



**CARTERET HIGH SCHOOL  
PROGRAM OF STUDIES  
FOR THE  
2026-2027  
SCHOOL YEAR**



## **MISSION STATEMENT**

Mission Statement: Drawing on our cultural richness, Carteret Public Schools inspires and empowers students to be innovative, respectful, and confident leaders who will RISE to shape the world.

Core Values: **We are**

**Resilient**

**Aspiring**

**Motivated**

**Bold**

**Leaders**

**Educated**

and **Ready for Success**



## **MEMBERS OF THE BOARD OF EDUCATION**

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## **HIGH SCHOOL ADMINISTRATION**

Ms. Joanna Joaquin, Principal

Mrs. Jackie DePasquale, Vice-Principal

Mr. Byron Hamby, Vice-Principal

Mrs. Sweety Patel, Director of Student Personnel Services

Mrs. Grace Cunha, Athletic Director

## **THE SCHOOL COUNSELING DEPARTMENT**

Mrs. Dara Benjamin, School Counselor

Ms. Amy Lombardo, District School Counselor

Ms. Tatiana Paredes, School Counselor

Ms. Toni-Marie Planko, School Counselor

Ms. Kimberly Vaticano, School Counselor



## **Philosophy**

Carteret High School aspires to be a learning community that fosters collaboration between staff, students and parents. As educators, we will continuously strive to improve teaching methodologies through proven research based practices to ensure that we meet the needs of our uniquely individual learners. We will provide our Carteret High School family a safe learning community that is guided by a code of values that promote respect, diversity, opportunity and organizational structure.

The academic program is designed to ensure mandated programs as well as offer a variety of electives satisfying academic needs and personal interests. Students have an opportunity to personalize their program providing they meet required standards. They can take advantage of an accelerated academic program or choose to be involved in a work study option. Mandated remedial programs are in operation and tutorial help is available for those who request it.

Students are encouraged to actively participate in extracurricular activities. These activities satisfy a variety of student's interests and allow students to develop bonds. Friendships developed through academics, athletics and social activities go a long way in the development of character and citizenship. Participation in all extracurricular activities depends upon compliance with school discipline and attendance policies.

This Program of Studies booklet is a comprehensive resource that students should reference when seeking information regarding courses of study. It contains a description of all courses in the 2026-2027 instructional program, graduation requirements, college admission requirements, guidelines for entrance and withdrawal from courses, standards for special class placement, athletic eligibility rules, the method for computing overall grade point average and pupil records. It is important for parents and students to become familiar with this information before course selections are made.

As you examine the course selections in this booklet, please keep in mind not only your short-term needs, but also your long-term goals. At Carteret High School, we offer a variety of electives from which you may choose, and you should be mindful at all stages of planning that we also have a number of graduation requirements. Students and parents are urged to consult with their school counselor to develop an appropriate academic program. Together, school counselors, students and parents coordinate an appropriate academic plan by reviewing student achievement, interests and aptitude related to individual career or educational goals. Teachers



are also available to answer specific questions regarding course requirements and their importance toward intended college/career choices.

**Definition of Terms:** A philosophy is an expression of the fundamental beliefs concerning the role of the school in a given community. We offer the following definitions which an educational program should comprise:

- Curriculum is the planned and guided learning activities sponsored by the school.
- Core Curriculum refers to those aspects of the school program required of all students. This phase of the curriculum will require common heterogeneous learning experiences for all students and will develop attitudes and skills among students which are necessary for the common good.
- Special Education provides instructional support services to students with learning difficulties.
- Electives represent that aspect of the curriculum which is independent of any specialized curricular pattern and which offers students exploratory, special interest and enrichment courses from which they may select.
- Co-Curricular includes student activities which, rather than being extra-curricular, are actively interwoven into the other three areas of the curriculum wherever possible.
- Prerequisite is a course which you must satisfactorily complete before you may take certain other courses. For example, French II must be taken before French III.
- Co-Requisite is a course which you must take in conjunction with another course.
- Post-Secondary Education is any formalized program of studies occurring after high school.
- Technology-Based Projects will be incorporated into instruction to enhance the student's ability to process and display information in a variety of presentation formats.



## Graduation Requirements

Subject Area	Required Credits/Coursework for Diploma
English	20 Credits (4 years)
Math	15 Credits (3 years) to include Algebra 1 and/or Geometry (or content equivalent) and a third year of mathematics, such as Algebra 2, that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers.
Science	15 Credits (3 years) to include 5 credits of laboratory biology/life science; 5 credits of chemistry, environmental science or physics, and 5 credits of an additional lab/inquiry based science.
Social Studies	15 Credits (3 years) to include 5 credits in World History and 10 Credits in United States History; and the integration of civics, economics, geography and global content in all courses.
World Languages	5 Credits required 1 year
Comprehensive Health and Physical Education	5 Credits for PE & Health for each year of enrollment  *a minimum of 15 credits is required*
Visual & Performing Arts	5 Credits
Practical Arts/Technology 21 <sup>st</sup> Century Life & Careers	5 Credits
Financial Literacy/Economics	2.5 Credits
Elective Credits	22.5 Credits
State Assessments	See “Assessment Requirements” chart on the next page.
Total Credits	120 credits – Required minimum



## Class of 2026 High School Graduation Assessment Requirements

### English Language Arts and Literacy (ELA)

If, after completing the New Jersey Graduation Proficiency Assessment in grade 11, students did not demonstrate proficiency by passing the ELA component, such students may access the following pathways:

- Second Pathway: By meeting the designated cut score on a substitute competency test such as the PSAT, SAT, ACT, or ACCUPLACER; or
- Third Pathway: By submitting, through the district, a student portfolio appeal to the New Jersey Department of Education.

### Mathematics

If, after completing the required New Jersey Graduation Proficiency Assessment in grade 11, students did not demonstrate proficiency by passing the mathematics component, such students may access the following pathways:

- Second Pathway: By meeting the designated cut score on a substitute competency test such as the PSAT, SAT, ACT, or ACCUPLACER; or
- Third Pathway: By submitting, through the district, a student portfolio appeal to the New Jersey Department of Education.

## COURSE SELECTION PROCESS

Student schedules are developed in the spring and summer of each year. The process includes input from students, parents, teachers, counselors and administrators. Students are expected to honor their commitments and to attend and satisfactorily complete the courses in which they enroll during counseling conferences. Any change in the student's program will require the approval of the administration.

**Requests for changes made after the building of the master schedule will be considered for educationally sound reasons according to the guidelines listed below. Students will be denied the request for change when assignment would exceed the maximum class size policy or when student enrollment drops below the Board of Education minimum. The Board of Education reserves the right to offer or not offer particular courses and/or programs depending upon enrollment and other conditions.**

Scheduling Change Procedure: During the first week of school, only those schedule changes needed to complete a schedule will be addressed. The following schedule change policy is designed to resolve conflicts or correct errors with student schedules and to promote an orderly beginning of the school year:

- Schedule corrections will be made on a priority basis for students without schedules.
- Students whose schedules show major problems (no Physical Education, no English, etc.) will be addressed next.
- If there is a need to correct an error in the schedule, e.g. a missing course, two or more courses in conflict or failure in a pre-requisite course.
- If there is a recommendation from the Child Study Team.
- If there is a recommendation from an administrator for disciplinary, attendance or instructional reasons.
- If a student is repeating a course and is assigned to the same course and teacher.



- If there is a request made by the professional staff.
- Students who request schedule changes, other than those mentioned, may see their school counselor during the second full week of school to get advice. Students also have the opportunity to contact their school counselor the last week of August.
- In exceptional cases, an appeal may be made to the Principal.

**Student-initiated schedule changes will not be considered for any of the following reasons:**

- If the course content or standards differ from student expectations or the course is not needed for graduation.
- If the student does not like a given teacher or the student has a last minute preference for some other subject.
- If the student or parent wishes the student to be with friends.
- No changes for lunch or gym periods.

***All schedule changes must be completed within 10 school days from the start of the school year. Deadline for any level course changes, e.g. Honors to a CP course, will be the last day of the first marking period. All second semester course selections or changes must be completed during the first 10 school days. All schedule changes will be at the discretion of the administration.***

**Level Changes** - Parents may waive their son/daughter into courses even though the subject area teacher and/or counselor are not in agreement. Students waived into a course must remain in that course for the entire first marking period and maintain a grade average of B+. Note: If the desired lower level course is filled, the student must remain in the waived class for the entire year. Changes from one level of a course to another level of the same course must be completed within 10 school days from the start of the school year, provided a waiver has not been submitted and signed by the parent.

**Course Drop/Add Policy** - The selection of courses by students is one of the most important events in a student's high school career. It is not only important because it affects career goals but it also determines staffing and how financial resources are allocated. For these reasons, the dropping or adding of courses in a student's schedule will be considered only under extenuating circumstances. It is strongly recommended that students and parents thoroughly review required course offerings, elective course offerings, pre- and co-requisites before finalizing course selections.



## DEFINITION OF COURSE LEVELS

**Advanced Placement Courses** - are currently offered in Science, English, Social Studies, World Languages, Psychology, Mathematics and Computer Science, with the Advanced Placement Test given in May of each academic year. These courses follow criteria of the Advanced Placement Program. Additional AP courses are offered online and are paid for by the Carteret Board of Education. Students of very high academic ability are recommended by teachers and/or counselors, as well as through screening assessments. Students in the accelerated program typically make a natural progression to the Advanced Placement offerings. Students who successfully complete the program may be eligible for college credit or advanced placement at the college level. It is recommended that students take no more than two or three AP courses at the same time. Any waiver of any of the recommendations must be approved by the principal. It is required that students who enroll take the Advanced Placement Test.

**Honors Students** scheduled into accelerated courses are consistently high achievers. Courses are fast-paced and more academically challenging than regular course offerings.

**General Education** - All core subject areas are college preparatory and standard high school courses.

**Electives** - Elective courses introduce students to the fundamental principles, concepts, vocabulary and methods essential for the acquisition of knowledge and skills basic to the field of study. These courses prepare students to communicate effectively using written and oral or signed communication skills.



## General Information

**Scoir** - Carteret High School utilizes the college and career exploration and application platform of Scoir for our students and families to foster their post-secondary planning.

**Attendance** - The Board of Education, in compliance with the State, has an attendance policy which requires regular attendance in order for a student to be awarded full credit for any course. Failure to attend class regularly may result in an automatic grade of F. Students who exceed the number of unexcused absences outlined below will result in attendance failure for that course. Carteret High School's policy is described in detail in the Student Handbook. Excessive unexcused absence is defined as:

- 20 cumulative unexcused absences per full-year course
- 10 cumulative unexcused absences per semester course
- 5 cumulative unexcused absences per quarter course
- 4 tardies is equivalent to one absence



## GRADING SYSTEM

**Grade Numerical Equivalent** (Achievement is indicated by letter grades)

The following grading scales and indicators shall be used:

A+ = 96-100	C+ = 76-79
A = 90-95	C = 70-75
B+ = 86-89	D = 65-69
B = 80-85	F = 0-64*

### Grade Point Average

A Grade Point Average (or GPA) is a measure of academic achievement and is based on the final grades a student earns at the end of each school year. The GPA is cumulative, meaning it updates annually. The updated GPA is made available to students annually. All students should strive to earn a 3.0 (B average) or higher.

### How to Calculate the GPA in Three Steps:

1. Determine the “Quality Points” for each individual course by multiplying the GPA Points/Weight of the grade earned by the Number of Credits assigned to that course.
2. Add up all “Quality Points” earned and all “Credits Earned” (or “anticipated credits to be earned” if using Marking Periods grades to obtain an early GPA estimate).
3. Divide the “Total Quality Points” by the “Total Credits Earned”.

***Please Note: A withdrawal from a course will impact the student’s cumulative GPA.***

GPA Weight Table				
Grade	CP	Honors	AP	Numerical Value
A+	4.3	4.8	5.3	96-100
A	4.0	4.5	5.0	90-95
B+	3.3	3.8	4.3	86-89
B	3.0	3.5	4.0	80-85
C+	2.3	2.8	3.3	76-79
C	2.0	2.5	3.0	70-75
D	1.0	1.5	2.0	65-69
F	0	0	0	0-64



### **Honor Roll Recognition**

Each marking period students will be recognized for their academic achievement. Students receiving all A's are placed on the Principal's List and those receiving all A's and B's are placed on the Honor Roll.

