

Sayreville War Memorial High School Course Description Book 2023 – 2024



**Sayreville War Memorial High School
Office of Guidance and Counseling
820 Washington Road
Parlin, NJ 08859
732-525-5280**

Sayreville War Memorial High School Counseling Staff

Mrs. Donna Sicola	Director, Counseling Services		
Ms. Carly Chupka	Counselor	A-Bud	Grades 9-12
Ms. Paula Schnorbus	Counselor	Bue-Esh	Grades 9-12
Mr. Joseph Schlaline	Counselor	Esi-Kad	Grades 9-12
Mrs. Kimberly Gibson	Counselor	Kae-Mas	Grades 9-12
Mrs. Barbara Wichinsky	Replacement Counselor	Mat-Peg	Grades 9-12
Ms. Kaila O'Donnell	Counselor	Peh-Se	Grades 9-12
Mr. Hareesh Kapadia	Counselor	Sf-Z	Grades 9-12
Ms. Amber Morgan, SAC	Counselor		
Ms. Angela Jones	Administrative Secretary		
Mrs. Sharon Thasites	Administrative Secretary		

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Ms. Donna Jakubik	Visual & Performing Arts
Ms. Mala Maharana	Mathematics, Business, Computer Science
Ms. Carolynn O'Connor	Science, Practical/Industrial Arts, JROTC

Sayreville War Memorial High School Administration

Mr. Dale J. Rubino	Principal
Mrs. Megan Romero	Vice Principal
Mr. Michael Salum	Vice Principal
Mrs. Katelyn Zurawski	Vice Principal

INTRODUCTION

Sayreville War Memorial High School offers its students a comprehensive program of studies. The course description booklet is an important resource for students and parents. It serves as a guide to the course offerings at SWMHS. The course descriptions have been provided by department supervisors, with input from appropriate staff members.

The educational planning process is important and ongoing. The selection of courses should reflect a student's goals, achievements and aptitudes, as well as meet local, state and college entrance requirements.

Students and parents should note the importance of making sound choices in the selection of courses. **Careful reading of the contents of this book, including course descriptions and requirements, may eliminate future misunderstanding.** Remember to select courses for their value in the student's overall plan, not because of who the teacher may or may not be. **It is important to note that requests for schedule changes due to personnel will not be honored.**

Note: Appropriate planning and development of the master schedule is based on student requests in the spring. Students should select courses carefully. Courses chosen now should be considered firm choices. Changes will occur in the fall only to reflect summer school grades, standardized test scores or to correct school errors. All courses listed in this book are scheduled to be offered. Those which will actually be given during the 2023-2024 school year will depend upon requests for the course as well as budget constraints. As a result, **please be aware that not all offered courses may actually be given.**

Grade 9 Electives

Course	Department	Type
Air Force JROTC		Full Year
Auto Technology 1	Technology	Semester
Band	Music	Semester and Full Year
Business Organization	Business	Semester
Career Development	Business	Semester
Children's Literature	Language Arts	Semester
Choir 101	Music	Semester and Full Year
Communicating in 21 st Century	Language Arts	Semester
Communication/TV 1	Language Arts	Semester (S1)
Communication/TV 2	Language Arts	Semester (S2)
Creative Crafts	Art	Semester
Creative Writing	Language Arts	Semester
Digital Art	Art	Semester
Engineering Drawing	Technology	Full Year
Fashion Illustration	Art	Semester (S2)
Financial Literacy in the 21st Century (Economics)	Social Studies	Semester
Computer Science Principles	Computer Sciences	Full Year
Introduction to Art	Art	Semester
Journalism	Language Arts	Semester
Microsoft Office Suite	Business	Semester
Monsters in Literature	Language Arts	Semester
Mythology	Language Arts	Semester
Robotics	Technology	Full Year
The Great Metropolis	Social Studies	Semester
Theatre 1	Performing Arts	Full Year
Wood 1	Technology	Semester
World Geography	Social Studies	Semester

Graduation Requirements

Coursework Requirements

Sayreville War Memorial High School is a comprehensive high school. There are certain courses required for graduation for all students, many of the subjects are elected by the student. To a large extent, the courses selected determine the type of post-high school opportunities available to the student. The Sayreville Board of Education mandates a minimum of **130 credits** for graduation.

Content Area	Minimum Credits	Additional Information
LANGUAGE ARTS LITERACY	20	Must be aligned with New Jersey Student Learning Standards.
MATHEMATICS	15	Must include Algebra 1 and Geometry or the content equivalent* and a third year of math that builds on the concepts and skills of algebra and geometry and prepares students for college and 21 st century careers. Must also be aligned with New Jersey Student Learning Standards.
SCIENCE	15	Must include at least five credits in laboratory biology/life science or the content equivalent*; an additional laboratory/inquiry-based science course including chemistry, environmental science or physics; and a third laboratory/inquiry-based science course.
SOCIAL STUDIES	15	Must include five credits in world history and ten credits in United States History.
HEALTH, SAFETY, AND PHYSICAL EDUCATION	20	As per N.J.S.A. 18A:35-4, 5, 7 and 8, students must earn 3.75 credits in health, safety and physical education during each year of enrollment, distributed as 150 minutes per week, which must also include CPR and AED instruction. <i>Sayreville has a local requirement of 5 credits of Health/PE per year.</i>
WORLD LANGUAGES	5	While the NJDOE only requires 5 credits, many colleges expect 10 or even 15 credits.
FINANCIAL LITERACY/ECONOMICS	2.5	
VISUAL AND PERFORMING ARTS	5	See Course Description Book for list of approved courses.
21ST CENTURY LIFE AND CAREERS OR CAREER TECHNICAL EDUCATION (PRACTICAL ART)	5	See Course Description Book for list of approved courses.
ELECTIVES	27.5	
TOTAL CREDITS	130	

*Content equivalent means courses or activities that include the same or equivalent knowledge and skills as those found in traditionally titled courses that are required for high school graduation and are aligned with state and local standards.

Credit Requirements

Each student must earn a minimum of 130 credits to earn a high school diploma. Credits are awarded upon the successful completion of each course. A student's grade level is determined by the number of credits that he/she has earned. Courses currently in progress do not count toward this total until they are completed. Below are the earned credit requirements for each grade level.

Classes of 2024–2025 High School Graduation Assessment Requirements

First Pathway

Students must take and demonstrate proficiency in grade 11 on the New Jersey Graduation Proficiency Assessment, which includes content aligned to the grade 10 New Jersey Student Learning Standards (NJSLS) in ELA, and the NJSLS in Algebra 1 and Geometry. If after completing the New Jersey Graduation Proficiency Assessment a student does not demonstrate proficiency on the ELA or mathematics section, the student may retake the New Jersey Graduation Proficiency Assessment in the following summer or fall.

ELA	Mathematics
New Jersey Graduation Proficiency Assessment—ELA ≥ 750 (Graduation Ready)	New Jersey Graduation Proficiency Assessment—Mathematics ≥ 750 (Graduation Ready)

Second Pathway

Note: This pathway is only available to students who completed the New Jersey Graduation Proficiency Assessment in grade 11.

Students who sat for the New Jersey Graduation Proficiency Assessment in grade 11 and did not demonstrate proficiency are able to demonstrate proficiency in ELA and/or mathematics by meeting the designated cut score on one of the assessments on the menu of substitute competency tests in the table for the second pathway (below).

Second Pathway—Menu of Substitute Competency Tests

Note: Cut scores forthcoming following New Jersey State Board of Education Approval.

ELA	Mathematics
One of the following: <ul style="list-style-type: none">• NJSLA/PARCC ELA Grade 9• SAT Critical Reading (taken before 3/1/16)• SAT Evidence-Based Reading and Writing Section (taken 3/1/16 or later)• SAT Reading Test (taken 3/1/16 or later)	One of the following: <ul style="list-style-type: none">• NJSLA/PARCC Algebra I• NJSLA/PARCC Geometry• NJSLA/PARCC Algebra II• SAT Math (taken before 3/1/16)• SAT Math Section (taken 3/1/16 or later)• SAT Math Test (taken 3/1/16 or later)• ACT or ACT PLAN Math

ELA	Mathematics
<ul style="list-style-type: none"> • ACT Reading or ACT PLAN Reading* • ACCUPLACER WritePlacer • ACCUPLACER WritePlacer ESL • PSAT10 Reading or PSAT/NMSQT Reading (taken before 10/1/15) • PSAT10 Reading or PSAT/NMSQT Reading (taken 10/1/15 or later) • ACT Aspire Reading* • ASVAB-AFQT Composite 	<ul style="list-style-type: none"> • ACCUPLACER Elementary Algebra • Next-Generation ACCUPLACER Quantitative Reasoning, Algebra, and Statistics (QAS) (beginning January 2019) • PSAT10 Math or PSAT/NMSQT Math (taken before 10/1/15) • PSAT10 Math or PSAT/NMSQT Math (taken 10/1/15 or later) • ACT Aspire Math* • ASVAB-AFQT Composite

Third Pathway

Note: This pathway is only available to students who completed the New Jersey Graduation Proficiency Assessment in grade 11.

Students who completed the New Jersey Graduation Proficiency Assessment in grade 11 and did not demonstrate proficiency are able to demonstrate proficiency in ELA and/or mathematics through a portfolio appeal in grade 12.

Third Pathway—Portfolio Appeals

ELA	Mathematics
Meet the criteria of the NJDOE Portfolio Appeal for ELA	Meet the criteria of the NJDOE Portfolio Appeal for Math

IMPORTANT:

Juniors (Class of 2024) that do not currently have a passing English and/or math test, will be placed in LAL Skills 12 and/or Math 404 in place of one or two electives.

As a result of standardized test results, benchmark assessments and/or prior grades, students in grades 9-11 may be required to take LAL Skills or a supplemental math class in place of their elective(s).

