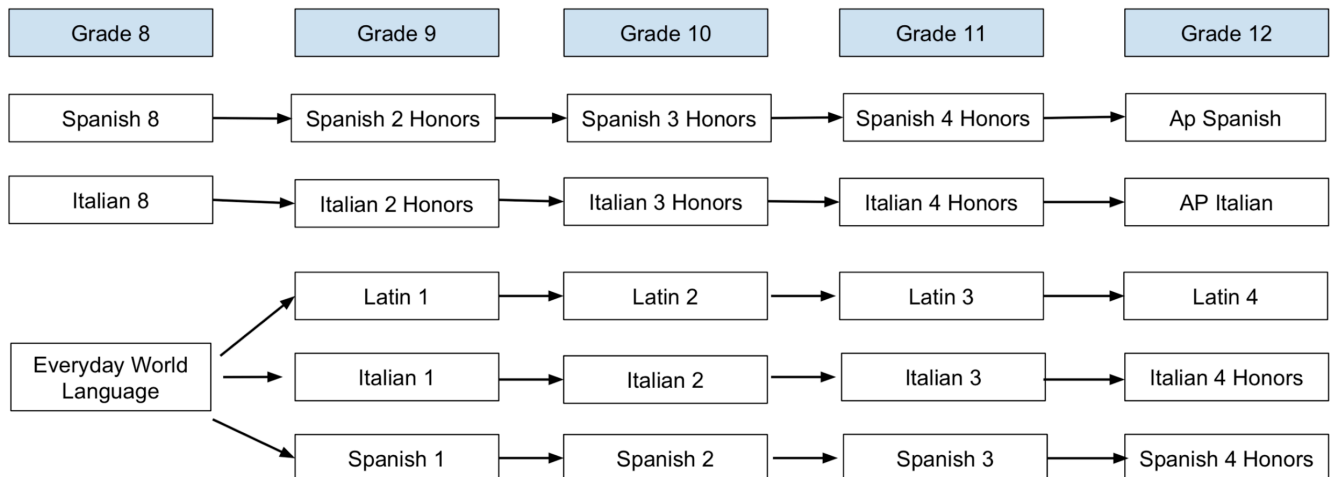
**Practicum 1 Junior Year; Practicum 2 Senior Year**

**Credits – 5      Years Offered – 10, 11, 12**

The PAA Practicum 1 is designed for the Performing Arts Academy student to prepare for college auditions, resume writing, and field experience. Each Performing Arts Academy student will work together with other PAA disciplines to present in-house and field projects and presentations utilizing their training. This is a requirement of the PAA.

## **WORLD LANGUAGE**

### *World Language Course Sequence*



**SPANISH I (512) [CP]**

**Prerequisite – None**

**Credits – 5      Years Offered - 9, 10, 11**

Spanish I is designed for students who are beginning their study of the language to enable them to listen and read with comprehension, as well as to express themselves orally and in written form. Cultural information will be diffused throughout the material. The study of art, music, and customs of the Hispanic world will be introduced.

**SPANISH II (514) [CP]**

**Prerequisite – Spanish I**

**Credits – 5      Years Offered- 9, 10, 11, 12**

As a continuation of Spanish 1, this course will continue to reinforce vocabulary, grammar and language skills learned in the first year. Spanish II continues to focus on oral and written communication as well as comprehension of the target language. Grammatical concepts will continue to be taught to add to the foundation for more advanced levels of the language.

**SPANISH II HONORS (519) [HONORS]**

**Prerequisite - 93 in Spanish I and Teacher Recommendation**

**Credits – 5      Years Offered – 9, 10**

This course is designed to challenge the highly motivated student to achieve their fullest potential in the study of the Spanish language. Oral and written communication will be covered in-depth and added assessment materials will be utilized in an effort to guide students to further study.

**ITALIAN I (530) [CP]**

**Prerequisite – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

Italian I is designed for students beginning their study of the language. The emphasis is on enabling students to listen and read with comprehension, as well as to express themselves orally and in written form. Cultural information will be diffused throughout the material. Appreciation for history, art and the social life of the Italian people will be introduced.

