

**Sayreville War Memorial
High School
Course Description Book
2022 – 2023**



**Sayreville War Memorial High School
Office of Guidance and Counseling
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Counseling Staff***

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Ms. Paula Schnorbus	Counselor	Cas-Fon	Grades 9-12
Mr. Joseph Schlaline	Counselor	Foo-Ka	Grades 9-12
Mrs. Kimberly Gibson	Counselor	Ke-Mh	Grades 9-12
Mrs. Meredith Goodman	Counselor	Mi-P	Grades 9-12
Ms. Kaila O'Donnell	Counselor	Q-Sm	Grades 9-12
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***District
Supervisors & Directors***

Mrs. Donna Sicola	Counseling and Guidance
Ms. Donna Jakubik	Social Studies, Financial Literacy, Visual & Performing Arts
Dr. Cynthia Defina	Secondary Special Education
Mrs. Kimberly Grossman	English Language Arts, World Languages, ELL
Ms. Jennifer Badami	Health, Physical Education, Athletics
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 2022-2023 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 (S2)
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	Language Arts	Full Year
Wood 1	Technology	Semester
World Geography	Social Studies	Semester
Writing Success	Language Arts	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.

Graduation Test Requirements - Classes of 2023 through 2025

The requirements in this section were adopted by the New Jersey State Board of Education on September 8, 2021 for the classes of 2023-2025.

ELA

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

- Pathway 2: By meeting the designated cut score on a substitute competency test (see Table 5 under Pathway 2 below); or
- Pathway 3: By submitting, through the district, a student portfolio appeal to the New Jersey Department of Education.

Mathematics

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

- Second Pathway: By meeting the designated cut score on a substitute competency test (see Table 5 under Second Pathway below); or
- Third Pathway: By submitting, through the district, a student portfolio appeal to the New Jersey Department of Education.

Pathways Available

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.

A student with disabilities whose IEP states that they are not eligible for the alternate assessment (Dynamic Learning Maps) must take the New Jersey Graduation Proficiency Assessment in grade 11.

Table 4: First Pathway — New Jersey Graduation Proficiency Assessment

ELA	Mathematics
New Jersey Graduation Proficiency Assessment-ELA	New Jersey Graduation Proficiency Assessment - Mathematics

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 Table 5 on the next page.

Important Notes:

- Tests marked with an asterisk (*) are no longer administered but can be used for the graduating year.
- Beginning on Monday, January 28, 2019, classic ACCUPLACER tests were no longer available. QAS replaced ACCUPLACER Elementary Algebra

Table 5: Second Pathway – Menu of Substitute Competency Tests

ELA	Mathematics
<p>One of the following:</p> <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) • ACT Reading or ACT PLAN Reading* • ACCUPLACER Write Placer • ACCUPLACER Write Placer 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 	<p>One of the following:</p> <ul style="list-style-type: none"> • NJSLA/PARCC Algebra 1 • 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 • 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.

Table 6: 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 2023) 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; Full Year
Introduction to Art or department 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; Full Year
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 (Single Period)
10 CREDITS (Double Period)
Prerequisite: A- or above in Advanced Art; Full Year
Department/Supervisor 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 One Semester
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: Introduction to Art One Semester
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 One Semester
This course enables students to understand, analyze and draw fashion figures from different views. Skills will be developed to create unique designs. (Performing Art)

INTERMEDIATE ART 5 CREDITS
Prerequisite: Grades 10-12; Full Year
B+ or above in Intro to Art
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)

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 AND METAL WORKING 1 2.5 CREDITS
Prerequisite: Grades 10-12 given One Semester
preference
Introduces students to the basic techniques of metal working/jewelry making. Techniques include piercing, sawing, riveting and soldering. (Performing Art)

JEWELRY AND METAL WORKING 2 2.5 CREDITS
Prerequisite: Jewelry and Metal One Semester
Working 1
An advanced continuation of Jewelry and Metal Working 1. (Performing Art)

