

PROGRAM PLANNING GUIDE



Sterling High School District

501 South Warwick Road
Somerdale, NJ 08083
(856) 784-1333

TABLE OF CONTENTS

3	<u>Mission and Vision Statements</u>
4	<u>Planning the Individual Curriculum</u>
6	<u>Descriptions of Academic Levels</u> <u>Special Education</u> <u>NJSLA</u>
7	<u>Programs of Study</u>
8	<u>Business</u>
9	<u>Communications Technology</u>
10	<u>Engineering</u> <u>English</u>
12	<u>Family and Consumer Science</u>
14	<u>Health and Physical Education</u>
16	<u>Health Sciences</u> <u>Math</u>
18	<u>NJROTC</u>
19	<u>Science</u>
21	<u>Social Studies</u>
23	<u>Visual & Performing Arts</u>
26	<u>World Languages</u>

STERLING HIGH SCHOOL DISTRICT BOARD OF EDUCATION

Mission Statement

Sterling Regional High School District will serve the needs of a diverse student body by maintaining a safe and respectful learning environment, cultivating high standards of excellence, and preparing our students for life beyond high school.

Core Beliefs:

- We believe in collaboration to maximize teaching and learning.
- We believe that each parent has a critical role in student development.
- We believe in excellence in education.
- We believe in a supportive community.
- We believe in staff accountability and leadership.
- We believe in providing essential resources that foster academic achievement.
- We believe in student responsibility.
- We believe that excellence in education is achieved through collaborative teaching and learning.

Based on these beliefs, we are committed to:

- Providing each student with an equal opportunity
- Providing a safe and supportive environment
- Encouraging student motivation and personal initiative
- Modeling lifelong learning
- Effective communication between school and stakeholders
- Recruit and retain the highest quality administration, faculty, and staff
- Providing students with the most effective technology to enhance experiential learning
- Guiding students toward responsible citizenship and personal drive

Shared Vision

Our students will achieve their highest potential in personal and academic growth, become upstanding citizens, and contribute to today's global society.

Statement of Non-Discrimination

All courses are offered to every student regardless of the student's race, color, national, origin, religion, sex or handicap. If a student or parent feels that any course prerequisite is discriminatory, they should contact the Affirmative Action Officer at (856) 784-1331.

PLANNING THE INDIVIDUAL CURRICULUM

Overview

Members of the guidance and counseling staff will meet with students and parents, if requested, to plan course requests. Every effort is made to fulfill each individual student's needs. Final requests should be made only after carefully considering past academic performance, academic and/or career goals, teacher recommendations, and standardized test results. This is important not only to most benefit the student, but also because of the complexity and of our educational program and variables affecting scheduling. Only changes resulting from clerical errors or summer school adjustments will be considered after June 30th.

Selecting advanced level courses assumes a mastery of the fundamentals. Students with marginal grades are advised to consult with their teacher and counselor before electing advanced level courses.

The Sterling High School curriculum is designed to provide sufficient flexibility in a student's program of studies to fit his or her interests and needs. Certain subjects are also required at each grade level because of their value and fundamental importance to the student's health, civic and social competence, and career or educational goals.

Right of Administrative Review

The Sterling High School District Board of Education reserves the right to amend, add, or cancel any course or program listed in this guide at its discretion due to low enrollment, staffing concerns, or for other unforeseen reasons it deems in the best interest of the school district.

Graduation and College Preparation Guidelines

In order to graduate from Sterling High School, students must earn 130 overall credits including the required courses indicated in the chart below.

Graduation Requirements (NJDOE and Sterling High School)		
<i>Subject Area/Course</i>	<i>Minimum Credits</i>	<i>Additional Information</i>
English Language Arts	20	English I-IV
Mathematics	15	Must include Algebra I, Geometry, and a third year of math
Health and Physical Education	20	
Science	15	Life Science, Physical Science and Earth/Space science standards
Visual/Performing Arts	5	See page 5 for a list of approved courses
Social Studies	15	Must include 5 credits of World History and 10 credits of US History
21st Century Life and Careers	5	See page 5 for list of approved courses
World Language	5	Students planning to attend college are required to complete 10 credits of World Language
Financial, Economic, Business, and Entrepreneurial Literacy	2.5	Personal Finance
English Composition and Digital Literacy	2.5 each	Sterling required course in 9 th grade

Students must demonstrate proficiency in both English Language Arts/Literacy AND Mathematics by meeting the criteria outlined at [State of New Jersey Graduation Assessment Criteria](#).

Elective Requirements

The courses listed below fulfill the graduation requirement for Visual & Performing Arts and 21st Century Life and Careers. Students must complete at least five credits from each column to satisfy these requirements.

21st Century Life and Careers	
Business & Personal Law Child Development College and Career Readiness Computer Science Culinary Arts I, II, III Digital Applications Dynamics of Healthcare Early Childhood I, II, III Early Childhood Seminar Entrepreneurship Financial Accounting I, II, III Introduction to Digital Photography Introduction to Engineering Job Shadowing Knightline News	Law and Public Safety I, II, Seminar Leadership Development Living Skills Medical Terminology Naval Science I-IV Public Speaking and Presentation Radio Broadcasting I, II, III Radio Broadcasting Seminar Robotics I, II Senior Experience Social Media Technology Sports Broadcasting Sports and Entertainment Marketing Television Production I, II, III Woodworking
Visual & Performing Arts	
AP Music Theory Art I, II, III, or IV Career Art Seminar Chorus Concert Band Introduction to Digital Photography Introduction to Instrumental Music Guitar I MD Art MD Music Multi-Media Graphic Design I, II, III, IV Music Appreciation Music Technology Music Theater Music Theory Music Workshop Piano I, II Radio I, II, III Television Production I, II, III	

Student Academic Progress

Grade	ELA 4 years	Math 3 years	Science 3 years	Social Studies WH, USI, USII	World Lang. 1 year	Physical Ed. & Health 4 years	Visual/ Performing Art 5 credits	21 st Century 5 credits	Fin. Lit	Other Electives	Total Credits
9											
10											
11											
12											
Units	/4	/3	/3	/3	/1	PE: /4 Health: /4	/5 credits	/5 credits	/2.5 credits		/130 credits

* Sterling students will also take English Composition and Digital Applications during their 9th grade year

* 4-year colleges will require a minimum of 16 academic courses as well as 2 years of a World Language

Advanced Placement/High School Plus/Dual Credit Opportunities

Bridging the gap between high school and college is a priority at Sterling High School. To this end, the district actively and continually seeks to increase the number of courses it offers in partnership with post-secondary institutions, such as Camden County College and Rutgers University. Students who meet academic requirements may earn college credit at a reduced fee. The following courses are currently offered.

Anatomy & Physiology I, II Biology AP Calculus AP Chemistry AP Dynamics of Health Care Early Childhood Ed I Early Childhood Ed II Early Childhood Ed III Early Childhood Seminar English III AP English IV AP Financial Accounting II French III French IV	Holocaust & Genocide Studies Italian III Italian IV Medical Math Medical Terminology Music Theory AP Spanish III Spanish IV Spanish V Television Production II US History II AP US History II Honors US Government & Politics AP World Civilization Honors
---	---

DESCRIPTION OF ACADEMIC LEVELS

Advanced Placement: AP courses afford students the opportunity to pursue college level studies while still in high school. Students must meet strict course prerequisites and are required to take the AP exam. Students scoring a 4 or 5 will be reimbursed for the cost of the exam. Students qualifying for free and reduced lunch may apply for exam fee assistance.

Honors: An accelerated academic program for qualified students who excel in the subject and are pursuing a course of college preparation. Initial placement and subsequent academic performance requisites must be met for students to enroll in honors classes.

College Prep A: An academic program following the content specific standards designed to challenge the motivated student. This course will prepare students for a college program.

College Prep B: An academic program following the content specific standards that will utilize strategies that address the needs of diverse learners. This course will prepare students for a college program.

College Prep B/Inclusion: An academic program following the content specific standards that will utilize strategies, including an additional Individual Education staff member, to address the needs of diverse learners. This course will prepare students for a college program.

Resource Center: This academic program is designed for the Individual Education student who has demonstrated need for small group instruction.

SPECIAL EDUCATION

The administration and staff of Sterling High School recognize that students with disabilities require special programs based on their abilities, interests, and needs. It is our conviction that all students should be provided with the experiences necessary to develop their intellectual, vocational, and social competencies so that they may become productive and independent citizens. Our special education staff provides programs for classified students which support the diagnostic prescriptions of the Youth Study Team as reflected in Individualized Educational Plans (IEPs). Resource Center programs are offered in Language Arts, Mathematics, Science, and Social Studies. In-class support teachers help classified students to be successful in the general education environment. Self-Contained classes are offered for students with more significant disabilities. Study Skills instruction is an option as a support for students with disabilities who are mainstreamed in any core content area; assistance is provided with classwork, homework, organizational skills, and test preparation. Whenever possible, students with disabilities are mainstreamed to promote their academic, social, and emotional growth. Every effort is made to educate all students in the least restrictive and most appropriate environment.