**ITALIAN II (531) [CP]**

**Prerequisite- Italian I**

**Credits – 5      Years Offered - 9, 10, 11, 12**

As a continuation of Italian I, this course will continue to reinforce vocabulary, grammar and language skills learned in the first year. Italian II continues to focus on oral and written communication as well as comprehension of the target language. Grammatical concepts will continue to be taught to add to the foundation for more advanced levels of the language.

**ITALIAN II HONORS (532) [HONORS]**

**Prerequisite – 93 in Italian I and Teacher Recommendation**

**Credits – 5      Years Offered – 9, 10**

This course is designed to challenge the highly motivated student to achieve their fullest potential in the study of the Italian language. Oral and written communication will be covered in depth and added assessment materials will be utilized in an effort to guide students to further study.

**SPANISH III (516) [CP]**

**Prerequisite- Spanish II**

**Credits – 5      Years Offered – 10, 11, 12**

As a continuation of Level II, Spanish III is designed to further improve the student's listening, speaking, reading, and writing skills in the target language, as well as his/her knowledge of and appreciation for the Hispanic culture. Both language and culture are presented in real-life context through audio and visual materials, dialogues, written exercises, and authentic reading materials. A communicative environment is fostered through daily exchanges in Spanish with the teacher and small group activities.

**ITALIAN III (534) [CP]**

**Prerequisite- Italian II**

**Credits – 5      Years Offered – 10, 11, 12**

As a continuation of Level II, this course reinforces the cultural components, vocabulary, and language skills previously learned. New cultural and grammatical concepts are introduced in context, building upon the student's acquired knowledge, expanding his/her understanding of the language and the cultures in which it is spoken. Emphasis, as always, is on the students' ability to communicate in the target language.

**SPANISH III HONORS (520) [HONORS]**

**Prerequisite – Spanish II Honors and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11**

Spanish III Honors is designed to immerse students in the language and culture of the Spanish-speaking world. They will have the opportunity to use and perfect the listening, speaking, reading, and writing skills acquired in previous Spanish courses to communicate with the teacher and their classmates in the target language. Communicative approaches, cooperative learning tasks, and other activities will be used to assess competency in the target language, as well as cultural competency. This class is conducted in Spanish, and students are expected to speak Spanish to the best of their ability.

**ITALIAN III HONORS (533) [HONORS]**

**Prerequisite – Italian II Honors and Teacher Recommendation**

**Credits – 5      Years Offered – 10, 11**

This course is a continuation of Italian II Honors. This course is designed to challenge the highly motivated student to reach their fullest potential in the Italian language. Students will improve speaking, listening, reading, and writing skills emphasizing modern Italian language, culture, and traditions. Students will be instructed and assessed in methods similar to those of advanced placement programs.

**SPANISH IV HONORS (517) [HONORS]**

**Prerequisite – Spanish III**

**Credits – 5      Years Offered – 11, 12**

Spanish IV Honors is an advanced course designed to perfect students' conversation and writing skills. Students will base their discussions on authentic sources from a variety of cultural settings. The listening, reading, writing, and speaking skills will be taught in an integrated way. Students will focus on synthesizing the information presented in various forms of media, essays, printed and online articles, short stories, short films, television programs, and radio broadcasts. Vocabulary, structures, and cultural competency will be assessed through quizzes, tests, oral presentations, journal entries, and formal compositions. This class is conducted in Spanish, and students are expected to speak Spanish only.

#### ITALIAN IV HONORS (535) [HONORS]

##### **Prerequisite – Italian III**

**Credits – 5      Years Offered – 11, 12**

This course allows the student the opportunity to use his/her previously acquired knowledge of the culture, vocabulary and language skills to understand, discuss, analyze and evaluate the literature and history of the countries and regions in which the target language is spoken.