### **Class Rank**

The students' weighted GPAs are calculated for the senior class. **The class rank is released in late September of each school year.**

## **EXTRA- & CO-CURRICULAR ACTIVITIES**

### ***Interscholastic Sports***

<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
Football	Basketball (Boys)	Baseball
Cheerleading	Basketball (Girls)	Softball
Tennis (Girls)	Bowling (Boys)	Track and Field (Boys)
Soccer (Boys)	Bowling (Girls)	Track and Field (Girls)
Soccer (Girls)	Wrestling	
Volleyball (Girls)	Competition Cheerleading	

### ***Eligibility Requirements for Carteret High School Athletics:***

First Semester - To be eligible for athletic competition, a student must have passed 30 credits during the immediate preceding school year, including summer school, to be eligible for the first semester (Fall and Winter).

*\*Note: The first semester rule applies to incoming freshmen as they cannot fail more than one subject.*

### **Second Semester - As of January 31**

All students must be passing 15 credits.



***Co-Curricular Clubs & Activities \****

National Computer Science Honor Society/Peer Tutoring/Medical Minties/Band/Chorus/Freshman Class/Sophomore Class/Junior Class/Senior Class/Student Council/National Honor Society/National Art Honor Society/Drama Club/Varsity Vocals/Concert Choir/Bella Voce-inclusivity/SADD/Filipino Club/Anne Scott News/Debate Club/DECA/Yearbook/Anime Club/Gaming Club/Pathways/Ladies of Royalty/Prevention Players/PALS/GSA/Rampage Step Squad/CHS STEM Team/Junk Kouture/Incorruptible.US/Letters for Rose/Girl Talk/Braiding Beauty/L.A.S.O./CHS Mathematics Olympiad/Future Teachers of America/Reflections Literary Magazine/

***\* pending Board of Education approval and funding***

**CARTERET HIGH SCHOOL ALMA MATER**

In every heart there is a love Splendid and true, wrought from above Sing, every son and daughter sing! Loyal to you we'll ever be; To you we raise this melody; Let every voice in glory ring. All hail, all hail your glorious name, Dear Carteret High, we love you! Courage to you, that you may bring Courage to us in everything. Hail to your glorious name!

By Milton Rabinowitz 1937 Arthur Stupar 1937

Traditions, Colors & Alma Mater "Rambler's" is the school nickname. The colors of Carteret High School are royal blue and white.



## **PHYSICAL EDUCATION / HEALTH**

### **Comprehensive Health and PE 9**

#### **Grade 9**

#### **5 Credits**

This course is designed to increase attention to student growth and maturity through a series of physical activities designed to enhance self-esteem and to encourage participation in physical activity. A variety of assessments of physical fitness will take place through research, alternative assessments and pre- and post-test modulations. Students will develop accountability for measuring and evaluating their own fitness levels. Students will engage in readings and hands-on activities which support the physical, social, emotional and intellectual dimensions of wellness. An understanding of what factors in life add to the general concept of wellness and can detract from it is explored.

### **Comprehensive Health and PE 10**

#### **Grade 10**

#### **5 Credits**

This course is designed to allow students to display growth and maturity through a series of new and exciting opportunities to express oneself in physical activity. Assessment of physical fitness will take place in pre- and post- test modulations. Students will develop accountability for measuring and evaluating their own fitness levels. Driver Education offers students the opportunity to discuss good driving attitudes, which are essential for safe driving. The theory portion of driver education consists of 30 hours of classroom instruction. Some of the topics discussed in class are: New Jersey permits, insurance issues, the New Jersey school bus law, the New Jersey point system, defensive driving, rules of the road, seatbelt use, alcohol, drugs and driving, attitudes and consideration of other drivers. There will also be a study of practical aspects of driving, such as parking and local traffic trouble spots. As a courtesy to our students, the New Jersey State Driving Test will be given upon completion of the driver's manual portion of the curriculum.

### **Comprehensive Health and PE 11**

#### **Grade 11**

#### **5 Credits**

This course fosters student growth and maturity through a series of opportunities to express oneself in a variety of physical activities. Assessment of physical fitness will take place in pre- and post-test modulations. Students will develop accountability for measuring and evaluating their own fitness levels using a variety of technologies. This course aims to increase students' knowledge about the physical, social, emotional and intellectual dimensions of wellness. Careers in health and physical wellness are integrated into the course. In addition, each public high school in New Jersey is required to ensure that information about the benefits of organ and tissue donation is included in the Core Curriculum Content Standards for Comprehensive Health and Physical Education for grades 9-12.



## **Comprehensive Health and PE 12**

### **Grade 12**

### **5 Credits**

This course offers increasingly challenging opportunities to express oneself in physical activity. In this, the final year of high school, the focus is on providing individual activities to maintain lifelong positive health and fitness practices. Assessment of physical fitness will take place in pre- and post-test modulations. Students will develop accountability for measuring and evaluating their own fitness levels using a variety of technologies. This course engages students in the study of human sexuality and the importance of relationships and responsibilities related to human sexuality. It is based on current trends in scientifically-based research and physical and mental health knowledge. Through class participation and research, students explore the way the human reproductive system works, sexual orientation, pregnancy and childbirth, methods of birth control, sexual hygiene and disease control, particularly the AIDS virus. Emphasis is upon classroom discussion, research and skill practice in critical thinking and problem solving. The course incorporates the use of technology and encourages students to research and use valid and reliable sources of health information.



## ENGLISH



**ENGLISH 1**  
**HONORS ENGLISH 1**  
**FOUNDATIONS OF ENGLISH 1**

**Grade 9**  
**5 Credits**

This course explores themes of accountability, global citizenship, overcoming adversity, virtues and social justice, and home and family. This curriculum will review the fundamentals of effective writing through structured written compositions. Other course material explores classical and modern literature across various genres with an emphasis on diverse works. The course includes a variety of written and oral assignments, literature analysis, and research projects using primary and secondary sources. Students will study literary themes, expand vocabulary, and enhance their analytical skills, including identifying authors' intent and central messages.



**ENGLISH 2**  
**HONORS ENGLISH 2**  
**FOUNDATIONS OF ENGLISH 2**

**Grade 10**  
**5 Credits**

This course explores themes of language and censorship, the fight for equality, social upheavals, and social change and revolution. Building on skills from the previous year, this curriculum will build on the fundamentals and refine students' skills of effective writing through structured written compositions. Students will explore authorial intent, central themes, and intended messages, building analytical and critical thinking skills. A comprehensive research paper is required using primary and secondary sources, supported by Google Suite tools, and there is an ongoing emphasis on study skills to support academic success.



**ENGLISH 3**  
**HONORS ENGLISH 3**  
**FOUNDATIONS OF ENGLISH 3**  
**Grade 11**  
**5 Credits**

This course explores themes like quests and heroes, anti-heroes, identity, and love and loss. Building on what they learned last year, they will practice different types of writing, focusing on clear explanations and style. The course includes a mix of writing and speaking assignments, analyzing literature, and research projects using primary and secondary sources, with support from Google Suite tools. Students will study important themes in stories, learn new vocabulary, and improve their skills in understanding what authors mean and the main ideas of texts. Writing assignments help students express themselves and improve their language skills, and they will also complete a research paper. The curriculum covers both fiction and non-fiction and helps prepare students for the NJGPA, PSAT/SAT, and other standardized tests.



**ENGLISH 4**  
**HONORS ENGLISH 4**  
**FOUNDATIONS OF ENGLISH 4**  
**Grade 12**  
**5 Credits**

This course explores four main themes: *Fated for Extinction*, *Is Justice Equitable?*, *Outliers*, and *Mastering Life's Choices*. Building on skills from the previous year, students master skills in reading, writing, speaking, and listening, with an emphasis on understanding global cultures and their modern impacts. The course includes a variety of written and oral assignments, literature analysis, and research projects using primary and secondary sources, supported by Google Suite tools. Students will study literary themes, expand vocabulary, and enhance their analytical skills, including identifying authors' intent and central messages. Writing assignments build expression and language skills, and a research paper is required.



## **AP LITERATURE & COMPOSITION**

### **Grade 12**

### **5 Credits**

This course is a college-level course that integrates analytical reading, thinking, and writing. Students in AP English Literature and Composition read, discuss, analyze, and evaluate fictional literature from various genres and historical periods. Throughout the course of study, students develop the close reading and writing skills that are necessary in college and in a competitive global market. This course implements the approach to literary study developed by the College Board's AP program. This approach involves students in "learning how to make careful observations of textual detail, establish connections among their observations, and draw from those connections a series of inferences leading to an interpretive conclusion about a piece of writing's meaning and value," (The College Board, English :Literature and Composition Course Description) Unlike other courses, which usually cover the history or development of a specific nation's literary tradition, AP English Literature and Composition is neither chronologically organized nor confined to texts from a particular geographic provenance; rather literary texts are selected to represent a variety of cultures. The literary texts selected in this curriculum reflect the richness of cultural diversity in our public schools. (High intensity) Students who successfully complete the program may be eligible for college credit or advanced placement at the college level. **Students who take this course are required to take the Advanced Placement Literature exam when it is given in the spring.**



## **AP ENGLISH LANGUAGE AND COMPOSITION**

### **Grade 11 - 12**

### **5 Credits**

This course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages and drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. Summer work and AP exam required. Students who successfully complete the program may be eligible for college credit or advanced placement at the college level. **Students who take this course are required to take the Advanced Placement English Language exam when it is given in the spring.**



## ENGLISH ELECTIVES



### MYTHOLOGY

**Grades 10 - 12**

**2.5 credits**

This course explores myths from various cultures, including Greek, Roman, Norse, and Egyptian traditions. They will analyze themes, characters, and moral lessons while discussing the role of mythology in ancient societies and its influence on modern literature and culture. Through creative projects and literary analysis, students will enhance their critical thinking skills and gain a deeper understanding of the significance of mythology in shaping human experiences.



### WOMEN'S LITERATURE

**Grades 10-12**

**2.5 credits**

This course promotes analysis of gender roles, stereotypes, and expectations through the exploration of literature, both classic and contemporary. Students will explore various works of literature to compare and contrast society's evolving understanding of gender and how it has been applied to civilizations throughout history.



### CREATIVE WRITING

**Grades 10 - 12**

**2.5 Credits**

This course will explore two dynamic genres—poetry and fiction—using creative writing as a way to develop their imaginative skills and express their unique perspectives. Emphasizing the generation of diverse writing materials, students will engage with various techniques for reading and discussing the works of others. Throughout the course, participants will refine their writing abilities and work towards completing a polished piece in each genre, fostering both creativity and critical thinking..

### TOMORROW'S TEACHERS

**Grades 11 -12**

**5 credits**

**Prerequisite: Successful completion of core classes**

This course is for high school students interested in a teaching career. This program helps students understand what it's like to be a teacher, the challenges in schools, and important issues in education. Throughout the year, students will explore three main themes: Experiencing Learning, Experiencing the Profession, and Experiencing the Classroom. The course includes a six-week field experience where students will visit different schools and work alongside teachers to gain real-life experience. At the end, students will create a teaching portfolio. This Honors-level course is open to Juniors and Seniors and offers the chance to earn three college credits through Kean University, with a \$250 fee for optional enrollment.



## **Power of Speech**

**Grades 10-12**

**2.5 credits**

This course is designed to have students improve their verbal and nonverbal skills to develop a better understanding of effective verbal and nonverbal communication. This course is designed to improve students' ability to accurately convey their thoughts and those of others through written and verbal communication. This class provides instruction and experience in the preparation and delivery of speeches within a public setting. The course will emphasize research, preparation, delivery, and evaluation of informative, persuasive, and special occasion speaking. By the end of the course students will understand and practice all stages of the speech-making process and will be equipped with the tools to communicate with confidence, clarity, and purpose in a variety of settings.

## **Everyday English**

**Grade 12**

**No Credit**

Everyday English is a senior-level course designed for students who have not yet met the state's English Language Arts graduation requirements for assessments. This course focuses on essential reading, writing, and critical thinking skills needed for success on state assessments. Students will engage in targeted test-taking strategies, structured writing practice, and portfolio-based tasks that align with state standards. Through personalized instruction and skill-building activities, students will develop the confidence and proficiency required to fulfill graduation requirements and prepare for future academic or career opportunities.