BUSINESS

Business and Personal Law: Grades 9, 10, 11, 12 (2.5 credits)

This course introduces students to the basic principles of our legal system as it applies to business, ethics, and individual responsibility. Liability, contract and sales law, torts, consumer rights, and legal obligations will be emphasized. Students will experience the drama of the law through the study of actual cases and participation in a mock trial.

College and Career Readiness: Grade 12 (2.5 credits)

College and Career Readiness is a course created to provide post-secondary options and career guidance to all students. This course is required for senior experience participants but open to all students. The course will focus on workplace readiness skills, ethics, problem solving, personal financial preparation for college, money management, career exploration and experiential reflection from actual work experience. Participants will study and research all post-secondary choices and complete self exploration projects to determine what path they want to take after high school. In addition, students will learn about and research scholarship, financial aid and grant opportunities for post-secondary learning.

Entrepreneurship: Grades 10, 11, 12 (5 credits)

Entrepreneurship prepares students for the operation of a business in our free enterprise system through the hands-on use of computer software and simulation. Topics include types of ownership, developing a business plan, risk management, purchasing, advertising, and human resource management, as well as legal and social responsibility.

Financial Accounting I: Grades 10, 11, 12 (5 credits)

Financial Accounting I introduces students to the principles of accounting and finance through an understanding of the accounting cycle and preparing financial statements. Emphasizing manual accounting and finance procedures, the course culminates with the preparation of a business simulation in which the student demonstrates thorough knowledge of the accounting cycle.

Financial Accounting II: Grades 10, 11, 12 (5 credits)

Prerequisite: Financial Accounting I

Financial Accounting II provides the student with the skills required for initial employment as a bookkeeper, background knowledge for an accounting career, and expands upon the principles of finance. Computer software applications and hands-on application of industry practices are emphasized.

Personal Finance: Grades 10, 11, 12 (2.5 credits)

Personal Finance develops lifetime financial management skills. Emphasis will be given to career decisions, money and credit management, financial security, and financial planning. Topics will include budgeting, banking, credit, investments, and taxes. Students will have the opportunity to develop an investment portfolio. This course is required for graduation.

Senior Experience: Grade 12 (10-20 credits)

Senior Experience partners career readiness with structured learning experiences (SLE). Seniors will gain valuable life skills and work experience from professionals in the career field of their choice. Students will participate in either an unpaid job shadowing, volunteer, or internship experience or paid part time employment during the school day to accomplish learning objectives through the assistance of job placement. Workplace Evaluation takes place a minimum of every tenth (10th) work day for 30 minutes. Students are also responsible for completing various in-class learning activities that directly relate to their experience and develop career readiness skills. Participants will be responsible for their own transportation to and from work sites. The course will culminate with a final presentation of the overall experience. This presentation will showcase the skills students acquired during their structured learning experience in the workplace.

Sports and Entertainment Marketing: Grades 10, 11, 12 (5 credits)

This course is designed for the student who plans to pursue a college degree in business management and/or marketing. This course will provide the necessary information and opportunities for students interested in the sports, marketing, and business management fields. Students will develop a thorough understanding of the marketing concepts and theories that apply to sports and sporting events, basic marketing, target marketing, sponsorship, event marketing, promotions, sponsorship proposals, sports marketing plans, event evaluation, management, leadership, public relations,

product management, contracts and negotiations, finance, planning and executing the operation of a business or sports event.

Study Skills - Individual Education: Grades 9, 10, 11, 12 (5 credits)

This individual education level course is designed to help students develop effective study skills imperative for students to have a successful learning experience. This course will help to prepare the students to set goals, manage time, use effective note taking strategies, apply listening skills, study for tests, and research and present written and oral reports. Students will work individually with the teacher in developing strategies that are most effective for their classes.

COMMUNICATIONS TECHNOLOGY

Digital Applications: Grades 9 (2.5 credits)

Digital Applications will introduce students to the use of basic computer skills and will develop mastery of the computer keyboard. This course exposes students to various Microsoft programs, including Word, Excel, PowerPoint, Teams, Outlook, etc. Students will be able to perform computer operations commonly used at Sterling High School, as well as in many careers and personal lives.

Knightline News: Grades 9, 10, 11, 12 (2.5 credits)

In this course, students will serve as producers, technical directors, graphics designers, audio operators, camera operators, teleprompter operators, floor managers and on-air talent for the production of Knightline News, feature stories, and additional broadcasts. Knightline News provides practical experience to any student interested in pursuing a career in news production.

Radio Broadcasting I: Grades 9, 10, 11, 12 (2.5 credits)

This course is designed to provide students with a basic overview of the operating practices at modern day radio stations. Through daily production sessions, writing public service announcements and reading commercial copy, students will be exposed to general radio operational practices.

Radio Broadcasting II: Grades 10, 11, 12 (5 credits)

Prerequisite: Radio Broadcasting I

Radio Broadcasting II builds upon skills acquired in Radio Broadcasting I. Advanced show production, including actual radio commentary, will be the function of this course.

Radio Broadcasting III: Grades 10, 11, 12 (5 credits)

Prerequisite: Radio Broadcasting II

Radio Broadcasting III builds upon the skills developed in Radio Broadcasting II to a level of practical mastery in application. This involves the production of radio segments, features, programming and station operations management.

Sports Broadcasting: Grades 9, 10, 11, 12 (5 credits)

This course teaches students how to produce live Sterling athletic broadcasts in conjunction with Sterling TV-19 and Sterling Radio. Students will work behind the scenes and live on the air. Students will be required to work Channel 19 events outside the school day. They will learn the fundamentals of play-by-play and color commentary, as well as pre-production and post-production work including camera, graphics, audio, and replay. Students will compile and distribute statistics needed for each broadcast and promote event broadcasts on various social media platforms. Highlight packages and specialty shows will be recorded in the studio and featured on a weekly basis. Existing sports knowledge is not required, however would be helpful in day-to-day activities.

Television Production I: Grades 9,10,11,12 (2.5 credits)

This course provides the foundation and basics of television production. Introduction to scripting and storyboarding, camera operations and shooting techniques, audio acquisition, editing, and graphics construction are all covered. Students will be required to work either directly on our daily morning news broadcast or on various Channel 19 productions to provide practical work experience.

Television Production II: Grades 10, 11, 12 (5 credits)

Prerequisite: Television Production I

This course expands upon all of the elements of television production that students were exposed to in Television Production I, including scripting and storyboarding, camcorder shot acquisition and composition, audio acquisition, television computer graphic design, non-linear video editing, and television studio news production. Projects include movie trailers, public service announcements, product commercials and music videos. Students will be required to work either directly on our daily morning news broadcast, or on various Channel 19 productions to provide practical work experience. This course will introduce students to various career opportunities in television production through these hands-on projects and activities.

Television Production III: Grades 10, 11, 12 (5 credits)

Prerequisite: Television Production II

Students taking this course must successfully complete Television Production II and have time outside of school to devote to coverage of school events and class projects. Requirements of the students will include the design and construction of scripts and storyboards for Channel 19 productions.

ENGINEERING

Introduction to Engineering: Grades 9, 10, 11, 12 (5 credits)

This course is an introduction to the field of engineering. Students will be presented with problem solving techniques, analytical tools, design processes, and ethical concepts and responsibilities of a being an engineer. Working in collaborative teams, students will apply knowledge of the sciences to hands-on engineering projects. A student-researched case study on a technology will allow students to examine the impacts of technology on an individual, society & the environment.

Robotics I: Grades 9, 10, 11, 12 (5 credits)

This lab-based course is an introduction to mechanical design & robotics. Using VEX EDR robotics hardware, students work in collaborative teams to design & build robots to complete given tasks. Topics will include engineering processes, VEX hardware & components, mechanical advantage, drivetrain design & systems integration. Although not required, students are encouraged to take Introduction to engineering prior to this course.

Robotics II: Grades 10, 11, 12 (5 credits)

Prerequisite: Engineering Robotics I

This lab-based course builds upon the foundation of robotic systems gained in Robotics I. Students will be presented with more rigorous problems, culminating in a sport-style competition against their peers at the end of the semester. Additional topics include automation, sensors & VEX Coding studio. Although not required, students are strongly encouraged to join our Robotics club.

Woodworking: Grades 9, 10, 11, 12 (5 credits)

Woodworking implements Maplewood Woodshop lesson plans that align with national standards, bringing the classroom to life. Students will learn STEM concepts and other curriculum in an interesting and engaging way! Maple Woodshop primarily teaches life skills like confidence, grit, problem solving, and more. Course lessons will stay with students throughout life as they face new challenges.

ENGLISH

African American Literature: Grades 9,10, 11, 12 (2.5 credits)

African American Literature offers students a broad overview of the body of published work by African American authors from the mid-eighteenth century to the present time. The course features prominent historical figures, prize-winning poets, and well-known and highly respected writers. The course focuses on selections describing not only the struggle for equality from the time of slavery to the modern day, but also the universal themes of relationships and self-esteem themes that speak volumes to all people.