#### AP ITALIAN (536) [AP]

##### **Prerequisite – Italian IV**

**Credits – 5      Year Offered – 12**

Advanced Placement Italian Language and Culture is intended to continue developing students' skills in reading, writing, listening and speaking within a cultural frame of reference reflective of the Italian language and culture. Students will study literature, geography, the arts and sciences, as well as contemporary life in Italy and social customs and traditions. The class will be conducted in Italian. Students will be qualified to take the advanced placement exam.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam..***

#### AP SPANISH (518) [AP]

##### **Prerequisite – Spanish IV**

**Credits – 5      Year Offered – 12**

The AP Spanish Language and Culture course is a rigorous course taught exclusively in Spanish that requires students to improve their proficiency across the three modes of communication. The course focuses on the integration of authentic resources including online print, audio, and audiovisual resources; as well as traditional print resources that include literature, essays, and magazine and newspaper articles; also a combination of visual/print resources such as charts, tables, and graphs; all with the goal of providing a diverse learning experience. Students communicate using rich, advanced vocabulary and linguistic structures as they build proficiency in all modes of communication toward the pre-advanced level. Central to communication is the following premise from the Curriculum Framework: *When communicating, students in the AP Spanish Language and Culture course demonstrate an understanding of the culture(s), incorporate interdisciplinary topics (Connections), make comparisons between the native language and the target language and between cultures (Comparisons), and use the target language in real-life settings (Communities).* The class will be conducted in Spanish.

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam..***

#### LATIN I (537) [CP]

##### **Prerequisites – None**

**Credits – 5      Years Offered – 9, 10, 11, 12**

This course is for students beginning their study of the language. As an initial course, it is designed to enable the student to listen and read with comprehension and to speak and write so as to be understood. Correct pronunciation, vocabulary acquisition and grammatical principles will be integrated into the civilization of Rome and Greece with a particular focus on mythology, history and daily life.

#### LATIN II (538) [CP]

##### **Prerequisite – Latin I**

**Credits – 5      Years Offered – 10, 11, 12**

As a continuation of Level I, this course reinforces the cultural components, vocabulary and language skills previously learned. New vocabulary, cultural and grammatical concepts are presented in familiar and unfamiliar contexts, allowing students to use their acquired knowledge to improve their facility in the target languages.

#### LATIN III (539) [CP]

##### **Prerequisites – Latin I & II**

**Credits – 5      Years Offered – 11, 12**

As a continuation of Level II, this course reinforces the components of grammar and word origins. Emphasis is also placed on vocabulary skills and cultural concepts so that students may better understand the linguistic heritage of western civilization.

#### LATIN IV HONORS (542) [HONORS]

**Prerequisites – Latin I, Latin II, Latin III, Teacher Recommendation, and 85 or above in Latin III**

**Credits – 5      Years Offered – 11, 12**

As a continuation of Level III, this course reinforces the components of grammar and word origins. Emphasis is also placed on vocabulary skills and cultural concepts so that students may better understand the linguistic heritage of western civilization.

AP Latin (540) [AP]

**Prerequisite –**

**Credits – 5      Year Offered – 11, 12**

A full year AP Latin course is designed for students to learn to read and analyze Latin literature as you explore ancient Roman history and culture. The basic course objective should be to read, translate, understand, analyze, and interpret Latin in the original, with special emphasis paid to pertinent Roman cultural, social, and political history and the tradition of the ancient epic. Students will translate passages from the writings of Vergil and Caesar and examine them through class discussions, debates, and presentations..

***AP Exams will cost \$98 per exam (\*subject to change as per the College Board); District will not be covering the cost starting in 2023-2024 due to district budget cuts. Students can take the AP course and not take the AP exam..***

## **Monmouth County Vocational School District**

<https://www.mcvsd.org/>

### **VOCATIONAL EDUCATION**

<https://www.mcvsd.org/programs/shared-time-overview/>

#### **QUALIFICATIONS**

All students should have a sincere interest in the vocational program. Both male and female students are eligible to enroll in any program. All courses provide a combination of theory and practical work to prepare the student for entry-level employment skills or further specialized study. The Monmouth County Vocational Schools are shared-time schools with the student attending their home high school for half of the day and the vocational school for half a day. For further information, consult your high school counselor or call the Monmouth County Vocational School District: 732-431-6291.