## MULTILINGUAL LEARNERS

### **ESL Newcomers Grades 9 - 12**

**10 Credits**

**Prerequisite: Placement based on ACCESS**

The English as a Second Language (ESL) program places multilingual learners in appropriate levels based on their performance on the ACCESS assessment. This course offers advanced ESL students an opportunity to strengthen their communication skills to further develop proficiency across all areas of language arts.

Additionally, high-intensity academic support is provided to assist students in adapting to their mainstream subjects.

### **ESL 1**

**Grades 9 - 12**

**10 Credits**

**Prerequisite: Placement based on ACCESS**

The English as a Second Language (ESL) program places multilingual learners in appropriate levels based on their performance on the ACCESS assessment. This course offers advanced ESL students an opportunity to strengthen their communication skills to further develop proficiency across all areas of language arts.

Additionally, high-intensity academic support is provided to assist students in adapting to their mainstream subjects.

### **ESL 2**

**Grades 10 - 12**

**10 Credits**

**Prerequisite: Placement based on ACCESS**

The English as a Second Language (ESL) program places multilingual learners in appropriate levels based on their performance on the ACCESS assessment. This course offers advanced ESL students an opportunity to strengthen their communication skills to further develop proficiency across all areas of language arts.

Additionally, high-intensity academic support is provided to assist students in adapting to their mainstream subjects.

### **ESL 3**

**Grades 9 - 12**

**10 Credits**

**Prerequisite: Placement based on ACCESS**

The English as a Second Language (ESL) program places multilingual learners in appropriate levels based on their performance on the ACCESS assessment. This course offers advanced ESL students an opportunity to strengthen their communication skills to further develop proficiency across all areas of language arts.

Additionally, high-intensity academic support is provided to assist students in adapting to their mainstream subjects.



### **ESL 3 Advanced**

**Grades 9 - 12**

**5 Credits**

**Prerequisite: Placement based on ACCESS**

The English as a Second Language (ESL) program places multilingual learners in appropriate levels based on their performance on the ACCESS assessment. This course offers advanced ESL students an opportunity to strengthen their communication skills to further develop proficiency across all areas of language arts. Additionally, high-intensity academic support is provided to assist students in adapting to their mainstream subjects.

### **ESL 4**

**Grades 10 - 12**

**5 Credits**

**Prerequisite: Placement based on ACCESS**

The English as a Second Language (ESL) program places multilingual learners in appropriate levels based on their performance on the ACCESS assessment. This course offers advanced ESL students an opportunity to strengthen their communication skills to further develop proficiency across all areas of language arts. Additionally, high-intensity academic support is provided to assist students in adapting to their mainstream subjects.

### **ESL 4 Advanced**

**Grades 10 - 12**

**5 Credits**

**Prerequisite: Placement based on ACCESS**

The English as a Second Language (ESL) program places multilingual learners in appropriate levels based on their performance on the ACCESS assessment. This course offers advanced ESL students an opportunity to strengthen their communication skills to further develop proficiency across all areas of language arts. Additionally, high-intensity academic support is provided to assist students in adapting to their mainstream subjects.



RAMBLERS RISE

## SOCIAL STUDIES



### **WORLD HISTORY HONORS WORLD HISTORY FOUNDATIONS OF WORLD HISTORY**

#### **Grade 9 5 Credits**

This course chronicles the significant events and issues of civilization from the Age of Global Encounters (1400-1750) to the Modern World Era (1945-present). This course links the past and the present through the exploration of key historical themes. Students employ prior learning to enhance in-depth discussion of past civilizations and their crucial role in the development of our own diverse society and culture. Writing, speaking and listening skills, and interpretation of written documents are integrated through class discussions and oral presentations.



### **ESL WORLD HISTORY**

#### **Grade 9 5 Credits**

This course chronicles the significant events and issues of civilization from the Age of Global Encounters (1400-1750) to the Modern World Era (1945-present). This course links the past and the present through the exploration of key historical themes. Students employ prior learning to enhance in-depth discussion of past civilizations and their crucial role in the development of our own diverse society and culture. Writing, speaking and listening skills, and interpretation of written documents are integrated through class discussions and oral presentations. This course places a special emphasis on Multiple Language Learning (MLs), ensuring that learners not only grasp the content material but also acquire the confidence to use English effectively in diverse contexts. ESL components are seamlessly woven into each module, offering a sheltered learning approach to language acquisition.

### **AP WORLD HISTORY**

#### **Grades 11 - 12 5 Credits**

#### **Prerequisite: Successful completion of U.S. History II**

This AP course is designed to teach students to apply historical thinking skills including the ability to craft arguments from evidence; describe, analyze and evaluate events from a chronological perspective; compare and contextualize historical developments; and analyze evidence, reasoning and context to construct and understand historical interpretations. The course is a survey of human history from the Paleolithic Age through Modern Times. The AP syllabus allows students multiple opportunities to evaluate numerous documents and resources from thousands of cultures, from every corner of the world. Students who successfully complete the program may be eligible for college credit or advanced placement at the college level. **Students who take this course are required to take the Advanced Placement World History exam when it is given in the spring.**



**U.S. HISTORY I  
HONORS U.S. HISTORY I  
FOUNDATIONS OF US HISTORY I  
Grade 10  
5 Credits**

This course chronicles the birth of the United States beginning with an analysis of the founding of the first settlements and colonies by European powers in North America. The course continues to examine the advancement of the United States through the 19th century as she develops and strengthens a national identity as well as a role in world affairs. The objectives and competencies include history, geography, economics, civics, science and the arts from a diverse perspective, enabling students to grasp the interrelationship between and among them.



**ESL U.S. HISTORY I  
Grade 10  
5 Credits**

This course chronicles the birth of the United States beginning with an analysis of the founding of the first settlements and colonies by European powers in North America. The course continues to examine the advancement of the United States through the 19th century as she develops and strengthens a national identity as well as a role in world affairs. The objectives and competencies include history, geography, economics, civics, science and the arts from a diverse perspective, enabling students to grasp the interrelationship between and among them. This course places a special emphasis on Multiple Language Learning (MLs), ensuring that learners not only grasp the content material but also acquire the confidence to use English effectively in diverse contexts. ESL components are seamlessly woven into each module, offering a sheltered learning approach to language acquisition.



**U.S. HISTORY II  
U.S. HISTORY II HONORS  
FOUNDATIONS OF US HISTORY II  
Grade 11  
5 Credits**

This course chronicles the development of United States history and culture from the Gilded Age to the present. The course builds upon prior learning from U.S. History I and examines the United States struggle to understand its new role in the ever-changing world both domestically and abroad. Students will analyze primary sources, engage in discussions, and connect historical events to contemporary issues. Through projects and assignments, they will develop critical thinking and research skills, gaining a deeper understanding of America's evolving identity and role on the global stage.



## **ESL U.S. HISTORY II**

**Grade 11**

**5 Credits**

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

This course chronicles the development of United States history and culture from the Gilded Age to the present. The course builds upon prior learning from U.S. History I and examines the United States struggle to understand its new role in the ever-changing world both domestically and abroad. Students will analyze primary sources, engage in discussions, and connect historical events to contemporary issues. Through projects and assignments, they will develop critical thinking and research skills, gaining a deeper understanding of America's evolving identity and role on the global stage. This course places a special emphasis on Multiple Language Learning (MLs), ensuring that learners not only grasp the content material but also acquire the confidence to use English effectively in diverse contexts. ESL components are seamlessly woven into each module, offering a sheltered learning approach to language acquisition.



## **AP US HISTORY**

**Grade 11-12**

**5 Credits**

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

This AP course is designed to teach students to apply and use critical-thinking, decision-making and historical problem-solving skills including the ability to craft arguments to formulate conclusive opinions.

Students learn how to evaluate primary and secondary source materials, as well as how to weigh the evidence and interpretations presented in historical scholarship. Students will describe, analyze and evaluate geography and interdisciplinary connections; relate history to events from a chronological perspective. The use of reasoning and context to construct and understand historical variety of technologies is integrated throughout the curriculum. Students who successfully complete the program may be eligible for college credit or advanced placement at the college level. **Students who take this course are required to take the Advanced Placement History exam when it is given in the spring.**



## **INTRO TO PSYCHOLOGY**

**Grades 10 - 12**

**2.5 Credits**

This course provides students with in-depth knowledge of psychology through the study of its history, methods, the brain, human development, and sociocultural influences. The student will have the opportunity to enroll in the Intro course and continue with Psychology (part 2) the following semester.

## **SPORTS PSYCHOLOGY**

**Grades 10 - 12**

**2.5 Credits**

This course will focus on the study of how psychology impacts athletic performance. Topics included in this course include competition and cooperation, health and well-being, motivation, stress/anxiety, and performance.



## **CHILD PSYCHOLOGY**

**Grades 10 - 12**

**2.5 Credits**

This course will focus on the study of how children develop physically, socially, mentally, and emotionally. Topics will include heredity, theories of development (Freud, Erikson, Kohlberg, and Piaget), attachment, parenting styles, learning, and language.



## **AP PSYCHOLOGY**

**Grades 11 - 12**

**5 Credits**

This AP course discusses in-depth information about personal and others' behavior. This series will prepare students to pass the AP Psychology Exam for college credit; it is recommended that students take both courses of the series before taking the exam. It is also recommended that students take an introductory psychology course before enrolling in this series. This is the first course in a two-part Advanced Placement Psychology series (AP PSY 059 and AP PSY 060). Students who successfully complete the program may be eligible for college credit or advanced placement at the college level. **Students who take this course are required to take the Advanced Placement Psychology exam when it is given in the spring.**



## **AFRICAN AMERICAN HISTORY**

**Grades 10 - 12**

**2.5 Credits**

This course includes lectures, required readings and discussions, students will acquire a fuller understanding about the historical development and social construction of Black America: what African Americans have thought about themselves and the larger society, how they have evolved as a community with a distinct culture from slavery to the twenty first century, and where they may be going as a people.



## **AP AFRICAN AMERICAN STUDIES**

**Grades 10 - 12**

**2.5 Credits**

This course is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Given the interdisciplinary character of African American Studies, students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual, and data analysis skills. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African diaspora. **Students who take this course are required to take the Advanced Placement World History exam when it is given in the spring.**



## **COMICS + AMERICAN HISTORY**

**Grades 10 - 12**

**2.5 Credits**

This course covers the evolution of American superheroes and social history. The main goal of the course is to increase the reading and comprehension skills of all students who take the course. Over the last 150 years' comic books have been a window to American culture. They reflect language, social issues of the day and problems Americans faced in each major era of American History. Social issues to be covered in the course include Nuclear Power Controversy, Civil Rights Movement, and Women's Rights, Alcoholism, Drug Addiction, LGBT issues, Unemployment, The Cold War, Nazism, Counter Culture Movement of the 60s and Beatniks 50's.



## **HOLOCAUST/GENOCIDE WESTERN WORLD**

**Grades 10 - 12**

**2.5 Credits**

This course is based on the New Jersey State Holocaust Commission Curriculum. The course is an intense survey of inter-war Germany, and the conditions that allowed the Nazis to come to power. The course covers the Nazi regime from its beginning through the end of the war. The elective is broken down into 9 units, which allow the student to gain insight to the many facets of the Holocaust as a crime against humanity. Students will analyze documents, read survivor accounts, conduct internet based activities, and view various films and documentaries on the subject.



## **LATIN AMERICAN CULTURES**

**Grades 10 - 12**

**2.5 Credits**

This course provides an interdisciplinary introduction to contemporary Latin America, drawing on films, literature, popular press accounts, and scholarly research. Topics include economic development, ethnic and racial identity, religion, revolution, democracy, transitional justice, and the rule of law. Examples draw on a range of countries in the region, especially Mexico, Chile, and Brazil. Includes a heavy oral participation component, with regular breakout groups, formal class presentations on pressing social issues (such as criminal justice and land tenure), and a structured class debate.