Creative Writing: Grades 9, 10, 11, 12 (2.5 credits)

This course should be a natural selection for those who enjoy writing. It will provide expanded and extensive opportunity to compose a wide variety of pieces using technology as a tool. Students will learn how to use appropriate figures of speech, improve diction, and achieve a variety of sentence structure. Opportunities to explore different writing forms (the article, poem, script, and short story) will be provided. Students will also learn to write with different

voices, use different techniques (e.g. irony, satire, dialect), combine graphics with text, and prepare material for publication. Students will be encouraged to submit writing to local and national contents. Due to the flexible nature of this curriculum, students may select this course more than once.

English I Honors, College Prep A, B, RC, SC: Grade 9 (5 credits)

The English program has been organized around seven major goals that constitute the core curriculum. A sequential set of minimum student proficiencies has been adopted at each grade level. In grade 9, there is an emphasis on basic and critical thinking skills, reading comprehension, grammar and composition, vocabulary development, literature, writing and study skills. Many of the activities involve skills in decision-making, negotiating and problem-solving.

English II Honors, College Prep A, B, RC, SC: Grade 10 (5 credits)

The English program has been organized around seven major goals that constitute the core curriculum. A sequential set of minimum student proficiencies has been adopted at each grade level. In grade 10, there is a continued emphasis on basic and critical thinking skills, reading comprehension, grammar and composition, vocabulary development, literature, writing and study skills. Many of the activities involve skills in decision-making, negotiating and problem-solving. The literature in this course focuses primarily on American writers.

English III Honors, College Prep A, B, RC, SC: Grade 11 (5 credits)

The English program has been organized around seven major goals that constitute the core curriculum. A sequential set of minimum student proficiencies has been adopted at each grade level. In Grade 11, there is a continued emphasis on basic and critical thinking skills, reading comprehension, grammar and composition, vocabulary development, literature, writing and study skills. Many of the activities involve skills in decision-making, negotiating and problem-solving. The literature will focus on English writers.

English III AP, Language and Composition: Grade 11 (10 credits)

The Advanced Placement course provide students the opportunity to pursue college level studies while still in high school and to attempt to qualify for advanced standing and credit, or one of these, upon entering college. The course consists of intensive reading of world literature, development of advanced critical writing skills, review of grammar and usage, and enlargement of vocabulary, both from readings and through prepared lists of words for study and testing.

English IV Honors, College Prep A, B, RC, SC: Grade 12 (5 credits)

This course is designed to refine and extend the skills taught in the previous three years. Students are expected to show a degree of independence in reading, writing, listening speaking, studying and viewing. The literature program will focus on selections from world literature. The student will comprehend factual material, interpret figurative expressions, write logical, well-developed, grammatically correct essays of various purposes for a variety of audiences, speak clearly and effectively, listen attentively, view wisely, and acquire a broadened vocabulary. The student will also use a variety of technologies as tools for learning and will use language arts skills for decision making, negotiating and problem solving.

English IV AP, Literature and Composition: Grade 12 (10 credits)

This course provides students the opportunity to attempt to qualify for advanced standing and credit, or one of these, upon entering college. The course consists of intensive reading of assigned works of world literature, development of advanced critical writing skills, review of grammar and usage, and expansion of vocabulary, both from readings and through prepared lists of words for study and testing.

English SLD: Grades 9-12 (10 credits)

English CPB/ELL: Grades 9, 10, 11, 12 (5 credits)

English College Prep/ELS Beginners, ELS Intermediate: Grades 9, 10, 11, 12 (2.5 credits)

Prerequisite: Student qualifies for English Language Services

This course is aligned with its mainstreamed counterpart and provides modifications to accommodate the needs of beginning and intermediate level English Language Learners. The focus is on improving student reading comprehension and writing for specific purposes. Students will also take the ACCESS and MAC II tests as indicators

of his or her progressive acquisition of the English language. Computer software programs, targeted remedial services, and highly qualified instructional personnel provide students with a set of minimum student proficiencies

English Composition: Grade 9 (2.5 credits)

English Composition is a required course beginning with the class of 2021. This class will focus on reading comprehension, writing, and research. Students will read and analyze informational, literary, and non-fiction texts. They will be able to identify main ideas and supporting evidence. Students will become familiar with Sterling High School's writing policy and learn the research skills necessary to write quality papers.

English Portfolio Appeals: Grade 12 (2.5 credits)

This course will build on English Language Arts concepts, with an emphasis on comprehension and writing. This course will provide students with tasks that require them demonstrate proficiency in understanding literature and informational text, as well as writing informational, argumentative, and narrative essays. Students will become familiar with the NJSL- Assessment rubric.

Independent Reading and Literature: Grades 9, 10, 11, 12 (2.5 credits)

This course provides students the opportunity to explore a variety of genres, categories, techniques, media, and themes in literature and film consistent with individual interest, as well as academic and career goals. Guided by a core set of reading, writing, speaking, and listening objectives, classroom teacher and student determine independent titles, literature, and media in a project-based learning environment. Due to the flexible nature of this curriculum, students may select this course more than once.

Journalism: Grades 9, 10, 11, 12 (2.5 credits)

This course is intended to offer students an opportunity to learn the basic principles of American journalism. Besides a foundation in the origin of the newspaper, students will learn the principles of balance, variety, and contrast. They will also learn the major types of leads, primary varieties of news articles, and the basic principles of layout and design, including the differences between streamlines, modular, and vertical formats. Due to the flexible nature of this curriculum, students may select this course more than once.

Popular Fiction: Text and Film: Grades 9, 10, 11, 12 (2.5 credits)

This course seeks to discuss the four subgenres of popular fiction: mystery-detective, romance-adventure, gothic-horror, and science fiction. Students view film adaptations of the texts and explore the works as both literature and film-media. Recommended texts include *The War of the Worlds* and *Fahrenheit 451*.

Public Speaking and Presentation: Grades 9, 10, 11, 12 (2.5 credits)

Public speaking has a direct impact on a student's academic, social, and professional success. This course is intended to offer students an opportunity to learn the basic principles of public speaking and presentation skills. Students will be introduced to a variety of speech types, research for speech writing, and techniques to overcome the anxieties associated with public speaking. There will be a focus on public speaking techniques to assist students in the 21st Century.

SAT/PSAT Prep: Grades 9, 10, 11, 12 (2.5 credits)

This course is offered during access and provides students the opportunity to gain essential skills, knowledge, and strategies students will need to improve success on the SAT and PSAT. Students may select this course more than once and is offered in both language arts and mathematics.

Silver Screen and the American Image: Grades 9, 10, 11, 12 (2.5 credits)

This course uses film to stimulate media awareness and critical viewing skills and also as a means of turning "media-passive" students into "media-active" students who will see the viewing of film as a lesson in critical analysis. Students probe the nature of communication: why people need to communicate and how they do it. Students examine television and film to assess the media's influence in daily life. As critical viewers, they investigate techniques used to sway decisions, and evaluate how public and individual opinions are formed.

FAMILY AND CONSUMER SCIENCE

Sterling High School's Early Childhood Education program will prepare students to learn to meet the physical, social, emotional, and intellectual needs of preschool age children through the design and delivery of age-appropriate activities. This program is composed of courses that emphasize contemporary theory in Early Childhood Education as well as application skills demonstrated through effective lesson planning and interaction in the preschool lab. The objective of this program is to prepare graduates to continue their education by pursuing their CDA certification and college degrees in Early Childhood Education or Elementary Education. Several courses in this program are articulated with Camden County College for dual credit.

Child Development: Grades 9, 10, 11, 12 (2.5 credits)

Child Development will help students gain an insight and understanding of the developmental milestones of preschool age children. It will show the students the responsibility involved in meeting the physical, cognitive and social/emotional needs of children. The class includes a preschool lab where the students are responsible for specific tasks for each child on a daily basis. During their term the students will complete lesson plans, journals, a variety of worksheets, and a milestone project.

Early Childhood Education I – Materials and Methods: Grades 9, 10, 11, 12 (5 credits)

Prerequisite: Child Development or Teacher recommendation

Course provides content on the planning, preparation, and delivery of a developmentally appropriate curriculum for young children. This course presents a historical perspective on how the child development movement impacted early childhood education. Students will be introduced to researched-based early childhood curriculum models. Students will explore the reasons for and components of developmentally appropriate curriculum. Course content will highlight how to create and assess developmentally appropriate environments and learning experiences. Technology and trends in the early learning environment will be incorporated throughout the course.

Early Childhood Education II – Childrens' Health and Well Being: Grades 10, 11, 12 (5 credits)

Prerequisites: Child Development, Early Childhood Education I

Course explores contemporary health, safety and nutrition needs of the infant through to the school-aged child. Students will explore current research on topics such as childhood obesity, food allergies, children's mental health issues, the impact of the environment on health and the role of acute and chronic illness on the development of the young child. Various childhood illnesses will be explored and addressed. Participants will be introduced to caring for children with special medical and health needs. Course participants will learn how to apply policies and procedures to effectively promote safe, secure, nurturing, and healthy learning space for all young learners.

Early Childhood Education III – Creative Experiences: Grades 10, 11, 12 (5 credits)

Prerequisites: Child Development, Early Childhood Education I & II.