#### **SHARED TIME OFFERINGS (20 Credits):**

- ALLIED HEALTH NURSING - Tinton Falls, 732-542-5455  
<https://www.mcvsd.org/programs/shared-time-overview/allied-health/>
- APPLIED MECHANICAL ENGINEERING  
<https://www.mcvsd.org/programs/shared-time-overview/advanced-manufacturing/>
- AUTO TECHNOLOGY <https://www.mcvsd.org/programs/shared-time-overview/automotive-technology/>
- CARPENTRY <https://www.mcvsd.org/programs/shared-time-overview/carpentry/>
- COMMERCIAL ART <https://www.mcvsd.org/programs/shared-time-overview/commercial-art/>
- COSMETOLOGY <https://www.mcvsd.org/programs/shared-time-overview/cosmetology/>
- CULINARY ARTS <https://www.mcvsd.org/programs/shared-time-overview/culinary-arts/>
- DENTAL ASSISTANT <https://www.mcvsd.org/programs/shared-time-overview/dental-assistant/>
- DIESEL MECHANICS <https://www.mcvsd.org/programs/shared-time-overview/diesel-mechanics/>
- ELECTRICITY <https://www.mcvsd.org/programs/shared-time-overview/electricity/>
- HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION (HVAC)  
<https://www.mcvsd.org/programs/shared-time-overview/hvac/>
- MARINE TRADES <https://www.mcvsd.org/programs/shared-time-overview/marine-trades/>
- NURSING ASSISTANT <https://www.mcvsd.org/programs/shared-time-overview/certified-nursing-assistant/>
- PATIENT CARE/MEDICAL ASSISTING  
<https://www.mcvsd.org/programs/shared-time-overview/patient-care-medical-assisting/>
- PLUMBING & PIPEFITTING <https://www.mcvsd.org/programs/shared-time-overview/plumbing-pipefitting/>
- WELDING <https://www.mcvsd.org/programs/shared-time-overview/welding/>

MONMOUTH COUNTY CAREER CENTER <https://www.mcvsd.org/programs/career-center/>

Offers programs for students with special needs, which include: Auto Mechanics; Baking; Building Services; Building Trades/Carpentry (Freehold Voc); Distributive Education and Retail Sales; Dry Cleaning and Textile Trades; Food Service; Health Occupations; Horticulture; Materials Handling; Office Occupations; Supermarket Careers (Asbury Park). Prior to entry

into one of the above, students have the opportunity to enroll in a Pre-Vocational Evaluation and Career Exploration program which provides hands-on experience in various occupational areas.

## **SENIOR OPTIONS**

### ***BROOKDALE DUAL ENROLLMENT***

#### **ALL DUAL ENROLLMENT COURSES RECEIVE HONORS WEIGHTING FOR GPA CALCULATION PURPOSES.**

Qualified seniors are invited to participate in the Dual Enrollment Program at Brookdale Community College. This program allows seniors to complete up to 12 college credits during their senior year.

To participate, high school students must:

- Have the permission of their high school
- Have senior status
- Submit a Brookdale Community College application (the \$25 application fee will be waived for students participating in the Dual Enrollment Program)
- Take ACCUPLACER (a basic skills placement test) and pass all sections or have the following SAT scores:
  - 540 to be waived from the math portion of ACCUPLACER
  - 540 to be waived from the reading and writing portion of ACCUPLACER
  - 520 to be waived from the writing portion of ACCUPLACER
- Sign a Brookdale Community College release form (parent will sign if student is under 18 years of age)
- Be responsible for all costs associated with the Dual Enrollment Program including, tuition, books, fees, and course materials
- Provide their own transportation to and from Brookdale Community College
- Be held to the terms and conditions of the Brookdale Community College students conduct code and student integrity code
- Adhere to the Brookdale Community College and high school academic calendars
- Maintain a minimum grade point average of 2.0 in Brookdale Community College courses to remain in the Dual Enrollment Program

Students will be released from their high school whether or not they have a class scheduled at Brookdale. Students are expected to attend Brookdale classes when their high school is not in session.