## **AP HUMAN GEOGRAPHY**

**Grades 10 - 12**

**5 Credits**

This AP course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. The curriculum reflects the goals of the National Geography Standards. Students who successfully complete the program may be eligible for college credit or advanced placement at the college level. **Students who take this course are required to take the Advanced Placement Human Geography exam when it is given in the spring.**

## **New Jersey Real Estate**

**Grades 10-12**

**2.5 Credits**

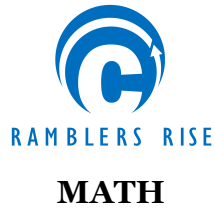
This course exposes students to a variety of business concepts and development and investment best practices. Core areas of study include real estate investment and appraisal, and applicable laws and urban development concepts. Programs emphasize data-driven decision-making and analysis. Students will understand the positive correlation between location, and value, how real estate can establish generational wealth, the difference between primary residences and investment properties, and the functions of commercial and industrial real estate. The course will focus on NJ real estate law and geography.

## **Supply Chain Management I**

**Grades 10-12**

**5 Credits**

This course engages students in solving contextual problems related to the concepts of supply chains, what house location, contingency planning, insourcing and outsourcing, and expanding existing supply chains. The concept forms the basis of global logistics and supply chain management and helps students understand how professionals examine options to maximize the use of resources across distribution networks.



**ALGEBRA I  
HONORS ALGEBRA I  
FOUNDATIONS OF ALGEBRA**

**Grade 9  
5 credits**

This course builds upon students' foundational math skills, beginning with variables and mathematical operations before advancing to various methods of solving equation systems. Students investigate the properties of real numbers while mastering graphing techniques on coordinate planes, analyzing linear relationships through concepts like slope and equations of lines. The curriculum covers linear equations and inequalities, similar figures, and polynomial operations. Advanced topics include probability theory, exponential rules, and algebraic problem-solving strategies.



**ESL ALGEBRA I**

**Grade 9  
5 credits**

This course builds upon students' foundational math skills, beginning with variables and mathematical operations before advancing to various methods of solving equation systems. Students investigate the properties of real numbers while mastering graphing techniques on coordinate planes, analyzing linear relationships through concepts like slope and equations of lines. The curriculum covers linear equations and inequalities, similar figures, and polynomial operations. Advanced topics include probability theory, exponential rules, and algebraic problem-solving strategies. This course places a special emphasis on Multiple Language Learning (MLs), ensuring that learners not only grasp the content material but also acquire the confidence to use English effectively in diverse contexts. ESL components are seamlessly woven into each module, offering a sheltered learning approach to language acquisition. A scientific calculator is required.



**ALGEBRA 1A**

**Grade 9  
5 credits**

***By Referral Only***

This course represents the first year of a two-year Algebra program, introducing essential concepts at a carefully planned pace. The extended format allows teachers to provide personalized attention and adapt instruction to match each student's learning style. By spreading traditional Algebra 1 content across two years, students have more time to master fundamental concepts before moving to more complex topics. Students will complete the course sequence by taking the NJSLA Algebra assessment during their second year (Algebra 1B).



## **ALGEBRA 1B**

**Grade 10**

**5 credits**

**Prerequisite: Algebra 1A**

This course completes the second year of a two-year Algebra program, building upon concepts learned in Algebra 1A. The extended two-year format allows teachers to provide personalized instruction and adapt teaching methods to fit each student's individual needs. Together with Algebra 1A, this course covers all essential Algebra 1 concepts at a pace that ensures thorough understanding. Students will take the NJSLA Algebra assessment during this second year to demonstrate their mastery of Algebra concepts.



## **GEOMETRY**

**GEOMETRY HONORS**

**FOUNDATIONS OF GEOMETRY**

**Grades 9 - 11**

**5 credits**

**Prerequisite: Algebra I**

This course introduces students to precise mathematical vocabulary, including essential definitions, theorems, and postulates, which students learn to apply while solving geometric problems. The curriculum explores various geometric concepts including different types of geometry, logical statements, and relationships between shapes such as congruence, similarity, parallelism, and perpendicularity. Students learn graphing techniques and examine geometric figures including angles, quadrilaterals, triangles, and other polygons. The course concludes with an analysis of circles and three-dimensional objects.



## **ESL GEOMETRY**

**Grades 9 - 11**

**5 credits**

**Prerequisite: Algebra I**

This course introduces students to precise mathematical vocabulary, including essential definitions, theorems, and postulates, which students learn to apply while solving geometric problems. The curriculum explores various geometric concepts including different types of geometry, logical statements, and relationships between shapes such as congruence, similarity, parallelism, and perpendicularity. Students learn graphing techniques and examine geometric figures including angles, quadrilaterals, triangles, and other polygons. The course concludes with an analysis of circles and three-dimensional objects. This course places a special emphasis on Multiple Language Learning (MLs), ensuring that learners not only grasp the content material but also acquire the confidence to use English effectively in diverse contexts. ESL components are seamlessly woven into each module, offering a sheltered learning approach to language acquisition. A scientific calculator is required.



**ALGEBRA II**  
**ALGEBRA II HONORS**  
**Grades 9 - 12**  
**5 credits**

**Prerequisite: Algebra I and Geometry**

This course, designed for college-bound students who have completed Geometry, expands on core algebraic concepts while introducing sophisticated mathematical ideas. Building on the foundation of Algebra I, students explore the behavior of functions, including their domains and ranges, and investigate how different variables relate to each other. The curriculum advances into complex topics such as systems of equations, matrix operations, inverse functions, logarithmic relationships, quadratic equations, and polynomial functions, preparing students for higher-level mathematics.



**ESL ALGEBRA II**  
**Grades 9 - 12**  
**5 credits**

**Prerequisite: Algebra I and Geometry**

This course, designed for college-bound students who have completed Geometry, expands on core algebraic concepts while introducing sophisticated mathematical ideas. Building on the foundation of Algebra I, students explore the behavior of functions, including their domains and ranges, and investigate how different variables relate to each other. The curriculum advances into complex topics such as systems of equations, matrix operations, inverse functions, logarithmic relationships, quadratic equations, and polynomial functions, preparing students for higher-level mathematics. This course places a special emphasis on Multiple Language Learning (MLs), ensuring that learners not only grasp the content material but also acquire the confidence to use English effectively in diverse contexts. ESL components are seamlessly woven into each module, offering a sheltered learning approach to language acquisition.



**PRE-CALCULUS**  
**Grades 10 - 12**  
**5 credits**

**Prerequisite: Algebra II**

This course explores advanced mathematical concepts including different types of functions, how they behave, and how they can be transformed, with special focus on trigonometry and conic sections. Students analyze functions by examining their domains, ranges, and graphs, developing a deep understanding of how these elements work together. Students use analytical thinking to investigate problems and draw mathematical conclusions.



## **PRE-CALCULUS HONORS**

**Grades 10 - 12**

**5 credits**

**Prerequisite: Algebra II**

This course explores advanced mathematical concepts including different types of functions, how they behave, and how they can be transformed, with special focus on trigonometry and conic sections. Students analyze functions by examining their domains, ranges, and graphs, developing a deep understanding of how these elements work together. Students use analytical thinking to investigate problems and draw mathematical conclusions.



## **TRIGONOMETRY**

**Grades 10 - 12**

**2.5 credits**

This course focuses on having students use the relationships between angles and sides of triangles to calculate distances and measurements. This mathematical field has practical applications across many careers, particularly in engineering, physics, construction, and design projects. The course prepares students both for hands-on careers requiring field measurements and for college programs in engineering, kinesiology, surveying, and physical sciences. Students should have a strong foundation in intermediate algebra before taking this course.



## **CALCULUS HONORS**

**Grades 11 - 12**

**5 credits**

**Prerequisite: Pre-Calculus Honors or Algebra 2/Trigonometry**

This course focuses on three key concepts: limits, derivatives (which measure rates of change), and antiderivatives. Students explore advanced mathematical topics including graphing with limits, differentiation techniques, exponential and logarithmic functions, integration methods, and volume calculations. The course emphasizes practical applications by connecting these mathematical concepts to real-world situations. A strong foundation in Pre-Calculus is essential for success in this course.



## **ADVANCED ALGEBRA WITH FINANCIAL APPLICATIONS FOUNDATIONS OF FINANCIAL ALGEBRA (ADVANCED ALGEBRA WITH FINANCIAL APPLICATIONS)**

**Grades 11 - 12**

**5 credits**

**Prerequisite: Algebra 1 and Geometry**

This course combines advanced mathematics with real-world financial skills to help students make informed money decisions. Students apply concepts from algebra, pre-calculus, probability, statistics, calculus, and geometry to understand and solve everyday financial challenges. The course explores practical topics such as investment strategies, credit management, banking services, car insurance, home mortgages, career planning, income tax preparation, personal budgeting, and retirement planning, all through a mathematical lens. Using modern tools like spreadsheets and graphing calculators, students complete field projects that connect classroom learning to real financial situations.



## **AP CALCULUS AB**

**Grades 11 - 12**

**5 credits**

**Prerequisite: Pre-Calculus Honors or Algebra 2 Honors & Trigonometry**

This advanced Calculus course focuses on three essential concepts: limits, derivatives, and integrals, leading to the Fundamental Theorem of Calculus. Students begin by mastering limits, which serve as the foundation for understanding more complex mathematical ideas. The course builds toward helping students comprehend the Fundamental Theorem of Calculus, which connects all major concepts and is central to advanced mathematics. Upon successful completion of the course and AP exam, students may earn college credit or qualify for advanced placement in college-level mathematics. **Students who take this course are required to take the Advanced Placement AP Calculus AB exam when it is given in the spring.**



## **AP CALCULUS BC**

**Grade 12**

**5 credits**

**Prerequisite: Honors Calculus or AP Calculus AB**

This course builds upon AP Calculus AB by exploring limits, derivatives, integrals, and the Fundamental Theorem of Calculus in greater depth, while adding new concepts of sequences and series. Students learn sophisticated mathematical techniques including new ways to integrate, solve differential equations, and work with parametric, polar, and vector functions. The course provides a deeper understanding of calculus concepts than AP Calculus AB, preparing students for higher-level mathematics. Upon successful completion of the course and AP exam, students may earn college credit or qualify for advanced placement in college-level mathematics. **Students who take this course are required to take the Advanced Placement AP Calculus BC exam when it is given in the spring.**



## **AP STATISTICS**

**Grades 11-12**

**5 credits**

**Prerequisite: Pre-calculus or Algebra 2/Trigonometry**

This course follows The College Board's curriculum and matches the rigor of a first-semester university Statistics course. Students explore broad statistical concepts and methods that apply across many fields, developing skills in data analysis, probability, and statistical reasoning. Upon successful completion of the course and AP exam, students may earn college credit or qualify for advanced placement in college-level mathematics. **Students who take this course are required to take the Advanced Placement Statistics exam when it is given in the spring.**

## **College Algebra**

**Grade 12**

**5 credits**

**Prerequisite: Algebra 2**

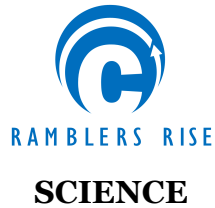
This course will cover essential algebraic concepts, including polynomial, rational, exponential, and logarithmic functions, systems of equations, and fundamental concepts of analytic geometry. By engaging in this challenging college-level coursework, students will develop critical thinking skills, enhance their problem-solving abilities, and build a robust mathematical foundation necessary for success in STEM fields, business, and other quantitative disciplines. Applications are emphasized.

## **Everyday Math**

**Grade 12**

**No Credit**

Everyday Math is a senior-level course designed for students who have not yet met the state's mathematics graduation requirements for assessments. This course focuses on essential math skills, problem-solving strategies, and test-taking techniques needed for success on state assessments. Students will engage in targeted practice, real-world applications, and portfolio-based tasks that align with state standards. Through personalized instruction and skill-building activities, students will develop the confidence and proficiency required to fulfill graduation requirements and prepare for future academic or career opportunities.



**BIOLOGY LAB  
HONORS BIOLOGY LAB  
FOUNDATIONS OF BIOLOGY LAB**

**Grade 9  
5 Credits**

This course helps students understand the complex relationships between all living things on Earth through hands-on learning experiences. Students explore life science principles through laboratory work and real-world examples that demonstrate how different forms of life are connected. The course challenges students to apply their biological knowledge to solve problems and make informed decisions about living systems. Through practical experiments and authentic learning activities, students develop a deeper understanding of life sciences and their applications in the real world.