The course provides an overview of curriculum design, resource development, portfolio systems, and the integration of developmentally appropriate creative experiences in the early childhood learning classroom. Course participants will further explore the major theoretical orientations that have influenced early childhood development models and the learning theories identified by social scientists such as Piaget, Erikson, and Montessori. Course learning opportunities for participants are designed to promote increased understanding of the physical, cognitive, social and emotional development of young children through observation, recording, and effective assessment. Course introduces students to creative development in early childhood learning. Course participants will explore issues of creative expression, art and the developing child, integrating art expression across the curriculum, and strategies to improve a child's artistic experience. Stages of aesthetic and artistic development will be addressed. Topics will include cultural diversity and adaptations for special needs.

Early Childhood Education Seminar: Grades 11, 12 (5 credits)

The teacher's role in providing an environment that fosters the optimum growth and development of the individual child is examined. This is a capstone course with a structured learning experience of at least thirty laboratory hours in the group care of children is required. Portfolio construction and evaluation for CDA required.

Culinary Arts I: Grades 9, 10, 11, 12 (2.5 credits)

Culinary Arts/Foods I provides students with clear, concise information on nutritional requirements and how to fulfill them sensibly. It includes basic preparation of individual food products using simple recipes and techniques. Hands-on experience and testing are a routine part of the curriculum.

Culinary Arts II: Grades 10, 11, 12 (2.5 credits)

Prerequisite: Culinary Arts I

This course focuses on advanced food preparation techniques with emphasis on nutrition, meal planning, cost comparison, American Regional cooking and use of cookbooks and computers for recipe selection. Laboratory situations are provided for hands-on experience. Theory, testing, and use of the media center are a routine part of the curriculum.

Culinary Arts III: Grades 11, 12 (5 credits)

Prerequisite: Culinary Arts II

This course emphasizes the application of catering management and production principles. Food preparation, serving, and managing banquets will be emphasized. Students will be required to demonstrate their proficiency by creating menus, food production, serving, and managing on-premise banquets. Institutional food and beverage operational controls are taught in an effort to help the student learn about standards of quality, service, and presentation.

HEALTH AND PHYSICAL EDUCATION

First Aid, Safety, and Prevention: Grades 9, 10, 11, 12 (2.5 credits)

First aid helps to develop an awareness of potential accident situations and the emergency care needed to aid victims of accidents or sudden illnesses. This knowledge and skill often mean the difference between life and death, temporary and permanent disability, and rapid recovery and long hospitalization. Successful completion of this course will lead to a first aid course completion card issued by the American Red Cross. This course also teaches some basic preventative taping techniques used to prevent injury.

Health I: Grade 9 (1.25 credits)

This course aims to give students the knowledge and skills to achieve and maintain physical, social, and emotional health. This curriculum will encourage students to take responsibility for their own actions by acting conscientiously and establishing positive health practices to support and enhance lifetime wellness. The students will obtain, interpret, and become acquainted with basic health information and services to use in a positive way to enhance life skills. A demonstration of knowledge and learned skills by the student should contribute to a better quality of life for the individual, the family, and the community.

Health II: Grade 10 (1.25 credits)

This course is designed to provide the beginning driver with a sound foundation for a lifetime of safe, responsible, and efficient motor vehicle operation. The New Jersey State Drivers Education written test will be given at the end of each course. In order to be eligible to take the test, New Jersey mandates that students must successfully complete 30 hours of Health II.

Health III: Grade 11 (1.25 credits)

This course aims to give students the knowledge and skills to achieve and maintain physical, social, and emotional health. This curriculum will encourage students to take responsibility for their own actions by acting conscientiously and establishing positive health practices to support and enhance lifetime wellness. The students will obtain, interpret, and become acquainted with basic health information and services to use in a positive way to enhance life skills. A demonstration of knowledge and learned skills by the student should contribute to a better quality of life for the individual, the family, and the community.

Health IV: Grade 12 (1.25 credits)

This course aims to give students the knowledge and skills to achieve and maintain physical, social, and emotional health. This curriculum will encourage students to take responsibility for their own actions by acting conscientiously and establishing positive health practices to support and enhance lifetime wellness. The students will obtain, interpret, and become acquainted with basic health information and services to use in a positive way to enhance life skills. A demonstration of knowledge and learned skills by the student should contribute to a better quality of life for the individual, the family, and the community.

Introduction to Yoga and Pilates: Grades 9,10,11,12 (2.5 credits)

This class offers knowledge and skills to keep fit for life. It teaches safe performance of movement and exercise in a progressive approach and offers an opportunity to improve and/or maintain a high level of fitness through application of conditioning principles. In particular, this class offers a basic understanding of the concepts of alignment, centering, breathing, stabilization, mobilization, and balance. It can be modified to various fitness levels; each student will work at her/his appropriate level. Due to the flexible nature of this curriculum, students may select this course more than once.

Nutrition and Fitness: Grades 9, 10, 11, 12 (2.5 credits)

This course is designed for students who are interested in maintaining a healthy lifestyle through proper diet and exercise. Students will learn how to develop and maintain a plan to achieve their personal fitness goals. Students will combine weight training, cardiovascular conditioning and proper diet to pursue their personal fitness goals in this course.

Physical Education I: Grade 9 (3.75 credits)

This course introduces the basic foundations of fitness using a variety of movement education activities, trust building activities with a concentrated focus on physical fitness, physical health, and wellness concepts. Specific knowledge of skills and concepts will be evaluated by various assessment instruments. The emphasis will be focused on the continued need to be fit for life.

Physical Education II: Grade 10 (3.75 credits)

This course provides a continuation of skills in a variety of individual and team sports, and movement education. There will be a focus on previously taught skills needed to perform a variety of different team sports based on similar lead up concepts. It will also focus on physical fitness and cardiovascular conditioning by the means of various skills testing methods, instruments, written tests and alternate forms of assessment based on the activities taught.

Physical Education III: Grade 11 (3.75 credits)

This course will promote physical, social and emotional health through a variety of social, recreational, and educational experiences. Physical Education III will combine the knowledge and skills taught the previous two years in competitive and cooperative team activities. Instruction in lifetime and individual activities will be taught to provide emotional outlets, social interactions, and a basic knowledge of physical fitness and its importance in general wellness.

Physical Education IV: Grade 12 (3.75 credits)

This course will foster physical, social, and emotional health in each individual by providing a variety of social, recreational, and cultural experiences. Senior physical education will combine the knowledge and skills taught the previous three years in competitive and cooperative team activities as well as instruction in new life-long and individual activities which will provide emotional outlets, social interactions, and a basic knowledge of physical fitness and its importance in overall wellness.

PE Wellness: Grades 9, 10, 11, 12 (2.5 credits)

This course stresses the importance of health and exercise, through daily use of the fitness center. Students will participate in a weight and resistance training program to increase their strength utilizing weight stacks, plates or dumbbells and elastic/hydraulic resistance to oppose muscle contraction. Students will learn the benefits of strength training, and development of a sport-specific fitness program to meet personal goals. Basic fitness units will be classified in four main components: Strength, Speed, Stamina and Flexibility. Additionally, nine other components that comprise the definition of fitness: Strength, Power, Agility, Balance, Flexibility, Local Muscle Endurance, Strength Endurance and Co-ordination. Cardiac Respiratory qualities will be key in the development of fitness components in the conditioning program.

Rhythm and Timing Dance: Grades 9, 10, 11, 12 (2.5 credits)

This Course is designed to expose the student to various styles of dance, including Salsa, Bachata, Country Line Dance, and Ball Room Dancing. Other types of dances may be introduced for basic knowledge. Students will also learn a foundation of timing, rhythm, and syncopation as it pertains to music in general, as it associates with the various dance techniques.

Strength and Conditioning: Grades 9, 10, 11, 12 (2.5 credits)

This course reinforces the proper guidelines, principles, and techniques of Olympic weight lifting at an advanced level. During this course the students will have the opportunity to increase their flexibility, cardiovascular endurance, and muscular strength through weight training, calisthenics, and plyometric activities. Students will improve their overall fitness through individualized and sport specific programs. Progress will be evaluated through pre and post assessments. Due to the flexible nature of this curriculum, students may select this course more than once.

HEALTH SCIENCE

This rigorous academic program revolves around health-related themes in partnership with Rutgers University. The objective of this program is to prepare graduates for a wide variety of health-related areas while providing an opportunity to earn college credit in the field of Allied Health and Health Science.

Dynamics of Health Care: Grade 10 (10 credits)

Prerequisites: Biology Honors or A/B in Biology CPA

In this course, students will learn about the environment and components of the health care field of employment. Topics will include ethics, professional behavior, decision making, problem solving, management, infection control, safety on the job, health careers, stress, time management skills, the history of health care, communication, getting a job and job satisfaction. Students will participate in varied activities and projects to help understand and implement the importance of teamwork and interpersonal relationships throughout their careers. This course will serve as a foundation for the students in exploring the fundamentals of health care in today's society.