ART DEPARTMENT

ADVANCED ART

5 CREDITS

Prerequisite: Grades 10-12;
Minimum of B+ in
Introduction to Art &
departmental approval

The course explores in greater depth the principles of design offered in the introductory course. Projects in sculpture and still life drawing are added to the requirements. (Performing Art)

ADVANCED PLACEMENT ART HISTORY

5 CREDITS

Prerequisite: Grades 11-12;
Minimum of a B in AP/
Honors English or minimum
of a B+ in CP English;
Department Approval

The AP offering provides the student with an understanding of various art forms through historical and cultural contexts. Analyze artwork critically with intelligence and sensitivity. (Performing Art)

ART WORKSHOP

5 CREDITS

Prerequisite: Grades 11 & 12
Minimum of B+ in
Introduction to Art &
departmental approval;

This course provides for individual development and experimentation in a choice of different media. Portfolio preparation will be included. (Performing Art)

CREATIVE CRAFTS

2.5 CREDITS

Prerequisite: None

This course will cover yarn design, mosaics, copper embossing, paper marbling, latch hook rugs, dream catchers, plaster sculpture, collage and graphic design. Individual goals will be emphasized. (Performing Art)

DIGITAL ARTS

2.5 CREDITS

Prerequisite: None

This course introduces students to the basics of photography, such as cropping, coloring, lighting and graphic arts, design and software skills. Brochures, programs, business cards, logos and the like will be produced. (Performing/Practical Arts)

FASHION ILLUSTRATION

2.5 CREDITS

Prerequisite: Introduction to Art

This course enables students to understand, analyze and draw fashion figures from different views. Skills will be developed to create unique designs. (Performing Art)

DRAWING

2.5 CREDITS

Prerequisite: Grades 10-12

One Semester

Minimum of B+ in

Intro to Art

This course will provide students with a solid foundation of the methods and techniques essential to the art of drawing. Students will gain knowledge of and practice different types of drawings utilizing multiple mediums. (Performing Art)

INTRODUCTION TO ART

2.5 CREDITS

Prerequisite: None

One Semester

Explores the principles and elements of design through a variety of techniques including watercolor, tempera, sketching, pen and ink and printing. (Performing Art)

JEWELRY 1 (Not offered 2023-2024)

Prerequisite: Grades 10-12 given

2.5 CREDITS

preference; Art Academy
students grade 10

Introduces students to the basic techniques of metal working jewelry making. Techniques include piercing, sawing, riveting and soldering. (Performing Art)

JEWELRY 2

2.5 CREDITS

Prerequisite: Jewelry 1

One Semester

An advanced continuation of Jewelry and Metal Working 1. (Performing Art)

PAINTING

2.5 CREDITS

Prerequisite: Grades 10-12

One Semester

Minimum of B+ in

Intro to Art

This course is designed to enable students to experience a wide range of approaches to media, skills and techniques. This course will challenge students' creative potential as well as provide a basic foundation in painting. Through the use of this aesthetic exploration of a variety of styles of painting, students will develop a personal style and approach. (Performing Art)

SCULPTURE AND CERAMICS 1

2.5 CREDITS

Prerequisite: Grades 11-12 given

One Semester

Preference; Art Academy
Students grade 10

This course provides students with practical and technical knowledge in hand-formed ceramics. There will be a strong emphasis on textural and glazed decoration. (Performing Art)

SCULPTURE AND CERAMICS 2

2.5 CREDITS

Prerequisite: Grades 11-12 given

One Semester

Preference; B in
Sculpture & Ceramics 1

An advanced continuation of Sculpture and Ceramics 1. (Performing Art)

STAINED GLASS**Prerequisite:** Grades 11-12;

Art Academy Students

Grade 10

2.5 CREDITS

One Semester

This course will cover the two major styles of stained-glass construction, i.e., Tiffany style and lead cane construction. Techniques include cutting, copper foil wrapping and soldering. (Performing Art)

STUDIO ART**Prerequisite:** Grades 11-12;B+ or above in Intro to Art
& departmental approval

5 CREDITS

Full Year

This course provides opportunities for students to refine skills developed in Intro to Art. Students will delve deeper into the concepts and processes of making art. Studio projects complemented by lectures/discussions to understand, analyze and interpret art, both past and present. A strong emphasis will be placed on the development of each student's creative capacities, awareness and growth. (Performing Art)

BUSINESS DEPARTMENT

ALL PLACEMENT CRITERIA LISTED BELOW IS AS OF THE DATE/TIME OF REGISTRATION.

BUSINESS ORGANIZATION AND MANAGEMENT**Prerequisite:** None

2.5 CREDITS

One Semester

An introduction to business. Students will learn principles of business organization. Areas include money, insurance, budgeting, government and industry. (Practical Art)

CAREER DEVELOPMENT**Prerequisite:** None

2.5 CREDITS

One Semester

Designed to develop students' interests and aptitudes as well as to strengthen decision making skills. Students will explore the man careers available to them and begin to develop a path to future career possibilities. (Practical Art)

ESSENTIALS OF MARKETING 1**Prerequisite:** Grades 10-11; B in

English 9 CP or higher

2.5 CREDITS

One Semester

Preparing students for marketing occupations involving complex duties and decision-making processes. Students will learn the fundamentals of marketing using real-world business examples. Areas include, buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management. Students are expected to participate in DECA, the student organization. (Practical Art)

ESSENTIAL OF MARKETING 2**Prerequisite:** Grades 10-11; B in

Essentials of Marketing 1

2.5 CREDITS

One Semester

Throughout this course students will further explore the world of business and marketing and build on the skills you learned in the Essentials of Marketing 1 class. This hands-on, project-based learning class focuses on current topics in business and

marketing using real world examples. Students will need to follow oral and written directions, work will in groups and demonstrate good work habits to be successful in the course. (Practical Art)

INTRODUCTION TO ACCOUNTING

5 CREDITS

Prerequisite: Grades 10-12

Full Year

Basic accounting skills, such as debits and credits, recording transactions and financial reports will be studied. Simulations will be used. Students will use Microsoft Excel to integrate spreadsheets. Highly recommended for business and college preparatory students. (Practical Art)

FINANCIAL ACCOUNTING HONORS

5 CREDITS

Prerequisite: B in Algebra 2

Full Year

Students will learn from a college level textbook and will be taught at an accelerated rate. Topics include preparation of financial statements, adjusting, closing and revising entries, inventory evaluation and fixed assets and depreciation. Microsoft Excel will be used. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.** (Practical Art)

MANAGERIAL ACCOUNTING HONORS**Prerequisite:** Grades 11-12; B inFinancial Accounting
Honors

2.5 CREDITS

One Semester

An introduction to the use of accounting information by managers. Topics include the use of accounting information for planning and control, performance, evaluation, decision-making, and the statement of cash flows, along with financial statement analysis. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.** (Practical Art)

COOPERATIVE WORK EXPERIENCE SEMINAR**Prerequisite:** Grade 12; Prior to senior

year students must have

completed 95 credits; must

must have passed all sections

of Standardized Testing

requirements; Minimum GPA:

2.5 and Business Organization course

10 CREDITS

Full Year

Students will apply to the Co-op Coordinator for approval

This is a cooperative program between the school and the business community. After completing the course, students are ready to obtain starting positions in businesses. Students are expected to demonstrate competence through successful participation in the program and are encouraged to participate in DECA or FBLA, the student organizations. Besides classroom lessons, a minimum of 270 hours of outside-school supervised work is required. Students must take and demonstrate proficiency on the NJGPA or by meeting the designed, cut score on one of the ELA and Math assessments on the menu of substitute competency tests. (Practical Art)

MICROSOFT OFFICE SUITE

2.5 CREDITS

Prerequisite: None

One Semester

Students will learn the basics of Word, Excel, PowerPoint and Access and will be given projects to develop their skills. Merges, macros, advance editing and advanced graphics also will be taught. (Practical Art)

SPORTS AND ENTERTAINMENT MARKETING**Prerequisite:** Grades 11-12; must have

2.5 CREDITS

2.5 credits in Business

One Semester

courses

Students will learn the basics of marketing and how they are applied to sports and entertainment events. Financing, pricing, promoting products, distribution, selling, legal and ethical issues will be explored. (Practical Art)

BUSINESS CAPSTONE**Prerequisite:** Grades 12

2.5 Credits

One Semester

This course is offered to students who are enrolled in the CTE Marketing Track and the students who are enrolled in the Business Academy. This course engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, student practice reading and analyzing articles, research studies, and foundational, literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. (This is a Business Academy Course Only)

COMPUTER SCIENCES

**ALL PLACEMENT CRITERIA LISTED BELOW IS AS
OF THE DATE/TIME OF REGISTRATION.**

COMPUTER NETWORKING AND DESIGN**Prerequisite:** Grades 10-12; Algebra 1

5 CREDITS

Full Year

Students will study the internal parts of a computer, assemble a system and troubleshoot problems. Hands-on lab activities are essential components. Virtual learning tools are also integrated. The students will earn industry level certification Testout PC Pro certification (Practical Art)

COMPUTER SCIENCE PRINCIPLES

5 CREDITS

Prerequisite: Algebra 1

Full Year

Students will be introduced to the concepts essential to all programming languages. By moving through the program development cycle of analysis, design, coding, testing, debugging and documenting, students will learn the skills necessary to enroll in advanced computer science courses. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits. (Practical Art)**

FRONT END WEB DEVELOPMENT

2.5 CREDITS

Prerequisite: Computer Science

One Semester

Principles; Fall only

Focuses on the design and construction of Internet Web pages. Students will build a sample web site, incorporating graphics, text, tables, buttons and interactivity. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits. (Practical Art)**

PYTHON PROGRAMMING

2.5 CREDITS

Prerequisite: Computer Science

One Semester

Principles; Grades 10, 11**& 12; Spring only**

Students will gain an understanding of advanced languages such as Python. Topics include algorithms, static and dynamic data structures, sequence, repetition and conditions. (Practical Art)

ADVANCED PLACEMENT COMPUTER SCIENCE A**Prerequisite:** Grades 11-12;

5 CREDITS

Algebra 1

Full Year

The AP Computer Science A course covers topics typically found in a college-level first course in computer science and provides a solid preparation for the AP Computer Science A examination. The course emphasis is on procedural development cycle of analysis, design, coding, testing, debugging and documenting, students will learn the skills necessary to enroll in advanced computer science courses. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits. (Practical Art)**

**ADVANCED PLACEMENT COMPUTER SCIENCE
PRINCIPLES**

5 CREDITS

Prerequisite: Algebra 1

Full Year

Computer Science Principles introduces students to the foundation concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging and approachable course that many of the foundation ideas of computing, so all students understand how these concepts are transforming the world we live in. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits. (Practical Art)**

HISTORY DEPARTMENT

WORLD HISTORY HONORS

5 CREDITS

Prerequisite: Minimum of an A- in level 1 or minimum of an A in level 2 Social Studies in grade 8; Minimum of 90 or above on Quarterly assessments Met/ Exceed expectations on January 2023 ELA benchmark; Teacher recommendation

A chronological view of world history from the Classical civilizations of Greece and Rome through nationalistic revolution of 1848. Emphasis will be placed upon the Medieval World, the Renaissance and the Reformation.