**ESL BIOLOGY LAB**

**Grade 9  
5 Credits**

This course helps students understand the complex relationships between all living things on Earth through hands-on learning experiences. Students explore life science principles through laboratory work and real-world examples that demonstrate how different forms of life are connected. The course challenges students to apply their biological knowledge to solve problems and make informed decisions about living systems. Through practical experiments and authentic learning activities, students develop a deeper understanding of life sciences and their applications in the real world. This course places a special emphasis on Multiple Language Learning (MLs), ensuring that learners not only grasp the content material but also acquire the confidence to use English effectively in diverse contexts. ESL components are seamlessly woven into each module, offering a sheltered learning approach to language acquisition.



**AP BIOLOGY LAB**

**Grades 11 - 12  
5 Credits**

This course is designed for students who have a strong interest in science and have already demonstrated success in Biology, Chemistry, and Mathematics. Students explore advanced biological concepts through extensive laboratory work, organized class activities, and independent study projects. The challenging curriculum requires significant dedication, as students must complete college-level assignments and laboratory experiments. Upon completion of the required AP Biology exam in the spring, successful students may earn college credit or qualify for advanced placement in college-level science courses. **Students who take this course are required to take the Advanced Placement Biology exam when it is given in the spring.**



## **CHEMISTRY LAB HONORS CHEMISTRY LAB**

**Grade 10 - 12**

**5 Credits**

**Prerequisite: Biology**

This course introduces students to the essential concepts of chemistry, focusing on how atoms and molecules interact to form different substances. Students explore atomic structure, chemical reactions, energy changes, states of matter, and different types of chemical bonds and molecular groups. The course emphasizes mathematical relationships in chemistry through calculations and problem-solving. Regular laboratory experiments give students hands-on experience with chemical concepts and scientific procedures.



## **ESL CHEMISTRY LAB**

**Grade 10 - 12**

**5 Credits**

This course introduces students to the essential concepts of chemistry, focusing on how atoms and molecules interact to form different substances. Students explore atomic structure, chemical reactions, energy changes, states of matter, and different types of chemical bonds and molecular groups. The course emphasizes mathematical relationships in chemistry through calculations and problem-solving. Regular laboratory experiments give students hands-on experience with chemical concepts and scientific procedures. This course places a special emphasis on Multiple Language Learning (MLs), ensuring that learners not only grasp the content material but also acquire the confidence to use English effectively in diverse contexts. ESL components are seamlessly woven into each module, offering a sheltered learning approach to language acquisition.



## **FOUNDATIONS OF CHEMISTRY AND PHYSICS LAB**

**Grade 11-12**

**5 credits**

**Prerequisite: Foundations of Biology**

This course is designed as an interactive, 21st century course introduction to the basics of physics and chemistry. Topics include forces and motion, energy through waves, electricity and magnetism, the matter around us, chemical bonding and reactions. This course is designed to serve as a foundation for the study of the physical sciences. Students will be introduced to the scientific method, web 2.0 tools, interactive experiences, class projects, real world application through hands-on labs.



## **PRINCIPLES OF CHEMISTRY AND PHYSICS LAB**

**Grade 10 - 12**

**5 Credits**

**Prerequisite: Biology**

This course explores basic physics and chemistry concepts through interactive, modern learning methods. Students investigate forces, motion, waves, energy, electricity, magnetism, matter, and chemical reactions using hands-on experiments and digital tools. Through collaborative projects and real-world applications, students develop critical thinking skills while discovering how physical and chemical properties shape our world. The course helps students understand how science applies to their everyday lives by combining laboratory work, group projects, and various assessments that demonstrate their knowledge.



## **HONORS PHYSICS LAB**

**Grades 10 - 12**

**5 Credits**

This course helps students understand how our world and universe work, with special focus on how different scientific concepts connect to each other. The course explores modern physics topics including mechanics, electricity, magnetism, light, atomic and nuclear physics, and electronics. Students discover how these scientific principles affect human life while learning the laws that govern our physical world. Strong math and graphing skills are essential for success in this course, as students use mathematical concepts to solve physics problems and understand scientific laws.



## **AP PHYSICS LAB**

**Grades 10 - 12**

**5 Credits**

This course teaches students fundamental concepts like motion, energy, gravity, and electricity using algebra-based mathematics. Through hands-on investigations and experiments, students explore complex topics including kinematics, dynamics, circular motion, momentum, harmonic motion, electric charge, circuits, and waves. The course emphasizes learning through scientific inquiry as students conduct investigations to understand how physics explains the natural world. Upon successful completion of the course and AP exam, students may earn college credit or qualify for advanced placement in college-level physics courses. **Students who take this course are required to take the Advanced Placement Physics exam when it is given in the spring.**



**ENVIRONMENTAL SCIENCE LAB  
ENVIRONMENTAL SCIENCE HONORS LAB  
FOUNDATIONS OF ENVIRONMENTAL SCIENCE LAB**

**Grades 10 - 12**

**5 credits**

This course explores how physical, biological, and earth sciences work together to create and influence our environment. Students learn scientific concepts and modern research methods to understand both natural and human-caused environmental changes. Through hands-on investigations and real-world examples, students analyze environmental challenges using scientific evidence. The course teaches students to make informed decisions about environmental issues by applying scientific principles to real situations.



**ESL ENVIRONMENTAL SCIENCE LAB**

**Grades 10 - 12 - 5 credits**

This course explores how physical, biological, and earth sciences work together to create and influence our environment. Students learn scientific concepts and modern research methods to understand both natural and human-caused environmental changes. Through hands-on investigations and real-world examples, students analyze environmental challenges using scientific evidence. The course teaches students to make informed decisions about environmental issues by applying scientific principles to real situations.

This course places a special emphasis on Multiple Language Learning (MLs), ensuring that learners not only grasp the content material but also acquire the confidence to use English effectively in diverse contexts. ESL components are seamlessly woven into each module, offering a sheltered learning approach to language acquisition.



**AP ENVIRONMENTAL SCIENCE LAB**

**Grades 10 - 12**

**5 Credits**

This course teaches students how different parts of the natural world are connected and influence each other. Students learn to identify environmental problems, whether caused by nature or humans, and develop solutions using scientific methods. The course combines knowledge from multiple sciences including geology, biology, chemistry, and geography to understand environmental challenges and their solutions. Upon successful completion of the course and AP exam, students may earn college credit or qualify for advanced placement in college-level environmental science courses. **Students who take this course are required to take the Advanced Placement Environmental Science exam when it is given in the spring.**



## **ANATOMY & PHYSIOLOGY LAB**

**Grades 11 - 12**

**5 Credits**

This course helps students understand how the human body works by exploring its basic structures and functions. Students learn about four main topics: how the body is organized, the chemistry that keeps us alive, different types of body tissues and membranes, and the major systems that make up the human body. Using tools like microscopes, interactive computer programs, textbooks, and videos, students explore human anatomy and physiology through hands-on learning experiences. Students create detailed diagrams and participate in laboratory activities to better understand how different parts of the body work together.



## **FORENSICS LAB**

**Grades 11 - 12**

**5 Credits**

This course shows students how scientific principles are used to analyze evidence found at crime scenes, while exploring various career opportunities in the field. Students learn scientific thinking methods that can be applied to solve problems across all subjects, not just science. The course explores different branches of forensic science, teaching students how technology and scientific principles help experts analyze crime scene evidence. Through hands-on activities and real-world examples similar to those seen in crime shows, students discover how actual forensic scientists use science to solve crimes.



## **ASTRONOMY LAB**

**Grades 11 - 12**

**5 Credits**

This course explores the mysteries of space through hands-on experiments and investigations. Students discover the vastness of our cosmic landscape by studying objects like planets, moons, stars, and black holes. The course examines both our local solar system, including Earth's relationship with the sun and moon, and distant space phenomena like stellar remnants and planetary formations. Through challenging activities and observations, students learn about celestial cycles and how different parts of our universe interact with each other.



## SCIENCE ELECTIVES



### **ZOOLOGY**

**Grades 10 - 12**

**2.5 Credits**

This course explores the diverse world of animals through hands-on scientific investigation. Students study the nine major groups of the Animal Kingdom, learning how different animals are classified and related to each other. The course examines how animals are structured, how their bodies function, and how they have adapted to survive in different environments. Through laboratory observations and dissections, students compare different animal species to understand their similarities and differences.



### **MARINE BIOLOGY**

**Grades 10 - 12**

**2.5 Credits**

This course explores ocean life and how marine organisms interact with their environments. Students study sea creatures from polar, temperate, and tropical waters, learning how different species survive in these unique habitats. Through hands-on examination of both preserved and living specimens, students investigate the structure and function of marine plants and animals. The course includes laboratory activities and detailed comparisons of different marine species' body structures.

### **Introduction to Public Health**

**Grades 10-12**

**5 credits**

Introduction to Public Health is a course based on the science and art of preventing disease, prolonging life, and promoting physical health and efficiency through organized community efforts. Concepts to be discussed will be the sanitation of the environment, the control of community infections, the education of the individual in principles of personal hygiene, the organization of medical and nursing services for the early diagnosis and the preventative treatment of disease. Students will also learn about the development of the social machinery which will ensure that every individual in the community has a standard of living adequate for the maintenance of health.



## WORLD LANGUAGES



### **FRENCH I / SPANISH I /ITALIAN I/PUNJABI I:**

**Grades 9 - 12**

**5 Credits**

This course develops the ability to understand, speak, read and write the language in its fundamental forms. The hearing/speaking approach is used to encourage the students to think in and speak the language from the beginning. The course includes vocabulary, everyday expressions, and basic grammatical structures. The students read stories and dialogues that introduce the customs and traditions of the people whose language they are studying. Class activities include presentation of short conversations, dictation in the language, and reading comprehension, and writing short paragraphs in the language and oral drills.



### **FRENCH II / SPANISH II /ITALIAN II/PUNJABI II:**

**Grades 10 - 12**

**5 Credits**

**\*Prerequisite: Successful completion of level one of a world language course**

This course develops fluency and accuracy in pronunciation, speaking, reading and writing. The course includes a review of the basic first-year structures and continues the study of the fundamentals of vocabulary and grammar. Reading assignments are longer and a more extensive study of geography, customs and culture is undertaken.



### **FRENCH III / SPANISH III /ITALIAN III/PUNJABI III:**

**Grades 11 - 12**

**5 Credits**

**\*Prerequisite: Successful completion of level two of a world language course**

This course allows students to demonstrate the ability to maintain and increase their understanding of the spoken word. The students will continue to comprehend and use the parts of speech, sentence structure and vocabulary. The students will further their ability to speak and write on matters related to reading materials, everyday personal experiences and individual creativity. In the classroom there will be heavy emphasis placed on conversation between students as well as between students and the teacher.



## **FRENCH IV / SPANISH IV /ITALIAN IV:**

**Grades 11 - 12**

**5 Credits**

**\*Prerequisite: Successful completion of level three world language course**

This course allows students to demonstrate the ability to comprehend and use, orally and in writing, the parts of speech, sentence structure and vocabulary. The student will be able to respond to factual questions and to interpret thoughts and ideas, orally and in writing, using complete sentences and correct syntax. The classroom activities will involve the students in amplifying communication skills (listening, speaking, reading and writing) in the target language.

## **AP SPANISH**

**Grade 12<sup>th</sup>**

**5 Credits**

This advanced course prepares students to take the Advanced Placement test in Spanish. The emphasis of the course will be in the area of the ongoing development of speaking and listening skills in conjunction with further improvement of the students' ability to read and write the world language with greater facility and accuracy. This course emphasizes communication, incorporating interdisciplinary topics, service learning and cultural/historical issues. The class is taught almost exclusively in the language. Students who successfully complete the program may be eligible for college credit or advanced placement at the college level. **Students who take this course are required to take the Advanced Placement Spanish exam when it is given in the spring.**



## **HERITAGE SPEAKERS OF SPANISH I**

**Grades 9 - 12**

**5 Credits**

**Prerequisite: This course is designed specifically for heritage speakers of Spanish.**

This course is designed for learners who are native Spanish speakers. The course is designed to build on the language base students already possess. The primary purpose of the course is to develop reading and writing skills, although all four language skills (listening, speaking, reading, and writing) are emphasized via cultural activities. Students read literature in the target language.