Anatomy and Physiology, I Honors: Grades 11, 12 (5 credits)

Prerequisite: Dynamics of Health Care or Biology Honors or A/B in Biology CPA

Anatomy and Physiology is the study of the structure and function of the human body. This course follows a sequential development of the major body systems in an organized and structured curriculum. The course is designed to give the students a selective overview of human anatomical structure and an analysis of human physiological principles. Labs will include slide work, dissection of various animals and studies of the human skeleton. The course will also use computer simulated dissection.

Anatomy and Physiology II Honors: Grade 12 (5 credits)

Prerequisite: Dynamics of Health Care or Biology Honors or A/B in Biology CPA Anatomy and Physiology is the study of the structure and function of the human body. This course follows a sequential development of the major body systems in an organized and structured curriculum. The course is designed to give the students a selective overview of human anatomical structure and an analysis of human physiological principles. Labs will include slide work, dissection of various animals and studies of the human skeleton. The course will also use computer simulated dissection. Students that pass the course and a Rutgers exam earn 4 college credits.

Medical Math: Grades 10, 11, 12 (5 credits)

Prerequisite: Dynamics of Health Care

This course will provide a review of basic mathematical calculations and will instruct the learner on how to convert equivalents from one system to another and accurately mix and measure drugs. Emphasis will be placed on how these techniques are used in the administration of medications for patient use.

Medical Terminology: Grades 10, 11, 12 (5 credits)

Prerequisite: Dynamics of Health Care

Medical Terminology is the study of words that pertain to body systems, anatomy, physiology, medical processes and procedures and a variety of diseases. It provides specialized language for the health care team, enabling health care workers to communicate in an accurate, articulate, and concise manner. This course is designed to give the students a comprehensive knowledge of word construction, definition and use of terms related to all areas of medical science. The course includes but is not limited to terms related to anatomy of the human body, functions of health and disease, and the use of language in processing medical/dental records and claim forms.

MATHEMATICS

Algebra I College Prep A or B, RC, SC: Grade 9 (5 credits)

This course is designed to provide the fundamental algebraic skills required for further study in mathematics and science. It stresses basic algebraic manipulations, solutions of linear equations, factoring, concepts and applications of slope and problem-solving techniques. Solution of word problems and techniques of graphing linear equations and inequalities in the Cartesian plane are included. Additional topics include the solution of systems of linear equations and simple quadratic equations with their applications.

Algebra II Honors, College Prep A or B, RC, SC,: Grades 10, 11 (5 credits)

Prerequisite: Algebra I

This course reinforces the concepts taught in Algebra I. Linear, quadratic and other polynomial functions are studied and exponential and logarithmic functions are introduced. Systems of linear equations, matrices, and inequalities are discussed as well as quadratic functions and systems. The use and application of exponents and radicals is stressed and all concepts are reinforced through math modeling of real word applications.

Algebra III and Trigonometry College Prep: Grades 11, 12 (5 credits)

Prerequisite: Algebra II

This course is designed to prepare the student for further study in mathematics and science. Major topics are the review of algebra, functions, relations, mathematical induction, binomial expansion, exponential and logarithmic functions, and basic laws of probability. Students will be provided with the fundamentals of trigonometric manipulations, stressing the six trigonometric function values. It will prepare students for further work in electronics and other technical fields as well as provide the background for a basic course in calculus.

Calculus College Prep: Grade 12 (5 credits)

Prerequisite: Precalculus

This is a college level course in Calculus I and includes the study of limits, functions, differentiation, and integration as well as applications of the calculus. Calculus is recommended for all students planning to enter a four year college program.

Calculus AP: Grade 12 (10 credits)

Prerequisite: Honors PreCalculus

AP Calculus is a rigorous, college level Calculus course which builds on the concepts developed in Pre-Calculus Honors and introduces concepts necessary for the successful completion of the Calculus AB curriculum on the AP examination. Students who meet academic requirements may earn college credits at a reduced rate.

Consumer Math RC, SLD, SC: Grades 9, 10, 11, 12 (5 credits)

This course prepares students for applications of mathematics in the real world. Students will be introduced to topics such as automobile expenses, banking records, credit purchasing, basic investments, housing, earning, and taxes. This course features examples in a problem-solving format that allows students to use mathematical skills in consumer situations.

Geometry Honors, College Prep A or B, RC, SC: Grades 9, 10 (5 credits)

Prerequisite: Algebra I

This course aims to teach concepts related to figures made of points, lines, surfaces, and solids. It provides opportunities for students to visualize and work with two- and three-dimensional figures. The nature of deductive and inductive reasoning is developed, and the nature of a formal proof is explored. Geometry Honors emphasizes conceptual understandings, multiple representations and connections, and the types of mathematical problem solving required for further work in mathematics and science, in addition to formal rigorous proofs.

Math Portfolio Appeals: Grade 12 (2.5 credits)

This course will build on Algebra and Geometry concepts, with an emphasis on practical applications. Any student intending to attend community college or a state college or university would benefit from this course. This course will provide students with tasks that require them demonstrate proficiency in core mathematical competencies. Topics will include number sense, equations, inequalities, quadratics, data analysis, geometry and measurement, and probability and statistics.

Pre-Algebra: Grade 9 (2.5 credits)

This course is designed for students that are at risk for not passing the Algebra I NJSLA (currently a graduation requirement). This course will provide a solid foundation for students to enter Algebra I. It will cover basic equations, basic graphing, and fractions.

Precalculus Honors and CPA: Grades 11, 12 (5 credits)

Prerequisite: Algebra II

This course is designed for junior and senior students who have excelled in mathematics and plan to continue the study of mathematics with a course in calculus. Topics will include trigonometric functions, exponential and logarithmic functions, relations and functions, solution of polynomial equations and the study of analytic geometry. Honors Precalculus is designed to unify and broaden the understanding of mathematical principles and concepts.

SAT/PSAT Prep: Grades 9, 10, 11, 12 (2.5 credits)

This course is offered during access and provides students the opportunity to gain essential skills, knowledge, and strategies students will need to improve success on the SAT and PSAT. Students may select this course more than once and is offered in both language arts and mathematics.

SLD Mathematics

NJROTC: NAVAL JUNIOR RESERVE OFFICER TRAINING CORPS

The NJROTC program is conducted at accredited secondary schools throughout the nation, by instructors who are retired Navy, Marine Corps, and Coast Guard Officers and enlisted personnel. The NJROTC curriculum emphasizes citizenship and leadership development, as well as our maritime heritage, the significance of sea power, and naval topics such as the fundamentals of naval operations, seamanship, navigation, and meteorology. Classroom instruction is augmented throughout the year by community service activities, drill competition, field meets, visits to naval activities, and military training.

Commander Naval Education and Training Command prescribe the courses for naval science for NJROTC units that comprise the 3 or 4 year curriculum. The naval science program is constructed to include three academic classroom sessions and two activity periods per week. The curriculum is based on 180 teaching days. Naval Science Instructors follow the established procedures of individual schools regarding examination requirements and course weighting.

➤ ELIGIBILITY REQUIREMENTS

1. In and attending a regular course of instruction in a grade 9 through 12 at the school hosting the unit.
2. Be physically qualified to participate fully in the physical education program of the host school.
3. Be selected by the NJROTC instructor with the approval of the school principal or his representative.
4. Maintain acceptable standards of conduct, academic achievement, and academic standing.
5. Comply with specified personal grooming standards.
6. Common sense and good judgment apply to the attainment of these standards. Standards will not be relaxed so as to reflect disgrace on the naval service.
7. Under the secondary school open enrollment policy, and when desired by the principal of the host school, students in grades 9-12 who are otherwise ineligible for regular NJROTC enrollment may enroll as special NJROTC cadets. Special NJROTC cadets may participate in school approved NJROTC activities, be called naval cadets, wear the uniform, participate as cadet officer, and go on field trips and orientation visits to military installations. Special NJROTC students may not, however, be counted with that number required to maintain an NJROTC unit. Any special equipment or additional staff that may be needed to instruct special NJROTC students is provided by the school.

Leadership Development: Grades 9, 10, 11, 12 (2.5 credits)

This course will emphasize skills such as goal setting, communication, and organization, along with the other skills it takes to be a good leader in your school and community. The structure of this class will consist of group activities, individual projects/goals, and the learning and practicing of leadership qualities/skills both as a group and as individuals. The focus of this class will be to give students the tools needed to become great leaders.

Naval Science I: Grades 9, 10, 11, 12 (5 credits)

This course introduces students to the meaning of citizenship, the elements of leadership, and the value of scholarship in attaining life goals. The course engenders a sound appreciation for the heritage and traditions of the United States. The course goal is to develop in each cadet a growing sense of pride in his or her organization, associates, and self. These elements are pursued at the fundamental level. The course content includes Introduction to the NJROTC program; Introduction to Leadership; Naval Ships Mission and Organization; The Nation, Navy, and the People in American Democracy; Maritime Geography; Seapower and Challenge; Naval History Through 1815; Introduction to Navigation and Military Time; Basic Seamanship; Oceanography; Health Education, First Aid, and Drug, Alcohol and Tobacco Abuse Prevention.