WORLD HISTORY CP

5 CREDITS

Prerequisite: Teacher recommendation Full Year
A chronological view of world history from the Classical civilizations of Greece and Rome through nationalistic revolution of 1848. Emphasis will be placed upon the Medieval World, the Renaissance and the Reformation.

WORLD HISTORY

5 CREDITS

Prerequisite: Grade 9 placement in Core English and teacher recommendation Full Year

A chronological view of world history from the Classical civilizations of Greece and Rome through nationalistic revolution of 1848. Emphasis will be placed upon the Medieval World, the Renaissance and the Reformation. Students identified as needing support in ELA as evidenced by ELA NJSLA and/or ELA Linkit benchmarks may be recommended for this course.

ADVANCED PLACEMENT AP US HISTORY 1

5 CREDITS

Full Year
Placement for AP US History 1 will be based on the criteria outlined below as well as teacher recommendation. In addition, all students that wish to be considered for the course must complete an application in January for approval by the content area supervisor.

Current Level	Quarterly 1 Exams History and English	Quarterly 2 Exams History and English	Semester 1 Grades History and English	January 2023 English Benchmark Assessment
Honors History =10 pts. Honors English =10 pts. CP	A range=5 B+=3	A range=5 B+=3	A range=10 B+=5	Exceed Expectations =10 Met

History =5 pts. CP English =5 pts.				Expectations =5
	B=1	B=1	B=2	

An in-depth, chronological study of the history of the United States from pre-Columbian explorations through the beginning of the twentieth century. Students will be exposed to traditional and revisionist interpretations of United States History.

US HISTORY 1 HONORS

5 CREDITS

Prerequisite: Minimum of a B+ in World History Honors or minimum of an A in CP; Met/Exceed expectations on January 2023 ELA benchmark; Teacher recommendation Full Year

An in-depth, chronological study of the history of the United States from pre-Columbian explorations through the beginning of the twentieth century. The course will be supplemented by documents and literature pertinent to the period of study.

US HISTORY 1 CP

5 CREDITS

Prerequisite: World History CP and Teacher recommendation Full Year

A chronological study of the history of the United States from pre-Columbian explorations through the beginning of the twentieth century.

US HISTORY 1

5 CREDITS

Prerequisite: Grade 10 placement in Core English and Teacher recommendation Full Year

A chronological study of the history of the United States from pre-Columbian explorations through the beginning of the twentieth century. Students identified as needing support in ELA as evidenced by ELA NJSLA and/or Linkit benchmarks may be recommended for this course.

ADVANCED PLACEMENT US HISTORY 2

5 CREDITS

Prerequisite: B+ in AP US History 1 and teacher recommendation or Honors US History 1; A quarter 1 and quarter 2 exam; A semester 1 grade; Met/Exceed January 2023 Benchmark AP application Full Year

A continuation of AP US History 1. An in depth, chronological study of the history of the United States from twentieth century to the present. Students will be exposed to traditional and revisionist interpretations of United States History. Emphasis will be placed upon preparation for the AP examination.

US HISTORY 2 HONORS 5 CREDITS
Prerequisite: B+ in US History 1 Honors Full Year
 or A in US History 1 CP;
 Met/ Exceed expectations on
 January 2023 Benchmark;
 and teacher recommendation

A continuation of US History 1 Honors. An in-depth chronological study of the history of the United States from the twentieth century to the present. The course will be supplemented by documents and literature pertinent to the period of study.

US HISTORY 2 CP 5 CREDITS
Prerequisite: US History 1 CP and Full Year
 teacher recommendation

A continuation of US History 1. A chronological study of the history of the United States from the twentieth century to the present.

US HISTORY 2 5 CREDITS
Prerequisite: Grade 11 placement in Full Year
 Core English and
 Teacher recommendation

A continuation of US History 1. A chronological study of the history of the United States from the twentieth century to the present. Students identified as needing support in ELA as evidenced by ELA NJSLA and/or ELA Linkit benchmarks may be recommended for this course.

AMERICAN GOVERNMENT/CIVICS 5 CREDITS
Prerequisite: Grades 10-12 Full Year
 The course will introduce students to the basic principles of our American government. Emphasis will be placed upon the Constitution and current issues with the country.

CURRENT HISTORY 2.5 CREDITS
Prerequisite: Grades 11-12 One Semester
 Students will examine the economic, geographic, world, political and sociological areas of today. Emphasis will be placed upon newspapers and televised new broadcasts.

FINANCIAL LITERACY IN THE 21ST CENTURY (ECONOMICS) 2.5 CREDITS
Prerequisite: None One Semester
 Students are given a basic understanding of personal finance along with the principles of credit, interest, debt, checking, savings and taxes. Areas to be highlighted include the role of the government, money and banking and comparative economic systems. This course is a graduation requirement.

THE GREAT METROPOLIS 2.5 CREDITS
Prerequisite: None One Semester
 Students will be provided with the opportunity to examine the architecture, history, geography, culture and cuisine of the American Metropolis during the early twentieth century. Emphasis will be placed on the various immigrant groups that came to the United States and the contributions they have made.

HISTORY OF AMERICAN CULTURE 2.5 CREDITS
Prerequisite: Grades 11-12 One Semester
 An examination of the popular culture of the twentieth and twenty first centuries in the United States. Students will analyze the evolution of music, art, film and entertainment from 1900 to the present, and how these helped shape major movements in American history.

MODERN GLOBAL CONFLICTS 2.5 CREDITS
Prerequisite: Grades 11-12 One Semester
 Students will examine situations in today's world that have caused strife among nations. Topics will include The New Europe, conflicts in the Middle East, struggles to keep world peace, human rights and facing the future.

PEER LEADERSHIP 5 CREDITS
Prerequisite: Grade 12; application Full Year
 review; teacher recommendation

A course that prepares seniors to serve as role models/mentors for freshmen. One day each week will be designated as a "break-out" day when the seniors work with small groups of freshmen. Problems such as self-esteem, substance abuse and social and cultural issues are addressed. (Practical Art)

SOCIAL FOUNDATIONS OF HUMAN BEHAVIOR 2.5 CREDITS
Prerequisite: Grades 11-12 One Semester
 This course introduces the student to a better understanding of human behavior. Topics such as learning, emotions, coping with frustration, anxiety, the nervous system, motivation, personality disorders and intelligence will be discussed.

SOCIAL ISSUES IN MODERN AMERICA 2.5 CREDITS
Prerequisite: Grades 11-12 One Semester
 Students are given a greater insight into current social problems. Students explore the role of the young adult in today's society, campus unrest, crime and racial conflict. Students develop a willingness to actively participate in problems facing us today.

STREET LAW 1 2.5 CREDITS
Prerequisite: Grades 11-12 One Semester
 Students will gain a fundamental knowledge of American law and our legal system. The curriculum is designed to provide students with an understanding of their legal rights and responsibilities.

STREET LAW 2 2.5 CREDITS
Prerequisite: Street Law 1 One Semester
 A continuation of Street Law 1. Students will explore First Amendment Rights, particularly freedom of expression and religion. Liability and negligence also will be covered.

INTRODUCTION TO TOMORROW'S TEACHERS

Prerequisite: Grade 11

2.5 CREDITS

One Semester

This course will provide students who may be interested in pursuing a career in education with a chance to learn more about the profession. This course will expose students to teaching and learning of various public education settings including early childhood, elementary, middle, and high school as well as the education services. This course is a prerequisite for Tomorrow's Teachers Honors.

TOMORROW'S TEACHERS HONORS

5 CREDITS

Prerequisite: Grade 12; must have a

Full Year

B in Intro to Tomorrow's

Teachers; teacher approval

An Honors course that studies the history, development, organization and practice of preschool, elementary and secondary education. Students will learn about the realities of public education and alternatives to public education. Course includes practical teaching experiences three days a week. This course is offered Dual Enrollment with Rider University.

WORLD GEOGRAPHY

2.5 CREDITS

Prerequisite: None

One Semester

Students will gain a basic understanding of the geography of today's world. An emphasis will be placed on the interrelationship of physical, culture and economic geography. A special emphasis on the United States also will be included.

LANGUAGE ARTS DEPARTMENT

English 9-12 Placement Criteria

***Students will be placed in a College Prep (CP)
level English course unless one of the courses
below is applicable.***

CORE LEVEL ENGLISH COURSES:

Students identified as needing support in meeting state standards appropriate for grade level in English Language Arts, as measured by NJSLA, LinkIt Benchmarks and/or Quarterly Exams may be recommended by the teacher for placement in a core level course which will focus on prerequisite skills and concepts for ELA.

HONORS LEVEL COURSES: Students must meet three of the four criteria listed below.