SCULPTURE AND CERAMICS 1 2.5 CREDITS
Prerequisite: Grades 11-12 given One Semester
preference
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 2.5 CREDITS
Prerequisite: Grades 11-12 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)

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

2.5 CREDITS

Prerequisite: None

One Semester

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

ESSENTIALS OF MARKETING 1

2.5 CREDITS

Prerequisite: Grades 10-11; B in

One Semester

English 9 CP or higher

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

2.5 CREDITS

Prerequisite: Grades 10-11; Must have taken Essentials of

One Semester

Marketing 1;

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 in

2.5 CREDITS

Financial Accounting

One Semester

Honors

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. (Practical Art)

COOPERATIVE WORK EXPERIENCE SEMINAR

Prerequisite: Grade 12; Prior to senior

10 CREDITS

year students must have

Full Year

completed 95 credits; must

must have passed all sections of Standardized Testing

requirements; Minimum GPA:

2.5; Students will apply to the

Co-Op Coordinator for approval

This is a cooperative program between 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. (Practical Art)

Students must take and demonstrate proficiency on the NJGPA or demonstrate proficiency by meeting the designed cut score on one of the ELA and Math assessments on the menu of substitute competency tests.

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)

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. (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. (Practical Art)

FRONT END WEB DEVELOPMENT 2.5 CREDITS
Prerequisite: Intro to Computer Science; One Semester
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. (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. (Practical Art)

HISTORY DEPARTMENT

WORLD HISTORY HONORS 5 CREDITS
Prerequisite: Minimum of an A- in level Full Year

**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 2022 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 Full Year
English and 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. 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 2022 English Benchmark Assessment
Honors History =10 pts. Honors English =10 pts.	A range=5	A range=5	A range=10	Exceed Expectations =10
CP History =5 pts. CP English =5 pts.	B+=3	B+=3	B+=5	Met 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 2022 ELA benchmark;
Teacher recommendation

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

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

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 2022 Benchmark AP
application

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
or A in US History 1 CP;
Met/ Exceed expectations on
January 2022 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
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
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

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

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

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

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

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

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 review; teacher recommendation Full Year

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 2.5 CREDITS
Prerequisite: Grade 11 One Semester

B+ or above in Children’s Literature or Communicating in the 21st Century; 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 current English class;
 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.

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 NJSLA 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 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 will be placed in a full year required remediation course as outlined by NJDOE policies.

LAL SKILLS 11 & 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.

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 5 CREDITS
Prerequisite: CATV 3 and teacher approval 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 2.5 CREDITS
Prerequisite: None 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 2.5 CREDITS
Prerequisite: None 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. (Performing/Practical Art)

JOURNALISM 2.5 CREDITS
Prerequisite: None 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 2.5 CREDITS
Prerequisite: None 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 2.5 CREDITS
Prerequisite: None 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.

PREPARING FOR THE SAT 2.5 CREDITS
Prerequisite: Grades 10-12 One Semester
A must-take course for students wanting to prepare for the college entrance exam. Explore reading strategies, vocabulary and writing skills needed to be successful.

WRITING SUCCESS 2.5 CREDITS
Prerequisite: None One Semester
Designed to help students develop writing skills with a concentrated focus on expository skills. Topics include writing persuasively, expository writing skills and test prep tips and tricks to help with standardized assessments.

THEATRE 1 5 CREDITS
Prerequisite: None Full Year
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

5 CREDITS

Prerequisite: Theatre 1

Full Year

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

5 CREDITS

Prerequisite: Theatre 1 & 2 and teacher Recommendation

Full Year

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 SCHEDLING.

Students who want to double-up in math should see the supervisor for a waiver (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 Calculus AB, AP Calculus BC and AP Statistics will be based on the criteria as 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 CALUCLUS AB

5 CREDITS

Full Year

Advanced Placement Calculus AB is a course designed to prepare students for the Advanced Placement Examination AB. 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 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.