#### **WHY DUAL ENROLLMENT**

Taking Brookdale Community College courses while in high school can defray the total cost of attending college. Credits earned through dual enrollment can be used toward degree requirements at Brookdale and/or, depending on the program of study, transferred to a four-year college or university.

The Dual Enrollment Program enables students to accelerate their college career. Students enrolled in this program may enter their freshman year of college with advanced academic standing.

### ***KEAN UNIVERSITY DUAL ENROLLMENT***

#### **ALL DUAL ENROLLMENT COURSES RECEIVE HONORS WEIGHTING FOR GPA CALCULATION PURPOSES.**

Qualified seniors are invited to participate in the Dual Enrollment Program through Kean University. This program allows students to complete college credits while taking courses at RHS.

To participate, high school students must:

- Have the permission of their high school
- Submit a Kean University application (the application fee will be waived for students participating in the Dual Enrollment Program)
- Be responsible for tuition costs (\$300) associated with the Dual Enrollment Program
- Be held to the terms and conditions of the Kean University students conduct code and student integrity code
- Adhere to the Kean University and high school academic calendars

#### **WHY DUAL ENROLLMENT**

Taking Kean University courses while in high school can defray the total cost of attending college. Credits earned through dual enrollment can be used toward degree requirements at Kean University and/or, depending on the program of study, transferred to a four-year college or university.

The Dual Enrollment Program enables students to accelerate their college career. Students enrolled in this program may enter their freshman year of college with advanced academic standing.

### **AIM - Alternate Interim Model**

The AIM program is an alternative high school classroom designed for students who are required to continue their academic development through an alternative setting. Students qualified to enroll in AIM are recommended on a case-by-case basis by the collaboration of the Guidance Department and Administration. Independent study, with the assistance of the AIM teacher, is the cornerstone of the program as students will be registered for online courses to obtain academic credit upon completion. Alternative lessons, such as life and career skills, will be provided to prepare students for future success. Once students have achieved academic success in AIM, they will be enrolled back into general education courses. AIM is geared for juniors and seniors only and credits earned will vary from student to student.

### **ECA - Early College Academy**

Brookdale Community College and the Hazlet Township School District reached an agreement to offer the Explorer Early College Academy to incoming freshmen at Raritan High School. Brookdale and the HTSD are guided by similar visions, missions, and values; the commitment to educational access and attainment for all permeates both institutional cultures. The organizing principle of the ECA is the collaboration of people and resources to create new higher education opportunities for Raritan High School students. The ECA is intended to provide entry into higher education for academically-prepared high school students beginning in the 9th grade affording them the opportunity to concurrently earn an Associate of Arts degree while also achieving their high school diploma.

For more information and admission requirements, please see your school counselor or our website at: <https://www.hazlet.org/rhs/Content/52>

### **Performing Arts Academy**

[Click here for the Performing Arts Academy website](#)

The mission of the Raritan High School Performing Arts Academy is to provide students an opportunity to study the performing arts at an advanced level while attending a traditional high school and to pursue careers in the performing arts at prestigious schools and institutions of the arts. Performing Arts Academy students will participate in a college-preparatory curriculum of studies and will experience all disciplines of the Academy. Unlike traditional arts academies where students focus on only one aspect of the performing arts, the RHS PAA introduces theater, dance, instrumental, and vocal music to all of its members to create a well-rounded artist.

Performing Arts Academy students participate in multiple opportunities to showcase their talents in the form of theatrical performances, recitals, concerts, rehearsals, and community appearances. As PAA students take part in these activities, their involvement assists them with acquiring membership into the honor societies of theater, dance, and music.

Throughout the four-year program, members of the PAA will be taught by our highly trained faculty in accordance with the state and national standards of theater, dance, and music. Masterclasses and guest artists will contribute to the growth of a Performing Arts Academy student to create an understanding of the life of an artist.