Earned a B or higher in Honors Level English **OR** A or higher in CP Level English **prior year**

Exceeded Expectations on at least one NJSLs LinkIt Benchmark in ELA **during semester 1 this year**

Earned a B or higher in Honors Level English **OR** A or higher in CP Level English in **semester 1 of this year** (average of MP 1 and 2)

Earned an A or better for Semester 1 CP Quarterly exams **OR** B or better on Honors Quarterly exams (**average of Q1 and Q2 exams**)

Placement for AP I Language and Composition (Grade 11) and AP II Literature and Composition (Grade 12) will be based on the criteria as outlined below. Applications will be accepted in January. Students will be required to submit a writing sample. Decisions are final.

Current Level	Quarterly 1 & 2 Exam Average	Semester 1 Grade	NJSLA OR LinkIt Benchmark Form B Feb 2021
API=10	A range=10	A range=10	Exceeded Expectations=10 points
Honors=7	B+=5	B+=5	Met Expectations=5 points
CP=2	B=2	B=2	BelowMet=0

Additional Courses:

LAL SKILLS 9, 10 & 11

2.5 CREDITS

Students not meeting the expectations on the state mandated standardized assessment or the NJSLA Benchmark exams administered throughout the year for grades 9, 10 & 11 will be placed in a full year required remediation course as outlined by NJDOE policies.

LAL SKILLS 12

2.5 CREDITS

Students not meeting the NJDOE's High School Graduation Requirement by the end of eleventh grade will be placed in a single semester required remediation course that focuses on NJSLs in ELA as measured by approved assessment pathways. Students will also complete assessments for the NJDOE Portfolio process if necessary. This is a mandatory course.

LANGUAGE ARTS ELECTIVES:

CHILDREN'S LITERATURE

2.5 CREDITS

Prerequisite: None

One Semester

Children's literature will be used to explore a variety of genres and give students the opportunity to explore titles with a fresh perspective and in depth. This is a FEA course option.

COMMUNICATION ARTS THROUGH TELEVISION 1

Prerequisite: None

2.5 CREDITS

One Semester

An introduction to the field of television production that will provide students with an opportunity to develop communication skills related to the medium. Extensive exposure to television production software and camera work. Students also will work on original film projects. (Performing/Practical Art)

COMMUNICATION ARTS THROUGH TELEVISION 2**Prerequisite:** CATV 1 and a C or better CATV1 2.5 CREDITS One Semester

The second semester of a program designed to empower students with skills related to technical production and effective communication through the medium of television. (Performing/Practical Art)

COMMUNICATION ARTS THROUGH TELEVISION 3**Prerequisite:** CATV 2 and teacher approval 5 CREDITS Full Year

The third course of a program designed to empower students with skills related to technical production and effective communication through the medium of television. (Performing/Practical Art)

COMMUNICATION ARTS THROUGH TELEVISION 4-IS**Prerequisite:** CATV 3 and teacher approval 5 CREDITS Full Year

A full-year course designed to empower students in developing and producing a television production by learning camera operations, screen writing, interviewing skills, on-camera skills, etc. (Performing/Practical Art)

CREATIVE WRITING**Prerequisite:** None 2.5 CREDITS One Semester

This course is designed for student who want to further explore their passion for writing. Skills in written expression and publishing will be explored in a variety of genres.

COMMUNICATING IN 21ST CENTURY**Prerequisite:** None 2.5 CREDITS One Semester

Communicating in the age of the internet and social media is the main focus of this course. Students will explore blogging, emailing, social media posting and online research as well as digital citizenship and public speaking. This is a FEA course option. (Performing/Practical Art)

JOURNALISM**Prerequisite:** None 2.5 CREDITS One Semester

Students will explore the production and impact of newspapers, periodicals, magazines, etc. on our society as well as develop writing skills. Students will work on a school-based newspaper, EchoLites, as part of the coursework.

MONSTERS IN LITERATURE**Prerequisite:** None 2.5 CREDITS One Semester

Perfect course for students who love the genres of horror, mystery and science fiction. Read and analyze several examples of classic monster stories and explore the impact and role of the genre on our society.

MYTHOLOGY**Prerequisite:** None 2.5 CREDITS One Semester

Students read, analyze and explore mythology as a genre across cultures and throughout time. Mythical connections to art, music, religion and pop culture are examined.

THEATRE 1**Prerequisite:** None 5 CREDITS

Students are introduced to the fundamentals of play production, stage terminology, acting terminology, structure of drama and varieties of drama. The major emphasis in the classroom is on the actual experience of basic acting techniques. This is accomplished through theatre games and improvisational exercises and, later, preliminary instruction and exercise in stage speech. (Performing Arts)

THEATRE 2**Prerequisite:** Theatre 1 5 CREDITS

Character analysis, development, and the experience of "new theatre" exercises provide students with opportunities to become more polished performers. Reading and classroom discussion of the history of drama, stage setting, stage lighting, costuming and makeup enable students to be more knowledgeable in related areas. (Performing Arts)

THEATRE WORKSHOP**Prerequisite:** Theatre 1 & 2 and teacher Recommendation 5 CREDITS

Advanced theatre students are offered a great deal of choice and independent study. They are given opportunities to develop characterizations through script and theme analysis and to act as directors of complete stage productions. (Performing Arts)

MATHEMATICS DEPARTMENT

ALL PLACEMENT CRITERIA LISTED BELOW IS AS OF THE DATE/TIME OF SCHEDULING. Students who want to double up in math should see the supervisor for a waiver (they cannot double in Geometry and Algebra 2). Students wishing to take an AP course must complete an AP Course application. Waivers will not be entertained for AP courses.

Placement for AP Precalculus, AP Calculus AB, AP Calculus BC, and AP Statistics will be based on the criteria outlined in the table below.

Current Level	Quarterly 1 & 2 Exam Average	Semester 1 Grade	Recent Algebra 2 LinkIt Benchmark Form B or Form C Scores
AP = 10	A range = 6	A range = 6	Exceeding = 10
Honors = 7	A-/B+=4	A-/B+=4	Meeting/Bubble = 7
CP = 2	B = 2	B = 2	Approaching = 2

ADVANCED PLACEMENT PRE-CALCULUS

5 CREDITS

Full Year

Advanced Placement Pre-Calculus is designed to prepare students for the Advanced Placement Examination. This course is designed to explore polynomials, rational functions, exponential and logarithmic functions, trigonometric and polar functions, functions involving parameters, vectors, and matrices, and topics involving graphing calculators are considered as well.

ADVANCED PLACEMENT CALCULUS BC

5 CREDITS

Full Year

Advanced Placement Calculus BC is a course is designed to prepare students for the Advanced Placement Examination BC. This course is designed to explore not only the basic topics of differentiation and integration, but graphing, interpretation of graphs, application, theory, proofs, and topics involving the use of the graphing calculator are considered as well.

ADVANCED PLACEMENT STATISTICS

5 CREDITS

Full Year

Advanced Placement Statistics in an advanced course covering the following topics: Analysis and evaluation of data using probability theory as a tool for analysis of a situation, which involves chance including random variables and probability distributions. The use of statistics as a basis for prediction and decision-making via random sampling, hypothesis testing, correlation and regression analysis will also be covered.

ALGEBRA 1

5 CREDITS

Prerequisite: Grade 8 Math

Full Year

This is a full year Algebra 1 course. This course will introduce students to the elementary concepts of Algebra. The student will gain an understanding of the concepts of number and space. The application of mathematics through a study of world problems is emphasized.

FUNDAMENTALS OF COLLEGE ALGEBRA**Prerequisite: Successful completion of**

5 CREDITS

Algebra 1 and Geometry;

Full Year

open to students in Grades**11-12 and/or potential graduates.**

This course is designed to strengthen the algebraic skills of students. There will be a focus on the application of the mathematical concepts and problem-solving. Students who take this class will reinforce mathematics concepts and gain skills that will help them on college entrance exams and prepare them for higher-level mathematics. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 4 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

ALGEBRA 2 HONORS

5 CREDITS

Prerequisite: A- in Algebra 1 Honors;

Full Year

A in Algebra 8 AND**Plane Geometry;****OR****A- in Geometry Honors****AND****Met or****exceeded expectations on****Algebra 1 NJSLA-M/LinkIt****Benchmark****AND****teacher recommendation**

This Algebra 2 course is designed for students who have demonstrated success in both Algebra 1 and Plane Geometry. It offers in-depth coverage of all Algebra 2 topics and moves at a faster pace than Algebra 2. In addition to the topics covered in Algebra 2, a strong emphasis in trigonometry is included.

ALGEBRA 3 AND TRIGONOMETRY

5 CREDITS

Prerequisite: D in Algebra 2

Full Year

Honors OR C or better**in Algebra 2**

This course is designed for students who, while interested in mathematics, have no desire or need for the standard course in Pre-Calculus. The material covered will include some topics from Algebra, factors, determinants, synthetic division, as well as topics from Trigonometry, functions, conic sections.

CALCULUS HONORS

5 CREDITS

Prerequisite: B in Pre-Calculus OR

Full Year

C+ in Pre-Calculus Honors**AND teacher recommendation**

This course includes a non-sophisticated treatment of limits and continuity of functions. The definition of derivative and definite integral are developed in detail. The process of differentiation and integration of algebraic, circular, exponential and logarithmic functions and their applications are studied in depth. Several techniques of integration are explored including algebraic substitutions. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 4 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

MATH 104: ALGEBRA LAB

2.5 CREDITS

Prerequisite: Standardized Test Scores

One Semester

This course is for students who took grade 8 math. Topics from Algebra 1 will be covered with an emphasis on problem solving. Students will receive an intensive review of the basic skills in preparation of the state mandated NJSLA-M Assessment.

MATH 204: GEOMETRY LAB

2.5 CREDITS

Prerequisite: Current enrollment in Plane Geometry AND C- Or lower in Algebra 1 AND/OR not meeting Expectations on NJSLA-M

This course is for students who took Algebra 1 in grade 9. Topics from Geometry 1 will be covered with an emphasis on problem solving. Students will receive an intensive review of the basic skills in preparation of the state mandated NJSLA-M Assessment.