Naval Science II: Grades 9, 10, 11, 12 (5 credits)

This course builds on the general introduction provided in Naval Science I to further develop the traits of citizenship and leadership in cadets, introduce cadets to technical areas of naval science, and engender a deeper awareness of the vital importance of the world oceans to the continued well-being of the United States. The course content includes ongoing instruction in leadership theory, Naval Orientation and Career Planning; Citizenship in the United States and other countries; Naval History, Naval Ships and Shipboard Evolutions; Naval Weapons: Gunnery, Guided Missiles and Mines; Navigation Fundamentals and Rules of the Road; Small Boat Seamanship; Meteorology and Weather; and Survival Training and Orienteering.

Naval Science III: Grades 9, 10, 11, 12 (5 credits)

This course broadens the understanding of operative principles of military leadership, the concept and significance of teamwork, the intrinsic value of good order and discipline, the accomplishment of objectives, the fundamentals of American democracy, and expands their understanding of naval academic subjects. The course content includes ongoing instruction in leadership and discipline, Military Justice; Astronomy; International Law and the Law of the Sea; National Strategy; Sea Power and Naval Operations; Naval History through the Nuclear Age; Naval Intelligence and National Security; Maneuvering Board; Challenges of Future Navy Research; and Electricity and Naval Electronics.

Naval Science IV: Grades 9, 10, 11, 12 (5 credits)

This course is focused solely on development of practical leadership on both the individual and group levels. The intent is to assist the senior in understanding leadership and improving their leadership skills by putting them in positions of leadership, under supervision, then helping them analyze the reasons for their varying degrees of success throughout the year. Classroom activities include seminars, reading assignments, classroom presentations, and practical work with younger cadets. The course content includes extensive individual counseling and instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Cadets will also apply these principles when dealing with younger cadets in the areas of military drill and inspections, athletic events, and in other school activities.

Naval Science Company Quarters: Grades 9, 10, 11, 12 (5 credits)

This course is focused with the entire company. Students will practice all concepts of drill and company functions as a unit. This course will satisfy the Health & PE requirement for NJROTC students.

SCIENCE

Biology College Prep A or B, Honors, RC, SC: Grade 9 (5 Credits)

A laboratory course designed to teach biology from an ecological and biochemical approach. This course presents a logical and sequential development of topics and concepts considered basic to an introductory course. The course incorporates lecture, discussion sessions, laboratory investigations and demonstrations.

Biology AP: Grades 11, 12 (10 credits)

Prerequisites: Biology Honors or A in Biology CPA

This course is designed to be the equivalent of a college introductory biology course. It is geared for those academic students who are seeking careers in the scientific field. It differs from the traditional biology course in the range and depth of biological topics, the use of a college textbook, the advanced laboratory work and independent research. The course aims to provide students with the conceptual framework, factual knowledge and analytical skills needed to take the required Advanced Placement Test in Biology.

Chemistry College Prep A or B, Honors, SC: Grades 10 (5 credits)

Chemistry College Prep is an introductory laboratory-oriented course for the college bound student. The course will be geared to those students who need a good science background for college. It will offer the student a background in the area of inorganic chemistry with some references being made to organic chemistry and qualitative analysis. Honors Chemistry requires strong mathematical skills; a co/pre-requisite of Algebra II Honors is strongly recommended.

Chemistry AP: Grades 11, 12 Laboratory Science (10 credits)

Prerequisites: Chemistry Honors or an A in Chemistry CPA

This course provides students with a college-level foundation to support future advanced course work in Chemistry. Students will cultivate their understanding of chemistry through inquiry-based activities. They will explore topics such as atomic structure, chemical reactions, intermolecular forces, kinetics, thermodynamics, and equilibrium. Students will be required to take the College Board AP Chemistry test. *Offered on even years (18-19, 20-21, etc.)*

Environmental Science College Prep: Grades 11, 12 Laboratory Science (5 credits)

Environmental Science is a general science course which will focus on the Next Generation Earth and Space Science standards. Topics will include Earth's properties and processes, atmosphere and weather, solar system, stars, universe, and energy. This course will fulfill high school graduation requirements.

Genetics College Prep: Grades 11, 12 (2.5 credits)

This course provides the student with an opportunity to investigate the traditional principles of genetics, human heredity, molecular and cellular genetics at a level beyond the basic biology course. Students will also be introduced to many of the areas of genetics found in the news such as DNA fingerprinting, gene splicing, and cloning. This course encourages critical thinking, problem solving, research skills and scientific objectivity, as well as providing a solid foundation in the subject matter.

Hollywood Science: Grades 9-12 (2.5 credits)

Students will investigate science concepts depicted in movies and research or perform analytical experiments to prove or disprove how the movie/film/clip represents the science. The course will be student centered and project based.

Examples of the course content are:

Building and launching rockets, such as those in the movie October Sky

Planning and constructing a Rube Goldberg Machine, such as the devices in Home Alone

Researching environmental and weather effects, such as those in the film 2012

The course will use both full length movies and film clippings over the 9 week course.

Physics College Prep and Honors: Grades 11, 12 Laboratory Science (5 credits)

Physics is a blend of a traditional physics curriculum and a technologically based physics curriculum. It should serve students who are entering a four year college program as well as scientifically oriented students entering a two year technological program. Traditional topics will be blended with a theme from the four major systems in Physics (Mechanical, Fluid, Electrical, and Thermal). Emphasis will be placed equally on laboratory, technical (computer) and academic skills. Honors Physics requires strong mathematical skills; a co/pre-requisite of PreCalculus is strongly recommended.

Science Olympiad: Grades 9, 10, 11, 12

This course prepares students for a rigorous academic competition in a variety of areas and aspects of science. Events could include knowledge of specific topics such as anatomy, meteorology or reach for the stars, hands-on activities such as crime busters, experimental design, and write it-do it and construction based events such as tower building, Rube Goldberg machines, and scrambler. This is an academic based course and students may participate in the regional tournament. Be prepared to apply science knowledge, work on problem solving skills and grow as a scientist.

Zoology: Grades 10, 11, 12

This course serves as introduction to the animal kingdom, beginning with the earliest forms moving into current species. In addition to the species themselves, the course covers their evolution, ecology, natural history, anatomy, physiology, and interactions with humans. These topics will be investigated through a combination of lecture, research, dissection, and field study.

SOCIAL STUDIES

African American Studies: Grades 9-12 (5 credits)

The purpose of this course is to examine the African American experience in the United States from 1863 to the present. Prominent themes include the end of the Civil War and the beginning of Reconstruction; African Americans' urbanization experiences; the development of the modern civil rights movement and its aftermath; and the thought and leadership of Booker T. Washington, Ida B. Wells-Barnett, W.E.B. Du Bois, Marcus Garvey, Martin Luther King Jr., and Malcolm X.

Current Issues: Grades 9, 10, 11, 12 (2.5 credits)

Current Issues is open to all students who are interested in learning more about the pressing issues facing the United States and world today. The content of the curriculum will be constantly changing as the world we live in does. The course focuses on the research, debate and discussion of international, national, regional, as well as local topics of interest. Due to the flexible nature of this curriculum, students may select this course more than once.

Democracy and Society: Grades 9, 10, 11, 12 (2.5 credits)

Democracy in Society emphasizes evolutionary study of our institutions of government. The western political foundation of our nation is traced to the Enlightenment political theorists. Application of Enlightenment theories of liberty and justice are examined, and the development of a party system is extrapolated in this course. To enhance this educational experience a wide range of activities including field trips will be incorporated.

European History AP: Grade 9 (10 credits)

AP Euro (APE) is a challenging course designed to teach students relevant and factual knowledge about Europe's impact on global history from 1450 (Renaissance) through the present. While preparing students for the AP European History Exam, this course will simultaneously meet the standards for World History. This course contains analysis of primary source documents and emphasizes critical thinking and writing.

Exploring Human Behavior: Grades 9, 10, 11, 12 (2.5 credits)

The course is designed to give students an overview of human behavior and its dealing with everyday events of life. Psychologists attempt to describe, explain, predict, and influence why people behave, feel, and think as they do. Psychology provides tools to help us gain insight into our own behavior, as well as our relationship with others.

History vs. Hollywood: Grades 9, 10, 11, 12 (2.5 credits)

This course looks into the significant events throughout history and how they are depicted through the Hollywood film industry. This course teaches historical lessons by critiquing motion pictures, discussing the historical time period, and analyzing the inaccuracies of the films' portrayal as opposed to the actual events. The course will cover social, economic, psychological, and political aspects of both the historical events and the popular culture that the movies generate.

Holocaust & Genocide Studies: Grades 11, 12 (5 credits)

This course is designed to give the student a survey of major genocidal movements throughout the 20th Century and into the present day. It will explore a variety of subjects and philosophical concerns. Topics to be discussed and examined will involve some deep thinking and analysis, as well as the exploration of personal and collective feelings and morals. Students may find some of the subject matter difficult, frightening, controversial and challenging. This is to be expected. While this course may not change the views of the participants, it will allow students to empathize and sympathize, and to understand other points of view.