Students who would like to be considered for the Raritan High School Performing Arts Academy must prepare an audition based on the specific criterion of the performing art that the student desires to study. Please review our

audition guidelines and dates which appear on the website.

## **Raritan High School's Pre-Engineering Academy**

[Click here for the RHS Pre-Engineering Academy website](#)

The mission of Raritan High School's Pre-Engineering Academy is to provide students with a focused pathway towards science and engineering careers while still having the well-rounded benefits of a traditional high school. The Pre-Engineering Academy will provide students with the knowledge, connections, and experience that they will need in the pursuit of in-demand careers in science, technology, and engineering.

The Pre-Engineering Academy curriculum is designed to work within state requirements for high school graduation, while focusing heavily on advanced science, technology, engineering and math courses, in order to best prepare students for the rigors of their future professions. The program requires four years of technology and engineering courses, as well as AP mathematics, AP computer science, and at least one AP level science.

Our Pre-Engineering students will have the opportunity to participate in internship opportunities outside of school at nearby businesses, which could develop into full-time careers during and after college, and provide a boost to students' resumes and give them a head start on the competition. Raritan High School has many STEM-related extracurricular offerings. Pre-engineering students are expected to participate in at least one per year. Choices include STEM Club, TSA, Science League, or Math League.

For more information and admission requirements please see your school counselor or visit our website link above.

## **Raritan High School's Academy of Health Careers**

[Click here for the RHS Academy of Health Careers Website](#)

Raritan High School has established a partnership with Rutgers University in which our students have the opportunity to earn college credit from Rutgers University by taking classes within the Academy. We have six classes that are a part of the Health Career Academy for the 2022-2023 school year and are looking to expand our offerings in the future. Our current course offerings are:

1. Dynamics of Healthcare in Society
2. Anatomy & Physiology Honors
3. Anatomy & Physiology Honors II
4. Medical Terminology
5. Scientific Principles of Nutrition

In addition to the five courses listed above, students enrolled in this academy will have to take the Clinical Healthcare Internship course to satisfy the Clinical Experience requirement from Rutgers University.

Parents/students will pay the exam fees for the Rutgers program. The cost is \$80 per exam.

## **Raritan High School Academy of Health Careers Scholar Project**

### **Goal:**

To recognize students who are enrolled in the Rutgers School of Health Profession courses. Students who achieve this will be recognized as Distinguished Scholars. This will be reflected on the students' transcripts and celebrated at graduation with regalia and recognition.

### **Criteria for Distinguished Scholars:**

Students have to successfully qualify to take the Rutgers final exam in at least three different courses. (students would not have to actually take the exam if they chose not to but they would have to meet the qualifications criteria of 70 or higher in each class)

Complete 30 hours of clinical experience.

**Recognition:**

Students who satisfy these requirements will be noted in the Graduation Ceremony Program and receive a red sash to be worn on their graduation gown.

**Rocket University Scholar Recognition**

Raritan High School students completing college-level work will be recognized in the Rocket University Project in four categories depending upon their achievements in the classroom. Students who attempt Advanced Placement (AP) or Dual Enrollment classes will be enrolled into the Rocket University. For each Advanced Placement or Dual Enrollment class, students will receive one (1) point toward their recognition in the Rocket University. Additional points can be achieved based on the student’s successful score on the AP Exam.

The sample table below proposes levels of distinction for students that meet Rocket University Project criteria.