MATH 304

2.5 CREDITS

Prerequisite: Standardized test scores One Semester
This course is designed for those students who still need to attain a graduation requirement. These courses will emphasize and reinforce the New Jersey Student Learning Standards. The student will explore their problem-solving strategies, and they must be able to communicate their solutions in written form.

MATH 404 A (Fall)

2.5 CREDITS

MATH 404 B (Spring)

2.5 CREDITS

Prerequisite: Standardized test scores One Semester
This course is designed for those students who still need to attain a graduation requirement. These courses will emphasize and reinforce the New Jersey Student Learning Standards. The student will explore their problem-solving strategies, and they must be able to communicate their solutions in written form.

PLANE GEOMETRY

5 CREDITS

Prerequisite: Algebra 1 Full Year
This course includes an introduction to basic geometric concepts and an in-depth study and classification of lines, triangles, other polygons and circles. The ideas of proof, including emphasis on congruence and similarity, are stressed.

PLANE GEOMETRY HONORS

5 CREDITS

Prerequisite: B+ in Algebra 1 Honors OR A in Algebra 8; A- or higher on Quarterly Assessments; Met or exceeded expectations on Form C Algebra 1 NJSLA-M/ LinkIt Benchmark; teacher recommendation One Semester

This course is designed for those students who have been accelerated in their study of Algebra 1 or who have been exceptional students in Algebra 1 at the high school. In addition to the topics covered in Geometry, students will be expected to demonstrate independent thinking, as they explore and solve in-depth problems related to the covered topics and their applications. There is a strong emphasis on formal proof.

PRE-CALCULUS

5 CREDITS

Prerequisite: C in Algebra 2 Honors OR B in Algebra 2 CP OR successful completion of Algebra 3/Trigonometry; teacher recommendation Full Year

In this course, students will gain an understanding of the properties of the trigonometric functions and their applications. In addition, students will gain an understanding of Algebra in the solution and classification of the concepts of functions and the conic sections. There will be a review of the fundamentals of Algebra and Geometry that are necessary for understanding the concepts of Trigonometry and Pre-Calculus. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 4 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

PRE-CALCULUS HONORS

5 CREDITS

Prerequisite: A+ in Algebra 2 CP OR B+ in Algebra 2 Honors; A+ on the Algebra 2 Quarterly Assessments; Met or exceeded expectations on Algebra PARCC/NJSLA-M; teacher recommendation Full Year

This course provides an in-depth analysis of functions and their graphs both algebraically and graphically. The emphasis of the course is upon topics, such as trigonometric and logarithmic functions. The properties of arithmetic and geometric sequences will be explored. An introduction to Calculus topics such as limits, continuity and the derivative of polynomial functions is also included. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 4 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

STATISTICS

5 CREDITS

Prerequisite: B- in Algebra 3/ Trigonometry OR C in Pre-Calculus; teacher recommendation Full Year

This course is an introductory, non-calculus-based study of statistics designed as an elective math course. This course will introduce major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will also explore models of quantitative analysis in the natural sciences, the social sciences, business and other disciplines and will learn how and when statistical frameworks can be applied to data to draw conclusions and make predictions. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 3 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

MUSIC DEPARTMENT

ADVANCED JAZZ STUDIES

5 CREDITS

Prerequisite: Audition/Interview

Full Year

& departmental approval

This full year course is designed to meet the needs of the of the serious music student. Course work will contain music theory, improvisation, Big Band and Small Combo jazz styles. Instrumentalists should play one of the following instruments: saxophone, trombone, trumpet, piano, bass, drums, vocalist and/or guitar. Students in this course are expected to perform with the HS Concert band program as well as several festivals throughout the school year. (Performing Art)

BAND

2.5 CREDITS/One Semester

5 CREDITS/Full Year

Prerequisite: Instrumental Proficiency

This is a course for students with previous instrumental experience. Students are expected to perform at various events throughout the school year. (Performing Art)

CHOIR 101

2.5 CREDITS/One Semester

Prerequisite: None

5 CREDITS/Full Year

Geared for the beginning ensemble singer. Each student must participate in at least one after-school rehearsal and an evening performance per semester. (Performing Art)

CHOIR 201

2.5 CREDITS/One Semester

Prerequisite: Choir 101

5 CREDITS/Full Year

or audition

A continuation of Choir 101. Emphasis will be placed upon improving vocal technique, sight reading skills and other fundamentals at an intermediate level. Each student must participate in at least one after-school rehearsal and an evening performance per semester. (Performing Art)

CHOIR 301

2.5 CREDITS/One Semester

Prerequisite: Choir 201

5 CREDITS/Full Year

or audition

In order to enroll in this course, students must have demonstrated a high talent/dedication level. Independent singing will be encouraged and an advanced repertoire will be developed. Each student must participate in at least one after-school rehearsal and an evening performance per semester. (Performing Art)

CHOIR 401

2.5 CREDITS/One Semester

Prerequisite: Audition

5 CREDITS/Full Year

Students will develop skills as a soloist or small group specialist. Repertoire will include Broadway, Jazz, Swing, Pop, Classical and Folk. Students will use state-of-the-art technology to analyze, record and create. Each student must participate in all after school choral events. (Performing Art)

MUSIC TECHNOLOGY 1

2.5 CREDITS

Prerequisite: None

One Semester

An introduction to music computer software. The ability to play an instrument is not required. Skills include composing arranging and recording. Keyboard skills are a plus, but not necessary. (Performing/Practical Art)

MUSIC TECHNOLOGY 2

2.5 CREDITS

Prerequisite: Minimum of a B in

One Semester

Music Technology 1

Designed for advanced music computer users. Students will participate in cross-curricular events such as Theatre, Film, Chorus, Band, etc. Students will receive training in sound equipment and basic recording techniques. (Performing/Practical Art)

RECORDING AND ENTERTAINMENT PRODUCTION

Prerequisite: Grades 11-12; cumulative B

5 CREDITS

average; interview with instructor

Full Year

A cross curricular course designed to introduce student to the different aspects of music/entertainment and record production. Students will join Fedora Productions, a mock entertainment company, and will increase their awareness of intellectual-property rights. Students will delve into Human Resources, Accounting/Finance, Artist/Repertoire Development, Legal, Marketing, Graphic Design, Engineering and more. Students do not need to be musicians to participate in the course. (Performing/Practical Art)

PHYSICAL EDUCATION DEPARTMENT

PLEASE NOTE:

The format for Health and Physical Education requires students to pass health and physical education every year attending high school with the following courses:

- one (1) marking period of Health (Health 9, 10, 11 or 12) **and**
- three (3) marking periods of Physical Education (PE 9, 10, 11 or 12)

PHYSICAL EDUCATION

3 or 3.5 CREDITS

Prerequisite: None

(3) Marking Periods

The Physical Education program consists of a combination of skills, knowledge and assessment with the emphasis placed on participation. A wide variety of activities are taught, ranging from team and individual sports to fitness and wellness of lifelong activities.

HEALTH

Prerequisite: None

1 or 1.5 CREDITS

(1) Marking Period

Marking periods cover a wide range of current health topics ranging from personal health, addictions, disorders, disease, suicide, sexuality, reproduction, peer relationships, nutrition, mental health and overall wellness. State mandates include New Jersey State Driver's Education, CPR/AED lifesaving skills, healthy relationships and dating violence.

SCIENCE DEPARTMENT

All science courses include laboratory experiences.

To be eligible to enroll in two 6-credit lab sciences, students must have a semester average of A in their current Science, Math and LAL courses. Recommendations by teachers for students who would like to take two 6-credit lab sciences will be made based on satisfying the prerequisites for both courses through the supervisor. Waivers will not be entertained for AP Biology, AP Chemistry, AP Environmental Science or AP Physics.

ADVANCED PLACEMENT BIOLOGY

6 CREDITS

Prerequisite: Semester 1 average of A in current SCIENCE AND LAL courses; A- in Biology Honors **OR** A in Biology CP(6); Taking or completed Chemistry CP(6) or higher; completed AP Science application

Advanced Placement Biology is a college level course that is taught at a fast pace. Students taking this course should be responsible and committed to spending extensive time and effort in study. Some topics require independent study. The course is designed to prepare students for the AP exam and uses the College Board AP Biology syllabus for topics and laboratories. Additional activities and laboratories may be included to enrich the course. Students are required to do independent research and oral presentations. Some of the areas covered are Biochemistry, Cytology, Evolution and Genetics, Plant Physiology and Anatomy, Mammalian Anatomy and Ecology. An independent study project will be completed in the summer prior to the course.

ADVANCED PLACEMENT CHEMISTRY

6 CREDITS

Prerequisite: A- in Chemistry Honors **OR** A in Chemistry CP (6); Semester 1 average of A or higher in current MATH AND LAL course; B+ in Algebra 2 CP or higher; completed AP Science application

Advanced Placement Chemistry is designed for the student who has a strong ability in science and mathematics and who has exhibited an interest in acquiring an in-depth knowledge of chemistry. The course offers the student in the in-depth scientific background needed to pursue a career in science. An independent study project will be completed in the summer prior to the course.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

5 CREDITS

Full Year

Prerequisite: Semester 1 average on A in current SCIENCE AND LAL course; B+ in Biology Honors **OR** A in Biology CP (6); B+ in Chemistry Honors **OR** A in Chemistry CP (6); teacher recommendation; completed AP Science application

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving or preventing them.

ADVANCED PLACEMENT PHYSICS

6 CREDITS

Prerequisite: A in Physics **OR** B+ in Physics Honors; B+ in Pre-Calculus; concurrent enrollment in Calculus or higher; teacher recommendation; completed AP Science application

This course follows an Advanced Placement curriculum specifically designed to be a college-like course that follows successful completion of CP Physics. The course covers all traditional fields of physics including mechanics, waves, sound, light, optics, electricity and magnetism. This is a mathematically rigorous study of Physics where students will need an understanding of Algebra and Trigonometry to succeed in this course. An independent study project will be completed in the summer prior to the course.