Law & Public Safety I: Grades 10, 11, 12 (5 credits)

The Law and Public Safety career and education pathway is predicated upon an understanding of American legal tradition, and the societal circumstances that demand competence in the people who choose public service as a vocation or specialty in higher education. This course will serve as a foundation for students aspiring to enter the field of law and public safety.

Law & Public Safety II: Grades 10, 11, 12 (5 credits)

Prerequisite: Law & Public Safety I

This course provides students with skills necessary for comprehending the sociological, psychological, and economic causes of crime. This course also helps students to demonstrate an understanding of the Constitution and a respect for the rights of all citizens. The student will also begin to be prepared to apply logic and critical thinking skills to resolving problems of the criminal justice practitioner.

Law & Public Safety Seminar: Grades 10, 11, 12 (5 credits)

Prerequisite: Law & Public Safety I or II

This course will be entirely focused on competing in a statewide Mock Trial competition. The purpose of the course is to

- increase comprehension of the historical, ethical and philosophical basis of the American system of justice.
- demystify the operation of the law, court procedures and the legal system.
- help students increase basic life and leadership skills such as listening, speaking, writing, reading and analyzing.
- heighten appreciation for academic studies and promote positive scholastic achievements.
- bring law to life for students through active preparation for and participation in the competitions.

The goal of the competition is to learn and understand the meaning of good citizenship in a democracy vis-a-vis our system of law and justice.

Sociology: Grades 9, 10, 11, 12 (2.5 credits)

Sociology is about people – how they act, react, and interact both in their everyday lives and under extraordinary circumstances. It is about thoughts, feelings, and ideas. Sociology is about the social contexts – groups, neighborhoods, cities, and even whole societies in which these thoughts, feelings and ideas are formed. Sociology is about social life itself. This course will help students to know and adjust to life in all aspects of society from families to the global society we live in.

U.S. Government and Politics AP: Grades 11, 12 (5 credits)

AP Government and Politics is a college level course that explores the political theory and everyday practice that direct the daily operation of the U.S. government and shape our public policies. It will also provide the students with an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and analysis of specific examples. The express purpose of this course is to prepare students to take the AP Exam for U.S. Government and Politics.

US History I AP: Grade 10,11 (5 credits)

Prerequisite: World History Honors, AP European History

This is a comprehensive course in American History organized chronologically, beginning with exploration ending with 1900. It fulfills one of the two required years of American History in New Jersey public schools. It presents the forces that shaped the political, economic, and social institutions of the United States. Also, students will demonstrate their competence in a variety of social studies skill areas. United States History I AP requires the student to immerse him/herself in the struggle to establish an American identity during the Federal, Antebellum, Civil War and Reconstruction periods. Students will carefully examine primary and other available sources to demonstrate higher level understanding of the issues, and they will demonstrate this understanding in carefully constructed essays using the AP writing model. United States History I AP will prepare the student for United States History II AP, and eventually for success on the AP United States History test.

US History I College Prep A or B, Honors, RC, SC: Grade 10-11 (5 credits)

This is a comprehensive course in American History organized chronologically, beginning with exploration and ending circa 1900. It fulfills one of the two required years of American History in New Jersey public schools. The course presents the forces that shaped the political, economic, and social institutions of the United States. Students will also demonstrate their competency in a variety of social studies skill areas.

US History II AP: Grade 11-12 (5 credits)

Prerequisite: US History I AP or Honors

This is a comprehensive course in American history organized chronologically, beginning with the Spanish American war and culminating in the present. It fulfills one of the two required years of American history in New Jersey public schools. This course concentrates on forces that shaped the political, economic, and social institutions of the United States. Also, in this course students will demonstrate their competence in a variety of social studies skill areas. This course is designed to prepare student for intermediate and advanced college courses by making demands on them equivalent to those made by introductory college courses.

US History II College Prep A or B, Honors, RC, SC: Grade 11-12 (5 credits)

This is a comprehensive course in American History organized chronologically, beginning with the Spanish American War and culminating in the present. It fulfills one of the two required years of American history in New Jersey public schools. This course concentrates on forces that shaped the political, economic, and social institutions of the United States. Students will also demonstrate their competency in a variety of social studies skill areas.

World Civilization Honors: Grade 12 (5 credits)

World Civilization is a college level course designed to inundate the learner with knowledge of key events in world affairs from 1870 until the present. Emphasis will be placed upon international relations during this watershed period in world history in the hope that the student will gain a greater understanding of contemporary international realities. Non-Western civilization will also be examined.

World History College Prep A or B, Honors, RC, SLD, SC: Grade 9-10 (5 credits)

World History at Sterling High School will examine the critical events in watershed periods of the history of the world from the Renaissance circa 1400 to the contemporary world of global connectedness in the digital age. The course emphasizes the forces that have shaped our current world and attempts to make the students understand their role in a global community. Students will also demonstrate proficiencies in a wide variety of social studies skill areas.

VISUAL AND PERFORMING ARTS

Art I: Grades 9, 10, 11, 12 (2.5 credits)

This course offers projects in painting, drawing, design, graphics and commercial art. Such media as charcoal etching, acrylic, pen and ink, collage, tempera, and linoleum block printing etc. are included. Artistic talent is not required. However, those who may wish to pursue art related careers should benefit from this comprehensive introduction.

Art II: Grades 9, 10, 11, 12 (5 credits)

Prerequisite: Art I

This course builds upon the skills acquired in Art I through continued work in painting, sculpture, ceramics, drawing, design, graphics, etc., on a more advanced level. Lateral thinking or thinking creatively to find various solutions to visual problems is the focus of this course.

Art III: Grades 10, 11, 12 (5 credits)

Prerequisite: Art II

Students will continue to pursue a vocational approach to art. Along with more advanced class assignments. Students may also select particular media for in depth study such as watercolor, ceramics, acrylics, 3-D media, printmaking and more. Thinking laterally or creatively and exploring various solutions to visual problems continues to be the focus.

Art IV: Grades 10, 11, 12 (5 credits)

Prerequisite: Art III

This course represents a culmination of skills taught in Arts I, II, III. Vocational and consumer aspects of art as a life enriching experience continues through the study of advertising, product design, textile, fashion, furniture and interior design, textile, fashion, computer graphics, etc.

Art History AP: Grades 11, 12 (5 credits)

This course is equivalent to an introductory college art history course. In this course students will develop skills in visual, contextual, and comparative analysis while studying foundational exemplars of global artistic traditions within ten content areas. Students will be required to take the AP Art History test.

Chorus: Grades 9, 10 11, 12 (5 credits)

This course is open to all students without audition and meets every day for one semester. The only requirement is a sincere desire to sing. Students experience some of the great choral repertoire as well as lighter music. Emphasis is on four-part harmony (soprano, alto, tenor and bass). Students are taught to read music (or to improve music reading skills) and are given instruction in the proper use of the voice. Students combine with the Silvertones to form the Concert Choir. Performances include the annual holiday and spring concerts, assemblies, and occasional programs and competitions outside of school.

Concert Band/Ensemble: Grades 9, 10, 11, 12 (5 credits)

This program stresses the art of instrumental music through rehearsal and public performance. Students will perform music from all areas of concert band literature, which will broaden their aesthetic awareness and general knowledge of the relationship between music and self-expression.

Guitar: Grades 9, 10, 11, 12 (5 credits)

This course is designed for students in grades 9-12 with little to no previous guitar playing experience, are interested in the subject area, and willing to learn. Students will receive direction in solving problems related to playing the guitar at a beginning level and will learn many of the skills and techniques required to become a successful guitarist. Curriculum includes note reading, aural skills, picking, rhythmic patterns, chord study, finger-picking styles, musical forms, improvisation and performing experiences.

Introduction to Digital Photography: Grades 9, 10, 11, 12 (2.5 credits)

The introduction to digital photography course will introduce students to the process of collecting and manipulating images using a variety of digital media tools and software applications. This course can satisfy either a fine or a practical arts graduation requirement. This course may be taught by faculty in either the Technology Education or Visual Art Departments. This course satisfies NJ requirement for 21st Century Life and Careers.

Multimedia Design Computer Graphics I: Grades 9, 10, 11, 12 (2.5 credits)

This course will introduce students to the artistic design and computer techniques necessary to interpret and apply Multimedia Design and Computer Graphics programs. This course will introduce students to the artistic design and computer techniques necessary to interpret technical and commercial concepts in this field.

Multimedia Graphic Design II: Grades 10, 11, 12 (5 credits)

Prerequisite: passed the exit exam for Multimedia Design Computer Graphics Design I

This course prepares individuals to apply artistic and computer techniques to the interpretation of technical and commercial concepts. Includes instruction in computer-assisted art and design, printmaking concepts sketching, technical drawing, color theory imaging, studio technique, still and life modelling, multimedia applications, communication skills and commercial art business operations.

Multimedia Graphic Design III: Grades 11, 12 (5 credits)

Prerequisite: Multimedia Graphic Design II

This course prepares individuals to apply artistic and computer techniques to the interpretation of technical and commercial concepts. It includes instruction in computer-assisted art and design, printmaking concepts sketching, technical drawing, web design, flash animation and multimedia applications, communication skills and commercial art business operations. After completion a student will be ready for Seminar in Multimedia Graphic Design.