## **HERITAGE SPEAKERS OF SPANISH II**

**Grades 9 - 12**

**5 Credits**

### **Prerequisite: Heritage Speakers I**

This course builds upon Heritage Speakers of Spanish 1 and is designed specifically for native or heritage speakers of Spanish with oral proficiency but little or no formal training in the language. The primary purpose of the course is to develop reading and writing skills, although all four language skills (listening, speaking, reading, and writing) are emphasized via cultural and community activities. Students will read literature from the target language countries, watch movies and programs from target language countries.



## **AMERICAN SIGN LANGUAGE ONLINE I and II :**

**Grades 9-12**

**5 Credits**

### **Prerequisite: Successful completion of level one for ASL II.**

This online course provides a foundation of signing production and comprehension, as well as writing and comprehension of ASL gloss. Through the two years, students will be able to communicate and interact within the context of a variety of everyday situations such as family, school life, eating, shopping, and traveling. Students will also be able to communicate at an abstract level and talk about their own feelings and opinions in ASL. In addition, students will gain an increased understanding of Deaf culture, with specific attention paid to education in the Deaf community, development of assisted communication technology, and interactions between Deaf and hearing communities.



## **VISUAL AND PERFORMING ARTS**

### **INTRODUCTION TO ACTING**

**Grades 9 - 12**

**2.5 credits**

This course will help students and is designed for students who are interested in learning the basic elements needed to act. Through individual and group exercises, improvisations, and scene work, this class helps students develop their acting potential and sharpen their skills in interpreting scripts and creating character. Students will learn the inner workings of script analysis and the process professional actors go through in order to prepare for an upcoming role. Through the use of different acting methods, students will refine their character development and create realistic relationships and emotions for performance. Through the use of scene study, students will work towards a final performance.

### **THEATER PRODUCTION**

**Grades 9 - 12**

**2.5 Credits**

This course is designed to prepare students for future careers behind the scenes in the theater world. The course will be designed to teach production aesthetics for a theatrical performance. The beginning technicians will learn to interpret and execute a theatrical designer's plans in areas such as costume design, lighting design, makeup design, scenic design, sound design, and properties mastery. The course will teach basic script analysis in order to assist students in figuring out the inner workings and design elements of a theatrical performance.

### **ACTING I**

**Grades 9 - 12**

**5 Credits**

This course is an audition-based course for students who have a strong desire to develop their acting skills. This course is designed for students to achieve their full acting potential through the study of techniques such as Method Acting, Stanislavski System, Meisner Technique, Realism, and acting through games. The course will focus on working towards a performance-ready production, which will allow students to discover the "who, why, where, when, and how" of each character. The course will stress the students' ability to use their bodies, minds, and experiences in a believable, honest way. Finally, this course will help prepare students for college readiness and auditions through the use of monologue preparation, cold reading work, audition workshops, and resume building.

### **INTRODUCTION TO STAGE PAINTING**

**Grades 10 - 12**

**2.5 Credits**

In this course students who are interested in pursuing a career in cosmetology or working behind the scenes as a make-up artist in the world of theater would benefit from taking Introduction to Stage Make-up. Students will learn skin care and make-up basics, the basics of a Make-up Artists kit, color matching, and creating various looks. Students will learn to create a basic stage look, an old person look, create a zombie/ill look, learn to work with liquid latex, and prepare for their own final created look.



## **BAND**

**Grades 9 - 12**

**5 Credits**

**Prerequisite: Students must successfully have completed a middle school band course or be taking private instructions, However, a student who has never played an instrument but has a strong desire to begin instrumental music instruction may enroll in the band program.**

**Provisions are made for beginners.**

This course is open to all students who desire to learn a band instrument. Band gives the less proficient student an opportunity to perform with the knowledge that he/she is aided and supported by stronger players. The band members may perform at concerts, festivals, competitions, High School football games, and other school and community functions throughout the school year in a variety of ensemble format, the primary ensemble being the Concert Band.

## **HONORS WIND ENSEMBLE**

**Grades 9 - 12**

**5 Credits**

**Prerequisite: For advanced players only. By recommendation only, based on ability and the need of the ensemble (i.e. instrument).**

This course is designed to expand the understanding and awareness of an extremely wide range of musical styles, ranging from Classical, Opera, Jazz, Early Rock, Swing and Big Band, to popular styles of today's music. The focus will be placed mainly on examining the cultural importance in history of each genre, with relevant examples of each genre studied to maximize effect.

## **MUSIC APPRECIATION**

**Grades 9 - 12**

**2.5 Credits**

This course is an introduction to music. In addition to establishing a lifelong appreciation for music, students will establish a deep understanding for the genres of music and music-making process through a series of assignments, assessments and projects. This course encourages students to intelligently explore music as a form of art and as a form of entertainment.

## **MUSIC THEORY**

**Grades 10 - 12**

**2.5 Credits**

**Prerequisite:** Previous successful completion of Carteret High School vocal or instrumental music course. This course is designed to develop skills in; reading music, listening to sounds and being able to identify and describe, discussing and analyzing music, so that beginning students will have a background to use in furthering his/her study of music. The student follows a progressive study of writing and composing music. Musical understandings are basic knowledge of how music works as a language and how to use this language to communicate with others.



## **CHOIR**

**Grades 9 - 12**

**2.5 Credits**

This course is designed for students that have the desire to expand their vocal and musical knowledge. The ensemble performs at a high level of proficiency. Instruction is based on performance literature with an emphasis on public performances both in and out of school. In choir, concepts are taught through the areas of singing, listening, individual and group activities with a special emphasis given to intonation, style, musical symbols and structure.

## **HONORS CHAMBER CHOIR**

**Grades 10 - 12**

**5 Credits**

**Prerequisite: Placement in this group is contingent on a successful audition that takes place in the Spring.**

This course is a performance-based elective that focuses on developing students' vocal skills, musical knowledge, and personal growth at an advanced level. The curriculum features carefully chosen four-part or more choral pieces, designed to challenge and enhance musical abilities. Open to all CHS students by audition, this course requires full commitment to both rehearsals and performances each semester. Attendance at all rehearsals and performances is mandatory.

## **CHORALE**

**Grades 9 - 12**

**5 Credits**

**Prerequisite: Placement in this group is contingent on a successful audition that takes place in the spring or by teacher recommendation.**

This course is a year-long vocal music elective for students who enjoy singing and want to improve their musical skills. In this class, students will explore a wide range of music styles, including songs from around the world, pieces in different languages, concert masterworks, Broadway hits, jazz, folk, and multicultural music. The choir performs twice a year, with concerts in December and May. Students may also have opportunities to participate in competitions, festivals, and field trips to concerts and operas, adding to their musical knowledge and performance experience.

## **INTRO. TO PIANO/KEYBOARDING**

**Grades 10 - 12**

**2.5 Credits**

**Prerequisite: Successful completion of a vocal or instrumental music course at Carteret High School.**

This course is designed for students who wish to develop basic piano playing skills or expand on their existing skills. Time in class will be spent both on and off of the keyboards. While playing, students will be working individually and in groups to master the techniques of playing and to learn the required pieces of music.

## **INTRODUCTION TO GUITAR**

**Grades 9 - 12**

**2.5 credits**

This course will teach the student the foundations of playing the acoustic guitar. Topics covered will include string names, tuning, basic music theory, musical timing, and chord structures. This class is intended to take the student from a complete novice to a more intermediate level of musicianship. No prior musical experience is necessary. School instruments will be provided.



## **Guitar 2**

**Graders 10-12**

**2.5 credits**

**Prerequisite: Successful completion of Introduction to Guitar**

This course will allow students wishing to further their own personal abilities with learning the guitar. Students in this class will have access to much more advanced material. They will be able to progress at the rate of their abilities.

## **Introduction to Music Production**

**Grades 10-12**

**2.5 credits**

This course is designed for students interested in producing their own music and beats. Students will learn the basics of music production in a digital audio workspace (DAW). This will include learning how to use the software Soundtrap, where they will create beats, build chord progressions and bass lines, write melodies, and arrange preexisting or recorded tracks. Students will learn to think like a DJ and songwriter, reflecting on their own favorite music, and critically listening to inform their own creative decisions. They will apply their ideas and technical skills to real world projects such as songwriting, podcasting, video game and commercial scoring, and more.

## **DANCE**

**Grades 10 - 12**

**2.5 credits**

This course introduces students to the art of dance, blending creativity and technique across multiple styles, including ballet, modern, jazz, social, and folk dance. Through active, movement-based sessions, students will explore how to move with awareness, express themselves, and master the basics of dance. They'll engage in exercises that develop their understanding of levels, dynamics, patterns, floor work, and improvisation. Whether discovering their own style or learning classic techniques, students will gain confidence, artistry, and a deeper connection with their body and movement.

## **DESIGN A**

**Grades 9 - 12**

**2.5 Credits**

This course is a basic introduction to art design and focuses on students interested in more hands-on projects. Students get introduced to such things as Medieval Illuminated Lettering, Three Styles of Art, Wassily Kandinsky Painting, Op Art, Mini Book Design, Origami, Mosaic, Views of an animal drawing, and Parody of Famous Artwork. Students will gain experience with working on a wide variety of media: such as various papers, tempera, crayons, pastels (oil and dry), tape, cutting, tearing, block printing, inks, newspaper, cardboard, chipboard, paper-mache, paint wire, and many more.



## **DESIGN B**

**Grades 10 - 12**

**2.5 Credits**

This course builds on the knowledge learned in Design A. It focuses on students interested in hands-on projects that are more intricate. Students get introduced to such things as Surrealism, Zentangle, Pop Art, design a sneaker, Chuck Close Self-portrait, Coiled Recycled Magazine Basket, Mythological Creature, Abstract Design and Alphabet Font design. Students will gain experience with working on a wide variety of media: such as various papers, tempera, crayons, pastels (oil and dry), tape, cutting, tearing, block printing, inks, newspaper, cardboard, chipboard, paper-mache, paint wire, and many more.

## **ART APPRECIATION**

**Grades 9 - 12**

**2.5 Credits**

This course introduces students to the world of visual art, exploring famous artworks, artists, and movements from around the globe. Students will learn to analyze and interpret various styles, from classical to modern art, while discovering the historical and cultural contexts that shaped each piece. Through class discussions, hands-on activities, and projects, students will develop their understanding of art elements, principles of design, and artistic techniques.

## **DRAWING**

**Grades 9 - 12**

**2.5 Credits**

This course is a foundational course that introduces essential drawing techniques and creative processes, guiding students from basic skills to more complex projects. Using a variety of media, students will explore techniques in still life, portraiture, and perspective, while learning to interpret and improve their work through the elements and principles of design.

## **DRAWING 2**

**Grades 10 - 12**

**2.5 Credits**

**Prerequisite: Completion of Drawing I**

This course provides for further development of the concepts taught in Drawing 1 with more intense study of composition and elements/principles of design as applied to two dimensional forms. Students learn how to communicate visually through their work and use a variety of media including acrylic paint and collage.

## **PAINTING 1**

**Grades 10-12**

**2.5 Credits**

This course is a class for students that are looking to expand their knowledge and skills in visual art. It provides a foundation of acrylic painting, its application techniques and materials. The course is scaffolded so students will be taught the skills first before building on them. Color theory and composition will also be addressed. Students taking this course must have successfully completed a drawing or design class along with a portfolio review.



## **PRACTICAL ARTS, BUSINESS and TECHNOLOGY ELECTIVES**

### **FINANCIAL LITERACY**

**Grades 10 - 12**

**2.5 Credits**

This required course focuses on essential skills in finance, economics, business, and entrepreneurship, with an emphasis on real-life applications. Students will learn about personal decision-making in areas like budgeting, career planning, investing, loans, and insurance to build a strong foundation for managing their financial futures.

#### **Foundations of Financial Literacy I**

**Grades 10-12**

**2.5 Credits**

This required course focuses on essential skills in finance, economics, business, and entrepreneurship, with an emphasis on real-life applications. Students will learn about personal decision-making in areas like career planning, income, investing, loans, risk management, debit and credit, and insurance to build a strong foundation for managing their financial futures.