BIOLOGY HONORS

6 CREDITS

Prerequisite: Semester 1 average of A- in Science 8401 OR A in Science 8402 (for 9th grade); Semester 1 average of A- in Physics or A in Integrated Science (for 10th grade); A- in LAL course; Quarterly Assessment grade of A- or higher in current science course; teacher recommendation; concurrent enrollment in Geometry CP or higher

This lab course is designed for students who have a strong interest in science and the motivation to work hard throughout the school year. Biology Honors includes a more intensive investigation of the Biology CP course topics and is presented at a faster pace. In addition to the course concepts and laboratory work, emphasis will be on higher level thinking skills, writing assignments, oral reports and projects. The curriculum emphasizes topics in molecular biology that include biochemistry, ecology, cytology, genetics, taxonomy and evolution. The weekly two-period lab class focuses on the development of laboratory skills and problems solving through experimentation and student-centered, hands-on activities.

CP BIOLOGY

6 CREDITS

Prerequisite: C in Physics 9 or B in Integrated Science AND in current LAL course; teacher recommendation; concurrent enrollment in Geometry

College Preparatory Biology lab course is designed to offer students a wide scope of experiences in Biological Science. The curriculum emphasizes topics in Molecular Biology that include Biochemistry, Ecology, Cytology, Genetics, Taxonomy and Evolution. The weekly two-period lab class focuses on the development of laboratory skills and problem solving through experimentation and student-centered hands-on activities. This course contains some dissections*.

BIOLOGY CP

5 CREDITS

Prerequisite: Students not meeting requirements for above will be placed in Biology CP (5)

The Biology lab course is designed primarily for students who have difficulty with math and science. The course will offer a sequence of laboratory experiences that will parallel topics discussed in class. The Biology course will cover the same major topics that are presented in CP Biology, but with approximately less rigor in terms of detail and amount of additional topics covered.

CHEMISTRY HONORS

6 CREDITS

Prerequisite: A- or high in Biology Honors; Quarterly Assessment grade of A- or higher in current science course; B in Geometry Honors OR A in Plane Geometry; B in Algebra 1; teacher recommendation; concurrent enrollment or completion of Algebra 2 CP or higher

Chemistry Honors is designed for student who have a strong interest in science and the motivation to work hard throughout the school year. Chemistry Honors includes a more intensive investigation of the Chemistry CP course topics and is presented at a faster pace. In addition to the course concepts and laboratory work, emphasis will be on higher level thinking skills, writing assignments, oral reports and projects. The curriculum emphasizes topics in inorganic chemistry, including atomic structure, chemical bonding stoichiometry, acids and bases, and gas laws. The weekly two-period lab class focuses on the development of laboratory skills and problem-solving through experimentation and student-centered, hands-on activities. In addition to the numerous laboratory experiences there is an emphasis on problem-solving, physical and mathematical modeling, research methods and experimental techniques. Success in this course requires students to have a strong foundation in algebra.

CHEMISTRY CP

6 CREDITS

Prerequisite: B- in Biology CP (6) OR A- in Biology (5); B in current Math course; B- Algebra 1; teacher recommendation; concurrent enrollment in Algebra 2

College Preparatory Chemistry provides students the opportunities to acquire a solid foundation of chemical principles and concepts. The year is devoted to topics in inorganic chemistry, including a foundation based on formula writing, the balancing of equations, stoichiometry, acids and bases, and gas laws. In conjunction with the course content, a laboratory sequence is offered. This sequence parallels the text and affords the opportunity to experience first-hand not only the analyses and problem solving discussed in class, but also the chemical techniques associated with the course. The weekly two-period lab class focuses on the development of laboratory skills and problem solving through experimentation and student-centered, hands-on activities. Success in this course requires students to have a foundation in Algebra.

CHEMISTRY CP

5 CREDITS

Prerequisite: Completion of Algebra 1 and Biology

The Chemistry course is designed primarily for students who have difficulty with math and science. The course will offer a sequence of laboratory experiences that will parallel topics discussed in class. The Chemistry course will cover the same major topics that are presented in Chemistry CP (6 credits) but with appropriately less rigor in terms of detail and mathematical emphasis.

ENVIRONMENTAL SCIENCE

5 CREDITS

Prerequisite: Grades 11-12 students;
successful completion of
Biology and one other
lab science course

Full Year

Environmental Science is a lab science that acquaints the students with the earth: its structure, its resources and man's impact on its sustainability. The Geology component of the course includes the investigations of the geological timetable, plate tectonics, land and water formations, earthquakes and volcanoes, among other topics. The ecological component includes population, conservation and environmental health. The unit on weather includes meteorology and climatology.

FOOD SCIENCE

2.5 CREDITS

Prerequisite: Grades 11-12; Successful
completion of Chemistry
CP or higher

One Semester

Semester lab elective that incorporates nutrition, food processing techniques and procedures. Includes the application of the science concepts and principles such as chemical reactions, physical and chemical properties of food, role of food preservatives, polymer denaturation and food spoilage. Career awareness and planning for success in the food industry/research development/FDA/Hospitality industry is included in this course.

FORENSIC SCIENCE

2.5 CREDITS

Prerequisite: B in Biology CP (6)
or higher

One Semester

Forensic Science is a lab science elective in which students' study and use scientific concepts and technologies related to the investigation of a crime. In this course, students will apply the techniques that professionals use to identify and collect evidence, analyze and compare it, and use the results to locate criminal perpetrators. The course will take you from the crime scene to the laboratory to the courtroom. It should be noted that many criminal acts are, by their very nature, violent. This course is not designed to specifically focus on crimes of a graphic or sexual nature; however, in an effort to provide an accurate and realistic perspective, certain aspects of such behaviors may be unavoidable. In this course you will learn the step-by-step procedures for analyzing hair, fiber, fingernails, chemicals and blood stains; testing for drugs and alcohol; examining DNA samples; and much more. You will also learn how to use specialized forensic equipment, reconstruct a crime scene and prepare a lab report for presentation in court.

HUMAN ANATOMY, PHYSIOLOGY AND DISEASE

Prerequisite: Grades 11-12;

2.5 CREDITS

B- in Biology CP (6) OR
A- in Biology CP (5)

One Semester

Human Anatomy, Physiology and Disease is a lab course in Human Biology designed to give students an awareness of the interrelationships between the human body and its physical and social environments. In addition to the traditional anatomy and physiology covered to provide background, this rigorous course includes the impact on the human body of diseases and disorders. How all of the above can impact on

the next generation is examined. This course provides the opportunity to learn about diagnostic tests, ("blood work" to CAT scans and ultrasound scans), and treatments (by-pass heart surgery to radiation). This course contains some dissections. *

HUMAN ANATOMY & PHYSIOLOGY HONORS

Prerequisite: Entrance into the Biomedical
STEM Academy, or Science
Supervisor approval

5 CREDITS

Full Year

Human Anatomy and Physiology Honors is a course offered primarily to students enrolled in the Biomedical STEM Academy. It is an intensive course designed to give students an in-depth awareness of the human body, its eleven systems, and how they are interrelated. This rigorous course also includes the study of the effects of disease, disorders and the environment on the human body, and the role genetics plays. Testing, diagnostics, treatments and immunizations, and their effects are examined, as well. This course is a Biomedical STEM Academy course.

INTEGRATED SCIENCE

5 CREDITS

Prerequisite: For Grade 9; completion
8th grade science

Full Year

Integrated Science is a lab science course that exposes students to several disciplines. This course explores foundational topics in physics, chemistry and environmental science.

MARINE BIOLOGY

2.5 CREDITS

Prerequisite: B- in Biology CP (6)

One Semester

OR A- in Biology CP (5)

Marine Biology, a lab science, is an introduction for students interested in pursuing this area of study in college or to gain an understanding of the marine environment. The "hands on" course covers the understanding of the oceans, identification and classification of marine animals and plants, environmental factors, marine habitats, water analysis and human interaction and conservation. Students will participate in laboratory activities, field trips and specimen dissections.

PHYSICS HONORS

6 CREDITS

Prerequisite: Semester 1 average of A- in

Full Year

current science course;

Quarterly Assessment grades

of A- or higher in current

science course; B+ in Algebra 2

Honors OR A in Algebra 2 CP;

teacher recommendation;

concurrent enrollment or

completion of Pre-Calculus or

higher

Honors Physics is an extremely rigorous inquiry-based course designed to expand on the principles of how and why the world around us works. The course is designed to find practical applications of physics through experiments, data analysis, problem solving, projects and discussions with an emphasis on mathematical applications. Students will investigate topics of motion, force, energy, waves, sound, light and electricity & magnetism. This course is highly recommended for students considering a career in science or

engineering. Math intensive, Pre-Calculus is infused within the context of the Physics content. The intense rigor of this course should be strongly considered when choosing to enroll. This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.

PHYSICS 11

6 CREDITS

Prerequisite: Open to students in Grades 11-12; semester 1 average of B+ or higher in Chemistry CP6 or B higher in Algebra 2 CP or higher, teacher recommendation

This rigorous Physics course focuses on the application of concepts related to matter and energy through various laboratory experiences. This course will focus on and implement the use of Algebra and Trigonometry in solving problems related to Physics. In the lab, students are acquainted with the collection and analysis of data. Topics include motion and forces, vectors, work and energy, heat, electricity, electromagnetism, waves, sound, light and Modern Physics.

PHYSICS 9

5 CREDITS

Prerequisite: Open to students in Grade 9; semester grade of B in 8401 or B+ in 8402; B+ in Algebra 1 or A- in Algebra 8; quarterly grades of B+ in math;

Physics is the mathematical study of matter and energy at the most basic level. The application of concepts will be developed through demonstrations, real-world applications, problem-solving and experiments. In the lab, the students are acquainted with the collection and analysis of data. This course is focused on the use of Algebra 1 in evaluating problems and investigations in Physics. Topics include Mechanics, Matter, Energy, Light and Sound.