Multimedia Graphic Design IV: Grades 11, 12 (5 credits)

Prerequisite: Multimedia Graphic Design III

This program prepares individuals to apply computer techniques to real life experiences. Students will complete a structured learning experience in a working environment. They will work with industry standard equipment and produce work for companies with graphic needs. Students will leave this program with a portfolio that is conducive to job placement.

Music Appreciation and History: Grades 9, 10, 11, 12 (5 credits)

This course focuses on actively listening to music and making sense of what we hear through the exploration and analysis of diverse musical styles with cultural and historical contexts. Students will develop a greater ability to construct qualified value-judgments of varied musical performances. Students will also learn the fundamental components of the language of music.

Musical Theatre: Grades 10, 11, 12 (5 credits)

This class will enrich the performer through the development of skills related to musical theater performance (singing and acting) and exposure to musical theater history in relation to American culture. Students will take a multi-faceted approach to experiencing musical theater by preparing and performing monologues, songs, scenes, and improvisations while also presenting projects related to composers, shows, and other historical aspects of American musical theater. Audition and/or teacher recommendation required.

Music Theory: Grades 9, 10, 11, 12 (5 credits)

This course is an intensive study of music. In order to provide basic music reading and listening abilities, subjects will include notation, scales, key and mode construction, chords, intervals and transposition, cadences, and modulations. Work will include the study of real musical examples whenever possible as well as basic exercises in ear training, transposition, composition, and musicianship. Students will also be encouraged to explore their own creative potential through part-writing and composition.

Music Technology: Grades 9, 10, 11, 12 (2.5 credits)

This project-based music course will help students integrate their musical knowledge with computer-based technology. Students will use digital audio workstations, software synthesizers, MIDI devices, and other recording tools to compose, improvise, arrange, and produce music. Students will also learn about radio and video integration through film scoring. Keyboard skills recommended but not required.

Music Workshop: Grades 9, 10, 11, 12 (5 credits)

This instrumental music course is geared toward both experienced and aspiring instrumentalist who desire to hone their craft. Students will study the technical aspects of playing their instruments using method books, etudes, and both instrument and ensemble specific repertoire. Students will practice and perform in chamber ensembles as well as engage in solo performance.

Piano I, II: Grades 9, 10, 11, 12 (2.5 credits)

This course is designed to teach the concepts and fundamentals needed to perform on the piano. It will increase musical understanding beyond just reading notes by teaching students a vocabulary of chords and keys, accompaniment patterns, and improvisational techniques. Students will have the opportunity to participate in ensemble and solo playing. Students will develop good practice habits and learn techniques to increase the muscular agility and flexibility of their hands. At the completion of this course, the student will have learned to play some of the standards of piano repertoire while gaining a thorough understanding of the history and basic concepts of music.

WORLD LANGUAGES

Conversational Language Modified, Resource Center, SLD, SC Levels: Grades 9, 10, 11, 12 (5 credits)

This course is aligned with its mainstreamed counterpart and provides modifications to the regular curriculum. This course will emphasize knowledge about second language acquisition, the importance of communication, and the relationship between culture and language in order to fulfill the State's requirement that all New Jersey Students have the ability to communicate at a basic literacy level in at least one language other than English. This class will incorporate student-centered interactive instructional activities that will produce products, performances, and processes that will provide students with meaningful, relevant classroom experiences that can be applied in real world contexts and that actively involve students in the learning process.

French I: Grades 9, 10, 11, 12 (5 credits)

The course introduces simple directions, commands, requests, and preferences, using memorized words and phrases, and appropriate physical responses. Instruction includes copying/writing words, phrases, or simple guided texts on familiar topics including daily practices, products, and perspectives. The course will also include exposure to etiquette during greetings, leave takings, and daily classroom interactions.

French II: Grades 9, 10, 11, 12 (5 credits)

Prerequisite: French I

The course is a continuation of level I with a stronger emphasis on Communication, culture, communities, connections, and comparisons. Instruction includes meaningful and purposeful classroom activities for a greater acquisition of grammar and vocabulary. Exchange information using words, phrases and short sentences practiced in class on familiar topics or topics studied in other core content areas. Emphasis is on listening, reading, and or presenting selections from grade-appropriate, culturally authentic materials.

French III Honors: Grades 10, 11, 12 (5 credits)

Prerequisite: French II

Level III builds upon the foundations established in levels I and II. This course exposes students to more complex language features, and increased vocabulary associations. Activities include short conversations and brief written messages on familiar topics, and participation in guided conversations on a variety of familiar topics and or topics

studied in other core content areas. Emphasis is on telling and retelling stories using a guided format from age-appropriate, culturally authentic selections orally or in writing. Students are encouraged to tell or write about products of the target culture and simulate cultural practices i.e. culinary contributions, crafts, or artifacts from the target culture.

French IV Honors: Grades 11, 12 (5 credits)

Prerequisite: French III

In level IV focus is on increased fluency and control of the vocabulary, understanding important ideas and some details in authentic texts when reading. Course also includes learned expressions, strings of sentences, questions, and polite commands. Activities encourage imitating culturally appropriate behavior when working with the functions at this level.

Italian I: Grades 9, 10, 11, 12 (5 credits)

The course introduces simple directions, commands, requests, and preferences, using memorized words and phrases, and appropriate physical responses. Instruction includes copying/writing words, phrases, or simple guided texts on familiar topics including daily practices, products, and perspectives. The course will also include exposure to etiquette during greetings, leave takings, and daily classroom interactions.

Italian II: Grades 9, 10, 11, 12 (5 credits)

Prerequisite: Italian I

The course is a continuation of Italian I with a stronger emphasis on communication, culture, communities, connections, and comparisons. Instruction includes meaningful and purposeful classroom activities for a greater acquisition of grammar and vocabulary. Exchange information using words, phrases and short sentences practiced in class on familiar topics or topics studied in other core content areas. Emphasis is on listening, reading, and presenting simple selections from grade-appropriate, culturally authentic materials.

Italian III Honors: Grades 10, 11, 12 (5 credits)

Prerequisite: Italian II

Level III builds upon the foundations established in levels I and II. This course exposes students to more complex language features, and increased vocabulary associations. Activities include short conversations and brief written messages on familiar topics, and participation in guided conversations on a variety of familiar topics and or topics studied in other core content areas. Emphasis is on telling and retelling stories using a guided format from age-appropriate, culturally authentic selections orally or in writing. Students are encouraged to tell or write about products of the target culture and simulate cultural practices i.e. culinary contributions, crafts, or artifacts from the target culture.

Italian IV Honors: Grades 11, 12 (5 credits)

Prerequisite: Italian III

In level IV focus is on increased fluency and control of the vocabulary, understanding important ideas and some details in authentic texts when reading. Course also includes learned expressions, strings of sentences, questions, and polite commands. Activities encourage imitating culturally appropriate behavior when working with the functions at this level.

Spanish I: Grades 9, 10, 11, 12 (5 credits)

The course introduces simple directions, commands, requests, and preferences, using memorized words and phrases, and appropriate physical responses. Instruction includes copying/writing words, phrases, or simple guided texts on familiar topics including daily practices, products, and perspectives. The course will also include appropriate etiquette during greetings, leave takings, and daily classroom interactions.

Spanish II: Grades 9, 10, 11, 12 (5 credits)

Prerequisite: Spanish I

The course is a continuation of level I with a stronger emphasis on communication, culture, communities, connections, and comparisons. Instruction includes meaningful and purposeful classroom activities for a greater acquisition of grammar and vocabulary. Exchange information using words, phrases and short sentences practiced in class on familiar topics or topics studied in other core content areas. Emphasis is on listening, reading, and or presenting selections from grade-appropriate, culturally authentic materials.

Spanish III Honors: Grades 10, 11, 12 (5 credits)

Prerequisite: Spanish II

Level III builds upon the foundations established in levels I and II. This course exposes students to more complex language features, and increased vocabulary associations. Activities include short conversations and brief written messages on familiar topics, and participation in guided conversations on a variety of familiar topics and or topics studied in other core content areas. Emphasis is on telling and retelling stories using a guided format from age-appropriate, culturally authentic selections orally or in writing. Students tell or write about the target culture and simulate cultural practices.

Spanish IV Honors: Grades 11, 12 (5 credits)

Prerequisite: Spanish III

In level IV focus is on increased fluency and control of the vocabulary, understanding important ideas and some details in authentic texts when reading. Course also includes learned expressions, strings of sentences, questions, and polite commands. Activities encourage imitating culturally appropriate behavior when working with the functions at this level.

Spanish V AP: Language & Culture: Grades 12 (5 credits)

Prerequisite: Spanish IV

Spanish V AP at Sterling High School will take a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students should learn language structures in context and use them to convey meaning. In standards-based world language classrooms, the instructional focus is on function and not the examination of irregularity and complex grammatical paradigms about the target language. Language structures should be addressed inasmuch as they serve the communicative task and not as an end goal unto themselves. The AP Spanish Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course is taught in the target language.