**Sample Table**

<b>Commended</b>	<b>Distinguished</b>
8 Points or more	14 Points and above

Dual Enrollment Course – 1 Point per Semester

AP Class – 1 Point per Class

Additional Points based on Successful Grade on AP Exam

“3” – 1 Point

“4” – 2 Points

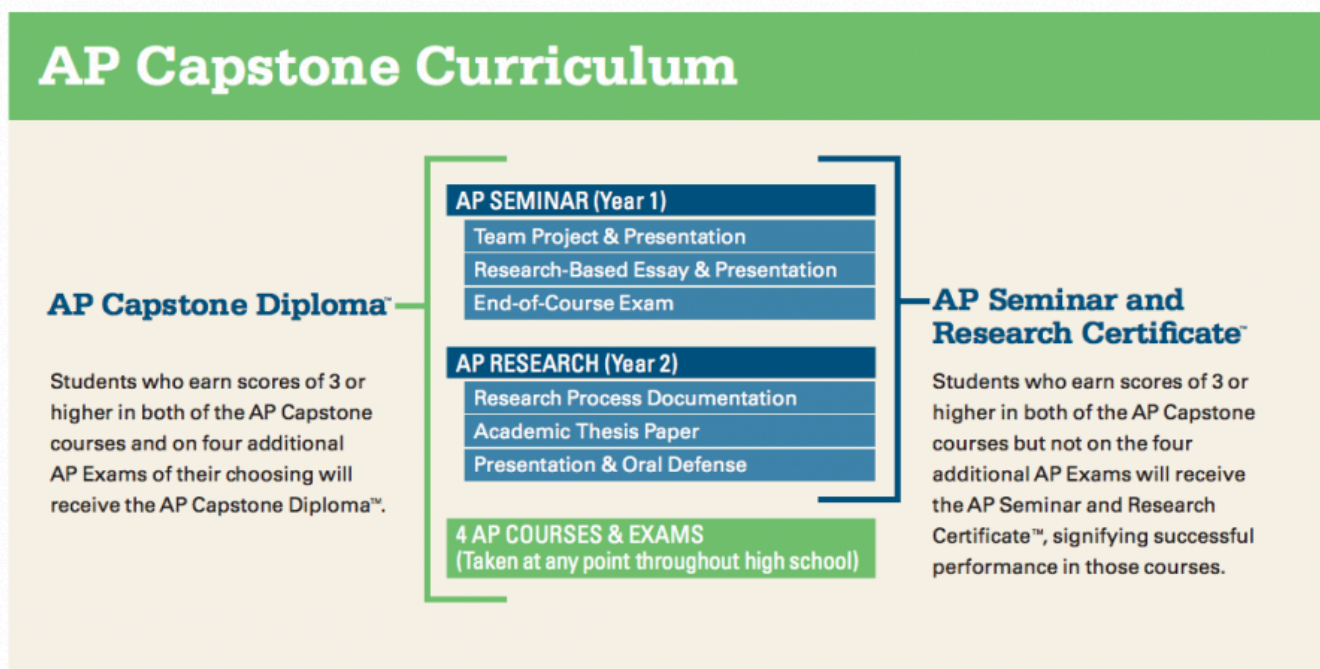
“5” – 3 Points

Students who achieve “Commended” or “Distinguished” status in the Rocket University will receive recognition during their senior year at graduation.

# AP Capstone™

CollegeBoard

The College Board's AP Capstone is an innovative and engaging college-level program for high school students that complements and enhances discipline-specific AP courses. It's built on two new courses—AP Seminar and AP Research—that immerse students in the practice of critical skills needed to distinguish themselves in college and life. AP Capstone is the pinnacle of the high school experience, encouraging a passion for learning and transforming students into curious, collaborative, and independent thinkers with skills that are valued and sought after by colleges and universities.



## The Benefits of AP Capstone

Participating in AP Capstone can help students:

- Stand out to colleges in the application process.
- Develop key academic skills they'll use in college and beyond.
- Become self-confident, independent thinkers and problem solvers.
- Earn college credit: Many colleges offer credit for qualifying scores.

## Raritan High School Course Planning Worksheet

Name: \_\_\_\_\_

Counselor: \_\_\_\_\_

**A MINIMUM OF 40 CREDITS IS REQUIRED EACH YEAR.**

GRADE 9		GRADE 10	
Course	Credit	Course	Credit
<b>Total Credits</b>		<b>Total Credits</b>	
		<b>Cumulative Credits</b>	

GRADE 11		GRADE 12	
Course	Credit	Course	Credit
<b>Total Credits</b>		<b>Total Credits</b>	
<b>Cumulative Credits</b>		<b>Cumulative Credits</b>	

**\*140 credits needed to graduate from Raritan High School\***