****DISSECTION OPTION STATEMENT***

Participation in hands-on science is important to learning science and dissections are an important compound of life science education. Dissections are recommended study methods in life science courses. Animal materials are used respectfully and for the purpose of meeting course objectives. In cases where parents or students 18 years of age or older object to dissection, teacher will provide alternatives to actual dissections. The alternatives may include, but are not limited to computer simulations, media presentations, transparencies, textbook overlays and reading/research.

If a parent chooses not to have his/her son/daughter take part in dissections, please notify the student's teacher in writing within two weeks of the start of class.

FAMILY AND CONSUMER SCIENCES DEPARTMENT

FOODS & NUTRITION 1

2.5 CREDITS

Prerequisite: Grade 12

One Semester

An introductory course designed to familiarize students with the preparation of basic nutritious foods. Quick breads, cookies, yeast breads, pies and cakes will be introduced. (Practical Art)

FOODS & NUTRITION 2

2.5 CREDITS

Prerequisite: Foods & Nutrition 1

One Semester

An advanced continuation of Foods & Nutrition 1 (Practical Arts)

PARENTING & CHILD DEVELOPMENT

2.5 CREDITS

Prerequisite: Grades 11-12

One Semester

This course is intended for those interested in teaching or caring for children and those interested in child-related occupations. These four areas of child development (physical, emotional, social and cognitive) will be explored. FEA Academy course option. (Practical Art)

TECHNOLOGY DEPARTMENT

All courses involve hands-on activities and are vocational in nature. Safety glasses **MUST** be worn in areas of hazardous activity. A daily cleanup is required. Infractions will result in disciplinary actions and/or removal from the activity with a loss of credit. (Practical Art)

AUTO TECHNOLOGY 1

2.5 CREDITS

Prerequisite: None

One Semester

Students will be introduced to the components of the automobile. Maintenance, emergencies, tune ups and the internal combustion engine are stressed. (Practical Art)

AUTO TECHNOLOGY 2

5 CREDITS

Prerequisite: C- in Auto Technology 1

Full Year

& departmental approval

A continuation of Auto Tech 1. Students will learn advanced skills, including the use of computers and sensors. Auto body repairs, as well as mechanical procedures, are introduced. (Practical Art)

AUTO TECHNOLOGY 3

5 CREDITS

Prerequisite: C- in Auto Technology 2

Full Year

& departmental approval

A continuation of Auto Tech 2. Individualized instruction in student selected projects. Students perform procedures similar to those in established auto repair shops. (Practical Art)

INTRODUCTION TO ENGINEERING

2.5 CREDITS

Prerequisite: Completion of Biology;
Primarily for students
enrolled in the STEM

Academy; A- in Algebra 1;

Students will explore engineering tools and apply a common approach to the solution of engineering problems. Students will plan, document, communicate and develop other professional skills through both individual and collaborative team activities, projects and problems. (Practical Art)

ENGINEERING DRAWING (Eng. Drawing and Architectural Design are now combined)

5 Credits

Prerequisite: None

Full Year

This is a basic course in mechanical drawing skills. Line, weight, identification, dimensioning techniques, three-view drawing and basic blueprint reading are covered. Computer-aided drafting is an integral component. All components of house construction are also covered, including the ability to read and interpret drawings prepared by others. (Practical Art)

ADVANCED ARCHITECTURAL DESIGN 5 CREDITS**Prerequisite:** Engineering Drawing

Full Year

An advanced continuation of Architectural Design. Students will work on floor plans, foundation plans, plot plans, electrical plans, plumbing plans, front, side and rear elevations, interior details, stair details and wall sections. (Practical Art)

ROBOTICS

5 CREDITS

Prerequisite: None

Full Year

Students will learn the basics of the designing, creating and programming of robots. Mathematical and scientific skills will be reinforced. Conditions to modern, real-world issues will be stressed. There will be various student competitions throughout the course. (Practical Art)

WOOD 1

2.5 CREDITS

Prerequisite: None

One Semester

An introductory course in woodworking skills. Hands-on techniques in hand/power tool operation through construction of projects is stressed. (Practical Art)

WOOD 2

5 CREDITS

Prerequisite: Wood 1 and
& departmental approval

Full Year

A continuation of Wood 1. Development of entry-level skills within the carpentry trade. Opportunities to develop skills for personal use and to make a successful transition from school to the workplace will be emphasized. (Practical Art)

WOOD 3

5 CREDITS

Prerequisite: Wood 2 and
& departmental approval

Full Year

A continuation of Wood 2. Advanced construction techniques related to cabinetry and residential and commercial constructions are highlighted. Specific areas such as kitchens, bathrooms and remodeling will be emphasized as well. (Practical Art)

WORLD LANGUAGE DEPARTMENT**SPANISH 1 / FRENCH 1**

5 CREDITS

Prerequisite: None

Full Year

Students will master the basic skills of listening, speaking, reading and writing in the target language. An appreciation of the culture, mores and civilization of the language is also introduced.

SPANISH 2 / FRENCH 2

5 CREDITS

Prerequisite: Successful completion of
the Level 1 course

Full Year

A continuation of level 1. A reinforcement of the skills learned in the level 1 course, including an emphasis on the development of fluency in the language.

SPANISH 3 / FRENCH 3

5 CREDITS

Prerequisite: Teacher recommendation;
B+ for semester one;

Full Year

A continuation of level 2. A further development of aural, oral and reading skills. Literary short stories and novellas are introduced. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

SPANISH 4 / FRENCH 4

5 CREDITS

Prerequisite: B in Level 3; teacher
recommendation; B+ for
semester one

Full Year

A continuation of level 3. Conversations and an appreciation of literature in the target language are emphasized. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

ADVANCED PLACEMENT SPANISH

5 CREDITS

Prerequisite: B for Semester 1 in Level 4
and teacher recommendation

Full Year

Students who have indicated a level of fluency will be eligible for the course. The curriculum is geared to the development of the advanced language skills necessary to prepare for the Advanced Placement Examination.

AMERICAN SIGN LANGUAGE I/II

5/10 CREDITS

**Through Middlesex College HS Scholars Program
Grades 10-12**

Students who are 15 years or older may earn credits and fulfill the World Language requirement for graduation by taking American Sign Language at Middlesex College. Approved courses include ASL 121, ASL 221 and ASL 122. An application must be submitted to your counselor and approved by the department supervisor before taking the class. Upon completion, the student must submit an official college transcript to their counselor for high school credits to be awarded. The student is responsible for the cost of the course set by Middlesex College approximately \$125.00.

ADDITIONAL OFFERINGS

AIR FORCE JUNIOR ROTC

5 CREDITS

Prerequisite: None

Full Year

This course will apply principles of science learned in other course such as earth science, biology, chemistry and physics. The major units covered include: the aerospace environment, the human requirements of flight, the principles and physics of aircraft flight, weather and navigation. Students are provided detailed instruction on ceremonial performances and protocol for civilian and military events and have the opportunity to personally learn drill. Most of the work will be hands-on. Students WILL wear the Air Force JROTC uniform weekly on the designated uniform day and the issued PT uniform on Fridays. (Practical Art)

AVIATION GROUND SCHOOL (Not being offered 2023-2024)

5 CREDITS

Prerequisite: At least one year of

Full Year

AFJROTC;

teacher recommendation

This course is the foundation for students interested in receiving a private pilot's license. The material covered is an advanced, more in-depth study of aerospace topics covered in AFJROTC and is taught as the Aerospace Science component of AFJROTC class. The curriculum is designed as part of a pathway towards careers in aviation.

APEX LEARNING: INDIVIDUAL ONLINE COURSES FOR CREDIT

Prerequisite: Grade 12 (see below for prerequisites for specific courses)

Apex Learning offers rigorous, standards-based online courses that meet high school graduation requirements. These courses provide students the option to take one their courses virtually to meet the occasional scheduling conflict, or to provide an online course in a subject area not currently offered in the traditional classroom setting. Apex Learning offers a comprehensive course catalog and subject certified teachers. The following courses are currently available:

Semester Courses: 2.5 Credits Full Year Courses: 5 Credits

AP Government and Politics

Latin***

AP Macroeconomics*

AP Microeconomics*

AP Psychology**

College and Career Prep

Multicultural Studies

* Successful completion of Financial Literacy in the 21st

Century (Economics) is the prerequisite for

AP Macroeconomics and AP Microeconomics

** Successful completion of Social Foundations of Human

Behavior is the prerequisite

for AP Psychology

***Successful completion of German, Latin or Mandarin

Chinese fulfills the HS Graduation Requirement for

World Language

WORK BASED LEARNING

5 CREDITS

Prerequisite: Must be recommended

Full Year

by Child Study Team

The Work Based Learning (WBL) provides students experiential, supervised, in-depth learning experiences. It is designed to offer students the opportunity to explore career interests, in and around the school setting. The course allows for multiple hands-on opportunities, including but not limited to on-campus work experiences, job shadowing and field trips. The overall goal will be to develop 21st century life and career skills which will enable students to make informed decisions that prepare them to engage as active citizens in a global society, and to successfully meet the challenges and opportunities of the 21st century global workplace. Experience within the school setting will prepare students for Work Based Learning course and/or the workplace by exposing them to the skills necessary to become a worker in the dynamic global society.

Academies

Visual Arts Career Academy

The art strand of this academy offers a comprehensive course sequence for students who may be interested in pursuing a career in the art field. The list below is only a small sample of art related careers.