#### **Foundations of Financial Literacy II**

**Grades 10-12**

**2.5 Credits**

The second part of the Foundations of Financial Literacy continues to focus on essential skills in finance, economics, business, and entrepreneurship, with an emphasis on real-life applications. Students will continue their learning about personal decision-making in areas like career planning, budgeting, and general financial literacy in regards to all different types of people in the community and how it relates to other aspects of our life such as social, emotional, and climate in order for students to build a strong foundation for managing their financial futures.



### **INTRO TO COMPUTER SCIENCE**

**Grades 10 - 12**

**2.5 credits**

This course teaches students the fundamentals of both computer programming and computer science, focusing on how to approach and solve complex problems. Students learn essential programming concepts while developing logical thinking skills that help them break down and analyze challenges systematically. The course covers core computer science topics and basic coding skills, giving students a solid foundation in technology tools and concepts. This foundation prepares students for advanced courses like AP Computer Science Principles and AP Computer Science A.



## **INTRO TO ROBOTICS**

**Grades 10 - 12**

**2.5 credits**

This course teaches students fundamental coding concepts like while loops and if-then statements through collaborative robotics projects. Working in teams of three, students learn essential teamwork skills while building and programming robots to solve various challenges. Teams face new robotics challenges every few weeks, requiring them to apply their programming knowledge and work together effectively. The course prepares students for more advanced studies in AP Computer Science Principles by building both technical and collaborative skills.



## **AP COMPUTER SCIENCE PRINCIPLES**

**Grades 10 - 12**

**5 credits**

**Prerequisite: Intro to Robotics or Intro to Computer Science**

This course explores how computers work and process information, teaching students core concepts through hands-on programming activities. Students learn creative programming techniques, data analysis, internet operations, and cybersecurity while examining how technology impacts our world. The course challenges students to create their own computer programs and digital projects that solve problems and express their ideas. Upon successful completion of the course and AP exam, students may earn college credit or qualify for advanced placement in college-level computer science courses. **Students who take this course are required to take the Advanced Placement Computer Science Principles exam when it is given in the spring.**



## **AP COMPUTER SCIENCE A**

**Grades 10 - 12**

**5 credits**

**Prerequisite: Intro to Computer Science or AP Computer Science Principles**

This course teaches students how to solve complex problems using the Java programming language, covering fundamental topics like design strategies, data structures, and algorithms. Students learn both object-oriented and imperative programming techniques that can be applied to projects of any size, from simple programs to complex applications. The course matches the content of introductory college computer science courses while examining the ethical and social impacts of technology in our world. Upon successful completion of the course and AP exam, students may earn college credit or qualify for advanced placement in college-level computer science programs. **Students who take this course are required to take the Advanced Placement Computer Science A exam when it is given in the spring.**



## **DIGITAL JOURNALISM**

**Grades 11-12**

**2.5 credits**

This course introduces students to the fundamentals of news writing, reporting, and digital media production. In this course, students will create a school newspaper, developing skills in article writing, interviewing, editing, and layout design. They'll also explore digital communication tools, learning how to share news across social media and online platforms. By the end of the course, students will gain hands-on experience in producing and publishing digital content for a real audience.

## **DIGITAL DESIGN AND PRODUCTION: YEARBOOK**

**Grades 11-12**

**2.5 credits**

This course will offer high school students the opportunity to participate in the creation and publication of the school's yearbook. This hands-on course combines photography, graphic design, journalism, marketing, and project management, providing students with valuable real-world skills. By the end of the course, students will have contributed to a professionally produced yearbook that captures the memories, events, and spirit of the school year.

## **COLLEGE & CAREER SEMINAR**

**Grades 11 or 12**

**2.5 Credits**

This course is designed to help students explore and prepare for their future academic and professional paths. This course covers essential topics such as goal setting, career exploration, college applications, resume building, and interview skills. Students will learn about different career fields, educational pathways, and financial planning options to make informed decisions about their futures. Through hands-on projects and interactive activities, students will develop the skills and confidence needed to succeed in both college and career environments.

## **AVID I**

**Grade 9**

**2.5 credits**

**Advanced Placement Via Individual Determination.**

This course is a college readiness course designed to support motivated students in reaching their academic and personal goals. Through this program, students will develop key skills like critical thinking, organization, time management, and effective study habits. The course emphasizes collaboration, problem-solving, and goal-setting, preparing students for success in high school, college, and beyond. AVID also provides students with access to academic resources, tutoring, and college and career exploration to help them stay on track and achieve their fullest potential.



## **AVID II**

**Grade 10**

**2.5 credits**

### **Advanced Placement Via Individual Determination.**

This course is designed to prepare tenth grade students to become global thinkers, problem solvers, to work collaboratively, and to develop their college and career readiness skills. It provides students with the skills needed to be college ready upon graduation.

## **AVID III**

**Grade 11**

**5 credits**

### **Advanced Placement Via Individual Determination.**

This course is designed to prepare eleventh grade students to become global thinkers, problem solvers, to work collaboratively, and to develop their college and career readiness skills. It provides students with the skills needed to be college ready upon graduation.

## **AVID IV**

**Grade 12**

**5 credits**

### **Advanced Placement Via Individual Determination.**

This course is designed to prepare twelfth grade students to become global thinkers, problem solvers, to work collaboratively, and to develop their college and career readiness skills. It provides students with the skills needed to be college ready upon graduation.

## **PEER LEADERSHIP**

**Grade 12**

**5 credits**

Students are eligible to apply to enroll in the year-long and/or semester-long Peer Group Connection Leadership Course during their junior and/or senior year by completing a written application, obtaining faculty recommendations, and participating in a group interview process. Enrollment is limited. Written parental permission and participation in a 3-day, 2-night overnight leadership training retreat, to be scheduled during the summer, are requirements for participation in the course. In this experiential leadership class, the selected students (hereafter known as peer leaders) will gain the skills and confidence necessary to be positive role models and group facilitators for 9th grade students to support their transition to high school. Peer leaders will work in pairs to utilize the leadership skills they develop in the course to conduct weekly outreach sessions with small groups of incoming 9th grade students. Peer leaders will learn decision-making; problem-solving; goal setting; teamwork; negotiation; refusal; group facilitation; giving and receiving feedback; active listening; time management; and self assessment skills. Topic areas addressed include personality and work styles; interpersonal relationships; the connection between academic success and life after high school; the importance of attending school regularly; planning for the future; parent-teen communication; decision making; cultural diversity; and safety. Student assessment will be based on mastery of leadership skills, role modeling behaviors, class participation, and self-assessments.



## **SUPPLY CHAIN MANAGEMENT I**

**Grades 10 - 12**

**2.5 Credits**

This course engages students in solving contextual problems related to the concepts of supply chains, what house location, contingency planning, insourcing and outsourcing, and expanding existing supply chains. The concept forms the basis of global logistics and supply chain management and helps students understand how professionals examine options to maximize the use of resources across distribution networks.



## **SUPPLY CHAIN MANAGEMENT II**

**Grades 10 - 12**

**2.5 Credits**

**Prerequisite: SUPPLY CHAIN MANAGEMENT I**

This course on supply chain management explores the concepts of ethical sourcing, lead-time adjustment, and transportation system planning. This course compels students to explore deeper understandings of the concepts they discovered in the previous course as they navigate projects on warehouse design, inventory management, transportation optimization, information technology, emergency responsiveness and the supply chain for manufacturing. Students use their experiences in this course to discover ways that professionals minimize the outlay of resources while improving efficiency and ability in the global market. The course is designed to have students work in teams that present solutions to company stakeholders, similar to the style of Shark Tank. Completion of all four logistics courses lead to certification in Supply Chain.

## **STRUCTURAL ENGINEERING AND DESIGN**

**Grades 10 - 12**

**2.5 Credits**

In this course students will be able to grasp the basic fundamentals regarding the history of various structures. Students will design and construct their own bridge, tower, and catapult. Students will assess these structures for distance, accuracy and efficiency. They will also construct balsa wood airplanes while learning the history and testing the airplanes for flight time.

## **TRANSPORTATION ENGINEERING AND DESIGN**

**Grades 10 - 12**

**2.5 Credits**

This course students will embark on a learning quest to design and construct vehicles and assess these vehicles by time and distance. Some challenges will include a Mousetrap Car, that will be assessed by the furthest distance, an Electric Car, and culminating the transportation unit with a Co2 Car, that will be both assessed on speed. Students will grasp the uses of simple machines, electric circuits and aerodynamics among other topics. Students will then construct a Tetrix Max robot that will compete against other robots in the class in different challenges.



## **PRINCIPLES OF COMPUTER AIDED DESIGN**

**Grades 10 - 12**

**2.5 Credits**

This course focuses on having students familiarize themselves with AutoCAD. They will learn simple commands and progressively move onto more advanced commands. After the students have mastered simple commands, they will continue with various views of an object. They will learn the top, front and right side views of an object and then create detailed drawings. After the students have mastered those views, they will draw Isometric views and comprehend why it is necessary to have auxiliary views. Learning will progress from drawing simple geometrical shapes to drawing complex gaskets and Isometric views.

## **ARCHITECTURAL MODELING AND 3D PRINTING**

**Grades 10 - 12**

**2.5 Credits**

**Prerequisite: Principles of Computer Aided Design**

This course is a continuation of Principles of Computer Aided Design. In this half year course students will become familiarized with 3D printing and design. They will continue their learning quest by designing 3D models and have the models 3d printed. Students will implement the skills that they acquired in the Principles of Computer Aided Design course. After the 3D unit the students continue with scale models and their uses. Students will acquire knowledge on how buildings are constructed and will erect a scale model of a house or garage. After modeling, students will learn floor plans and how to identify different types of symbols used on floor plans. After they have mastered those steps, the students will draw floor plans and elevation views for a dream house.

## **VIDEO PRODUCTION I**

**Grades 10 - 12**

**2.5 Credits**

In this course students explore the history and power of visual media while building skills in media literacy. They'll dive into each phase of production, trying out on-screen and behind-the-scenes roles to create successful projects. Students will work with production equipment, practice scriptwriting, and experiment with lighting and audio to produce commercials, public service announcements, and interviews. This course is perfect for those interested in cameras, editing, acting, writing, teamwork, and public speaking, as well as learning about career paths in media.

## **VIDEO PRODUCTION II**

**Grades 10 - 12**

**2.5 Credits**

This course dives deeper into the fundamentals of creating productions. Students will learn about camera angles, green screen usage and be exposed to more complex editing techniques. Students will be able to produce short films, music videos and newscasts. The course will also promote the following skills: critical thinking, collaboration, problem-solving and interdisciplinary thinking, written and oral communication, research and time management.



## **DIGITAL DESIGN I**

**Grades 10 - 12**

**2.5 Credits**

This course focuses on having students have a hands-on introduction to understanding how multimedia affects our world today. This course will focus on the art of advertising and how it directly creates revenue. Students will partake in planning various design original campaigns using Photoshop such as billboards, logos, and magazine ads. Students will go through the real thought process of a digital designer from brainstorming to final product.

## **PRINCIPLES OF BUSINESS**

**Grades 10 - 12**

**2.5 Credits**

This course is a comprehensive introductory business course that provides students with instruction in business concepts and skills that are needed in today's competitive environment. This course helps students learn business terminology and provides the groundwork into the study of economic decisions and systems, economic activity and how it is measured, business in the global economy, international business basics, social responsibility, ethics, business ownership, management and operations. Students will gain a better understanding of what the business world is all about and how a business operates and which business functions are needed in any business enterprise. Students that are considering a career in any area of business (marketing, finance, advertising, accounting, business management/administration, economics, international business, etc.) are encouraged to take this course.

## **BUSINESS LAW**

**Grades 10 - 12**

**2.5 Credits**

This course is designed for students bound for college and those entering the workforce by focusing on contract and tort law and touching upon criminal law. These laws serve as a foundation of business, employment, and personal law. Students are given the opportunity to gain awareness and express themselves on subjects dealing with legality, jurisprudence, morality and ethics. Business Law has enormous practical value, providing a background for professional exploration and emphasizing the challenges of private life such as finding a job, renting or buying a home, starting a company, or writing a will. Students will be able to apply critical thinking skills regarding legal principles in a variety of situations.

## **ACCOUNTING**

**Grades 9 - 12**

**2.5 Credits**

This course covers a broad range of accounting principles. It includes instruction in special journals, posting, trial balancing, work sheets, financial statements, adjustments, and closing ledgers. Students are introduced to computerized accounting. This course is highly recommended for students who are training for many of the business occupations as well as students planning on becoming accounting or business majors at the college level.