Professional Artist
Game Designer
Art Gallery Curator

Graphic Designer
Fashion Designer
Graphic Art Technician

Illustrator
Architect
Marketing/Advertising

Animator
Art Teacher

**** All incoming 9th and 10th grade students are invited to apply to the Visual Arts Career Academy****

Academy students will have the opportunity to explore their creativity, expand their talents, and acquire skills and techniques needed to pursue careers and/or admission to competitive college art programs,

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Required course:	Choose two of the following courses	Choose one of the following courses	Choose one of the following courses
Intro. to Art (2.5)	Drawing (2.5)	Advanced Art (5.0)	Capstone Portfolio (5.0)
Choose one additional course:	Jewelry 1 (2.5) (Not offered 2023-2024)	Art Workshop (5.0)	AP Art History (5.0)
Creative Crafts (2.5)	Jewelry 2 (2.5)	Intermediate Art (5.0) (Pending new name)	
Digital Art (2.5)	Painting (2.5)		
Fashion Illustration (2.5)	Sculpture & Ceramics 1 (2.5)		
	Sculpture & Ceramics 2 (2.5)		
	Stained Glass (2.5)		

Biomedical STEM Academy

The Biomedical STEM (Science, Technology, Engineering and Math) Academy at Sayreville War Memorial High School is a demanding four-year college preparation program that offers highly motivated students who are ready to pursue STEM and related careers a focused curriculum in these areas. Students follow a rigorous course sequence that satisfies all district graduation requirements with an emphasis on STEM and Advanced Placement courses, providing them with experiences, skills and values in line with the 21st century workplace.

Students must apply for entry into either STEM Academy through the following google form:

<https://forms.gle/v5y2N1ZXDEGWgiTY8>

Required Science Courses	Required Math Courses	Required Culminating Course
Biology Honors	Geometry Honors	STEM Capstone (5.0)
Chemistry Honors	Algebra 2 Honors	
AP Biology	Pre-Calculus Honors or AP Pre-Calculus	
AP Chemistry	Calculus Honors or AP Calculus AB or BC	
Physics		
Anatomy & Phys. Honors		



SAYREVILLE WAR MEMORIAL HIGH SCHOOL BUSINESS ACADEMY

TO EMPOWER STUDENTS OF TODAY TO BECOME BUSINESS LEADERS OF TOMORROW

A SWMHS student can major in one of the two following strands: Accounting or Marketing

The Sayreville War Memorial High School Business Academy provides a school to college or school to career preparation for multiple careers in business through a core curriculum emphasizing leadership, marketing, management, strategic thinking, problem solving, volunteerism and the opportunity to earn college credit and competitive experience.

Business Academy – CTE Accounting Track

Grades 9/10 required courses	Grade 11 required courses	Grade 12 required courses
Financial Literacy (2.5)	Financial Accounting Honors (5.0)	Managerial Accounting Honors (2.5)
Business Organization (2.5)		Business Capstone (2.5)
5 Credits in Performing Arts		

Business Academy – CTE Marketing Track

Grades 9/10 required courses	Grade 11 required courses	Grade 12 required courses
Financial Literacy (2.5)	Essentials of Marketing 1 (2.5)	Sports Ent. Marketing (2.5)
Business Organization (2.5)	Essentials of Marketing 2 (2.5)	Business Capstone (2.5)
5 Credits in Performing Arts		

National Business Honors Society

After the first two years in the Business Academy, students can qualify for the SWMHS chapter of National Business Honors Society. The standards of the N.B.H.S

- Student must be a high school junior or senior
- Student must have completed or be enrolled in his/her third business course
- Student must have a minimum standard overall GPA of 3.0
- Student must have a GPA average of 3.5 in Business Courses
- Student must complete an essay that best describes the character
- Student must complete the leadership/service activities/ employment history

Externship Experience (Open to sophomores only)

RUTGERS UNIVERSITY BUSINESS FOR YOUTH THE RUBY PROGRAM (RUBY) program is to provide high school students with an experiential learning opportunity to supplement the teachings in their high school business program and prepare them for college. The goal of the experiential learning experience through the RUBY Program is to provide the following:

1. Adequate exposure within (as well as beyond) the students' school environment, to the potential business opportunities
2. Potential rewards to motivate the students to take advantage of these opportunities
3. Resources the students need to become successful business leaders.

The RUBY Program involves a business plan competition, on-campus classes (including college preparation lessons), visits to corporate facilities, interaction with current Rutgers Business School students (mentor relationships), soft skills development (i.e., team building, interviewing and presentation skills), and involvement of parents which will develop direction towards a "culture" of high performance



STEM ACADEMY COURSE OF STUDY – COMPUTER SCIENCE

EMPOWER STUDENTS OF TODAY TO BECOME DIGITAL INNOVATORS OF TOMORROW

Students will be selected for the Computer Science Academy through an application-based process.
The table below is a schedule that a CS Academy will follow during their time at the high school.

Computer Science STEM Academy CTE Information Technology Track

Grades 9	Grade 10 required course	Grade 11 required course	Grade 12 required course
5 Credits in Performing Arts	AP Computer Science Principles (5.0)	Front End Web Design (2.5)	AP Computer Science A (5.0)

Computer Honors Society

The criteria for a student to be accepted into Computer Honors Society

- Completed application
- Student is a member of the SWMHS Computer Science Academy
- Completed at least 3 Academy/CS classes
- Student has a 3.0 GPA in Academy/CS classes
- Student has not been suspended since entering HS and is not banned from Honor Societies
- Student is Junior or older
- Student has no more than 20 absences per year
- Student has not achieved a grade below a 75 in any course.

Engineering STEM Academy

The Engineering STEM (Science, Technology, Engineering and Math) Academy at Sayreville War Memorial High School is a demanding four-year college preparation program that offers highly motivated students who are ready to pursue STEM and related careers a focused curriculum in these areas. Students follow a rigorous course sequence that satisfies all district graduation requirements with an emphasis on STEM and Advanced Placement courses, providing them with experiences, skills and values in line with the 21st century workplace.

Students must apply for entry into either STEM Academy through the following google form:

<https://forms.gle/v5y2N1ZXDEGWgiTY8>

Required Electives	Choose 4 of the following Math courses	Required Science Courses
Intro. To Engineering (2.5)	Geometry Honors	Biology Honors
Engineering Drawing (5.0)	Algebra 2 Honors	Chemistry Honors
Robotics (5.0)	Pre-Calculus Honors	Physics
Adv. Architectural Design (5.0)	Calculus Honors	Choose 2 AP Science Courses
Required Culminating Course	AP Pre-Calculus	AP Biology
STEM Capstone (5.0)	AP Calculus AB	AP Chemistry
	AP Calculus BC	AP Environmental Science

Future Educators Academy

Sayreville War Memorial High School Academy for aspiring educators provides a focused course sequence that appeals to students who are interested in exploring a future in education. FEA is designed to prepare students for multiple opportunities within the profession of education. A future educator can specialize in many different areas in today's world. This includes a classroom teacher, a museum educator, a school psychologist, a speech pathologist, an occupational therapist, or a special educator, to name a few

The FEA program provides students with knowledge about how and why one would want to become an educator, not just any educator, but a well-prepared, committed, engaged, skilled, effective and creative educator. This program explores the world of education: past, present, and future. In addition, this academy investigates the accomplishments of previous educators, as well as historical accounts that will help one understand the business of education. For instance, how are schools funded? Who is in charge? How do schools impact society? How can technology enhance and promote learning? Moreover, the FEA program will also closely examine the student. That is, how students change physically, intellectually, emotionally, and socially as they grow and mature. The program culminates with enrollment in Tomorrow's Teachers capstone course where academy students gain field experience throughout the Sayreville School District and surrounding communities.

Choose 2 of the following elective courses	Required courses
Children's Literature (2.5)	Introduction to Tomorrow's Teachers (2.5)
Communicating in the 21 st Century (2.5)	Tomorrow's Teachers Honors (5.0)
Parent/Child Development (2.5)	



Dual Enrollment Opportunities

The Dual Enrollment program provides high school students the opportunity to earn both high school and college credit for courses that have been approved by Middlesex College.

Tuition for any 3- or 4-credit course will be \$125 for those attending Middlesex College while still in high school.

***Note: Registration is completed online directly in the Middlesex College site, unless otherwise noted. Registrations submitted after your district's enrollment deadline will be accepted.**

Middlesex Course Codes	MC Course Titles	SWMHS Course Codes	SWMHS Course Titles	# Middlesex Credits
ACC 101	Financial Accounting	95461	Financial Accounting Honors	4
ACC 102	Managerial Accounting	95561	Managerial Accounting Honors	4
CSC 125	Web Markup Languages	93522	Front End Web Design	3
ENG 121	English Composition 1	91441	English 12 Honors	3
MAT 116	College Algebra	93342	Fundamentals of College Algebra	3
MAT 123	Statistics 1	93270	Statistics	3
MAT 129	Pre-calculus	93262	Pre-calculus	4
MAT 131	Analytic Geometry & Calculus 1	93282	Calculus	4
SPA 221	Intermediate Spanish 1	90310	SWMHS Spanish 3	3
SPA 222	Intermediate Spanish 2	90320	SWMHS Spanish 4	3
CSC 161	Comp. Science w/ Java	93511	AP Comp. Science A	4
PHY 101	Principles of Physics		Physics 11	4
CSC 105	Computer Applications & System	93521 93390	AP Computer Science Principles Computer Science Principles	3
BUS 101	Intro to Business		Business Organization	3

Middlesex College cannot guarantee transfer of any course(s) taken for credit. Please check njtransfer.org or inquire with the receiving institution(s) prior to registration.



Do you want to make your high school years more memorable?

Here's your chance to do just that - join the Air Force Junior Reserve Officer Training Corps (AFJROTC). You'll Learn about the Air Force, its heritage and traditions, applied flight sciences, military aerospace policies and space exploration, plus you'll have opportunities to develop your leadership skills.

The objectives of AFJROTC are:

- To educate and train high school cadets in citizenship and Life skills.
- Promote community service;
- Instill responsibility, character and self-discipline through education and instruction in air and space fundamentals and the Air Force's core values of Integrity First, Service Before Self and Excellence In ALL We Do