## **ENTREPRENEURSHIP**

**Grades 10 - 12**

**2.5 Credits**

This course offers an overview of owning a business. The units are designed around showing students the internal and external fundamentals of business, which would include: marketing, accounting, economics, management, technology, and ethics. Students would be responsible for starting their own fictional business and enduring the trials, tribulations and success a business would go through.

## **DIGITAL BUSINESS TOOLS**

**Grades 9 - 12**

**2.5 Credits**

This semester course will provide students with an understanding of the fundamentals behind the operation of digital devices. Students will learn how their digital footprint impacts their future with a focus on online media safety. Students will be able to learn and apply all Google Applications to hands-on 21st century projects and presentations. Students will gain skills they can utilize into the tenure of their high school experience. This course would be best geared towards all students who need to learn how to better apply their computer skills.

## **ADVANCING WITH GOOGLE**

**Grades 10 - 12**

**2.5 Credits**

This course is designed to provide students with necessary skills in today's digital world for their future academic and career aspirations. This course would be strictly taught using Google created PBL style lessons that are linked to NJ State Standards and ISTE standards. Students would do all project based activities to acquire the skills needed to master using Google Suites.

## **ADVANCING WITH GOOGLE II**

**Grades 11-12**

**2.5 credits**

**Prerequisite: Advancing with Google I**

This course is designed with a project-based curriculum, linked to NJ state standards and ISTE standards. This course provides advanced users an opportunity to go further into the use of Google tools. This class focuses on giving students a deeper understanding of how the tools integrate with each other and how to apply them to school, work, and life. It is designed to provide students with the digital skills needed in a growing world of technology, work collaboratively, and create new and exciting opportunities for personal and professional growth.



## **21st CENTURY MARKETING**

**Grades 10 - 12**

**2.5 Credits**

This course teaches students to understand principles and concepts of marketing, promotional strategies for marketing products, the selling process in sales environments and image, service and customer relations. They will demonstrate competency describing the relationship between profit and customer service, developing and presenting a business plan, applying marketing knowledge to economics, distribution, pricing strategies, selling, promotion, internet-based business and career planning. A co-curricular partner of this class is DECA - a national organization for marketing students that develops self-esteem, communication skills and character leadership. Students compete on a regional basis, state basis and national basis. Class discussions will revolve around marketing experiences in this social media based shopping.

## **SPORTS AND ENTERTAINMENT MARKETING**

**Grades 10 - 12**

**2.5 credits**

This course will allow students to explore the intriguing world of sports and entertainment from the marketing perspective. Throughout the course, students will apply core marketing standards such as channel management, pricing, marketing information management, product/service management, promotion, selling, and market planning. Students will relate marketing basics, customer service, economics, and business and international business concepts to the sports and entertainment industry. While applying marketing concepts, students will complete hands-on projects that incorporate learning and innovation skills, life and career skills, 21st century skills, and information, media, and technology skills to prepare them for the real world. Students will also explore current trends in social media, math in marketing, communication skills, cooperative learning, legal and ethical industry issues, Internet activities, and sports and entertainment success stories/case studies to develop a deep understanding of Sports and Entertainment Marketing.

## **AP Business with Personal Finance**

**Grades 10-12**

**5 credits**

This course focuses on applying management, marketing, and financial skills to real-world, career-connected scenarios. Students will complete two major hands-on projects: a Business Canvas Project where they develop an original entrepreneurial model, and a Financial Advisor Project where they create a comprehensive budget and investment strategy for a fictional household. Ultimately, the course is designed to assess a student's ability to make evidence-based decisions in both professional and personal financial contexts.



## **Student Entrepreneur Program (STEP)**

**Grades 10-12**

**2.5 credits**

This semester-long course gives students the opportunity to operate a real, school-based business through the Student Entrepreneur Program (STEP). Students develop entrepreneurship, financial literacy, marketing, graphic design, and leadership skills by managing a student-run printing business that serves the school and local community. The course is built around hands-on, project-based learning. Students design products, manage finances, market services, and fulfill customer orders using the ecoler+ Poster Printer System. Emphasis is placed on teamwork, responsibility, problem-solving, and professional skills. STEP was developed by Presentation Systems Inc. (PSI), a company with long-standing partnerships in education. The program grew from a successful student-run business model that has since been implemented in schools across the country.

## **WOODWORKING I**

**Grades 9-12**

**2.5 credits**

This course demonstrates woodworking skills through a variety of hands-on projects utilizing hand powered tools under teacher supervision. The skills obtained through completion of this course include measuring, marking, sawing, hammering, basic, intermediate and advanced joinery, using a block plane, using a coping saw, using a rasp, etc.

## **WOODWORKING II**

**Grades 10-12**

**2.5 credits**

**Prerequisite: Woodworking I**

This course demonstrates woodworking skills through a variety of hands-on projects utilizing hand powered tools under teacher supervision. The skills obtained through completion of this course include measuring, marking, sawing, hammering, basic, intermediate and advanced joinery, using a block plane, using a coping saw, using a rasp, etc.

## **WOODWORKING III**

**Grades 11-12**

**2.5 credits**

**Prerequisite: Woodworking II**

This course demonstrates woodworking skills through a variety of hands-on projects utilizing hand powered tools under teacher supervision. The skills obtained through completion of this course include measuring, marking, sawing, hammering, basic, intermediate and advanced joinery, using a block plane, using a coping saw, using a rasp, etc.

## **ESPORTS I**

**Grades 10-12**

**2.5 credits**

This course is designed to enhance the social and emotional development of esports athletes through the incorporation of Social Emotional Learning (SEL) best practices, sports psychology, and wellness into their esports practice regimen. Students participate in lessons and activities that align with the social and emotional competencies developed by the Collaborative for Academic, Social, and Emotional Learning (CASEL).



Students will have the opportunity to compete in online gaming platforms against other schools in New Jersey and beyond.

**ESPORTS II**  
**Grades 11-12**

**2.5 credits**

This course is designed to enhance the social and emotional development of esports athletes through the incorporation of Social Emotional Learning (SEL) best practices, sports psychology, and wellness into their esports practice regimen. Students participate in lessons and activities that align with the social and emotional competencies developed by the Collaborative for Academic, Social, and Emotional Learning (CASEL). Students will have the opportunity to compete in online gaming platforms against other schools in New Jersey and beyond.

**ESS GROUP LIFE SKILLS/LEARNING STRATEGIES:**

**Grades 9 - 12**

**5 Credits**

This course is part of Effective School Solutions, which is a therapeutic program that allows each student individualized and quality clinical and related services so that he/she can fully benefit from all that Carteret High School has to offer.

**Online LEARNING: Grades 9, 10, 11, and 12**

Online learning opportunity for credit recovery and core courses.

**TWILIGHT PROGRAM: Grades 10, 11, and 12**

Carteret Public Schools realizes today's adolescent learners are more diverse than ever in terms of their backgrounds, interests, learning styles, and motivations. Thus, we are addressing these differences by thinking outside the box and creating alternative education settings that acknowledge the fact that not everyone can learn in the traditional classroom setting. Our Twilight Program is offered after school and online through learning.

## **SPECIAL EDUCATION ELECTIVES**

**LANGUAGE ARTS FOR EVERYDAY LIVING**

**Grades 12+**

**5 Credits**

This course is a life skills focused English course for our students that have completed their graduation requirements and are enrolled in our transition program. The curriculum for this course emphasizes reading, writing, and speaking/listening skills for everyday success at home, on the job, and in the community.

**LIFE SKILLS/ADL**

**Grades 9-12**

**5 Credits**

This course is designed to foster growth of independent living skills that are taught and repeated through hands-on activities while in high school. Emphasis is placed upon self-awareness, health and self-care, social



interaction, problem solving, household and money management, career awareness and daily living skills. Content is modified to address specific student needs based upon goals set forth in the Individual Educational Plan. Opportunities to acquire independent living skills, positive self-esteem and greater self-sufficiency are taught at an appropriate pace based upon ability in order for students to experience success.

### **MATH FOR EVERYDAY LIVING**

**Grades 12+**

**5 Credits**

This course is a life skills focused math course for our students that have completed their graduation requirements and are enrolled in our transition program. The curriculum for this course emphasizes number recognition, time, money, and measurement skills for everyday success at home, on the job, and in the community.

### **SOCIAL SKILLS**

**Grades 9-12**

**5 Credits**

This course is designed to foster positive communication and interaction amongst students in grades 9-12+ and develop greater social competence in a variety of situations. Social skills learning helps prepare young people for success in transition and adulthood. Social skills learning improves students' communication with peers and adults, improves cooperative teamwork, and helps them become effective, caring, concerned members of their communities. At the same time, it teaches students how to set and achieve individual goals and persistence, skills that are important for their successful development into adulthood, work, and life. Social skills covered include respect, feeling identification, anger management, problem solving skills, and conversation and friendship skills. Opportunities to acquire these skills are taught at an appropriate pace based upon ability in order for students to experience success.

### **WORK BASED LEARNING/CAREER EXPLORATION:**

**Grades 12+**

**10 Credits**

This course includes experiential, supervised, in-depth learning experiences that are designed to offer students the opportunity to more fully explore career interests within one or more of the career clusters, as described in N.J.A.C. 6A:8-3.2, Career education and counseling. WBLs are designed as rigorous activities that are integrated into the curriculum and that provide students with opportunities to: demonstrate and apply a high level of academic attainment; develop career goals; and develop personal/social goals. WBLs are available for special needs students and must be supervised by a job coach. At Carteret High School, this program is called "I'M POSSIBLE". Students participate in real world, community based job sites and are able to apply for jobs with real work experience. As our motto says, it is not Mission Impossible, rather I'M POSSIBLE!



## **COLLEGE & UNIVERSITY PARTNERSHIPS**

*College Credit-Bearing Course Offerings \**

**MIDDLESEX COLLEGE HIGH SCHOOL SCHOLARS PROGRAM:** Middlesex County College and Carteret High School have an agreement to allow high school students to earn college credits by attending classes on the College's Edison, NJ campus while still in high school. Juniors and seniors are eligible to enroll in any 100 or 200 level course that is offered in a given semester. The tuition is payable directly to Middlesex College by the student's parent/guardian. Students who wish to enroll in the High School Scholars Program should see their school counselor to review course options, registration authorization and information about tuition. Successful completion of each course will earn the student 3 college credits. All course offerings are made available by Middlesex College and can be reviewed on their website: <https://www.middlesexcc.edu>



**MIDDLESEX COLLEGE DUAL ENROLLMENT PROGRAM:** The Dual Enrollment Program through Middlesex College affords students an opportunity to earn college credit for courses taken at high school. The Middlesex College Program has approved the following for credit: Advanced Placement Biology; Pre-calculus, Calculus and Advanced Placement Statistics. Students who are taking these courses at Carteret High School and wish to also be enrolled in the Dual Enrollment Program should see their school counselor to review registration, information and course requirements.

**SUCCESS BOUND WITH MIDDLESEX COLLEGE:** In partnership with Middlesex College, Success Bound, prepares high school students to develop the necessary skills to become successful learners and future college students.

Success Bound has four goals: to increase post-secondary enrollment, develop soft-skills, increase civic engagement, and to reduce remedial placement in college level courses. The program is a year-long commitment inclusive of a 5-week summer institute. The institute aims to equip participants with the support he/she will need to be a motivated student prepared for college through learning: time management, how to work in groups, goal setting, college/FAFSA application process and career exploration.

This course is designed to help you explore career options, set meaningful academic and career goals, develop essential skills such as information literacy and critical thinking skills, and engage in academic behaviors and study strategies that will help you be independent and successful.

**LEARNING OUTCOMES OF THE STUDENT SUCCESS COURSE: What you will be able to do after successfully completing this course.**

You will develop a higher sense of self-efficacy by:

Identify and utilize strategies and resources that promote academic success, personal growth, and resilience.

Demonstrating critical thinking, information literacy, and technological skills.

Practicing interpersonal and leadership skills essential in a diverse, global society.

Reflecting on values, goals, decisions, and actions in relation to their impact on self and others.

Creating academic, career and financial plans.