Juniors currently taking

Calculus Honors or AP

Calculus AB can also apply

to take AP Calculus BC in

their senior year

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

B+ in Geometry Honors

AND

B or higher on Geometry

Quarterly Assessment; 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: Completion of 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 One Semester
Plane Geometry AND C-
Or lower in Algebra 1
AND/OR not meeting
Expectations on
PARCC/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 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 have not attained a graduation requirement. These courses will emphasize and reinforce the New Jersey Student Learning Standards. 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 One Semester
A in Algebra 1; A- or
higher on Quarterly
Assessments; Met or
exceeded expectations on
Form C Algebra 1 NJSLA-M/
LinkIt Benchmark;
teacher recommendation

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

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 Full Year
in Algebra 2 Honors; B on
the Algebra 2 Quarterly
Assessments; Met or
exceeded expectations on
Algebra PARCC/NJSLA-M;
teacher recommendation

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.**

PREPARING FOR THE SAT 2.5 CREDITS
Prerequisite: Grades 10-12 One Semester
This must-take course for students wanting to prepare for the college entrance exam addresses necessary skills in mathematics and English Language Arts. Following an A/B schedule, students will work with a math and English teacher to prepare for this high stakes exam. Test practice materials are reviewed as well.

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
teacher recommendation** Full Year

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, vocalists 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: Mixed Choir 101 5 CREDITS/Full Year
or audition

A continuation of Mixed 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: Mixed 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 coral events. (Performing Art)

MUSIC TECHNOLOGY 1 2.5 CREDITS
**Prerequisite: Interview with instructor:
Basic Music Theory Exam** 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: Music Technology 1 One Semester
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 Full Year
instructor

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 1 or 1.5 CREDITS

Prerequisite: None (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 Full Year

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 Full Year

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 5 CREDITS

ENVIRONMENTAL SCIENCE Full Year

Prerequisite: Semester 1 average on B+ 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 Full Year

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 (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 student the opportunity 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; Full Year
successful completion of
Biology and one other
lab science course

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 One Semester
completion of Chemistry
CP or higher

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.

FORENSIC SCIENCE 2.5 CREDITS
Prerequisite: B in Biology CP (6) One Semester
or higher

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 2.5 CREDITS
Prerequisite: Grades 11-12; One Semester
B- in Biology CP (6) OR
A- in Biology CP (5)

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. *

INTEGRATED SCIENCE 5 CREDITS
Prerequisite: For Grade 9; completion Full Year
8th grade science

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)

Marne 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.

PHYSICS 11 6 CREDITS
Prerequisite: Open to students in Grades Full Year
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; Full Year

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.

SCIENCE IN SOCIETY: LIFE SCIENCE EDITION

Prerequisite: Grades 11-12

2.5 CREDITS

One Semester

In this hands-on science laboratory course, students will explore the strange and wonderful aspects of biology. Scientific concepts learned in previous science classes will be applied to develop a deeper understanding of science in our everyday lives. Students will practice the scientific method by designing their own experiments and analyzing the resulting data. Students will distinguish between fact and opinion while deciding where they stand on controversial scientific issues that affect the public. Topics are determined based upon student and instructor interest and may be based, in part, on current events. Topics will inevitably include branches of brain science due to its popularity with students.

SCIENCE IN SOCIETY: ENERGY & TECHNOLOGY EDITION

2.5 CREDITS

Prerequisite: Grades 11-12

One Semester

This class begins with a study of flames and energy through a variety of hands-on experiments that use the scientific method. Further topics are selected by students in the class by a vote or survey. Scientific concepts learned in previous science classes will be applied to develop a deeper understanding of science and technology in our everyday lives. Students will practice the scientific method by designing their own experiments and analyzing the resulting data. Students will distinguish between fact and opinion while deciding where they stand on controversial scientific issues that affect the public. Topics will inevitably include engineering and building of structures, such as towers and bridges, due to their popularity with students.

****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. (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 and teacher recommendation Full Year
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 and teacher approval Full Year
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; One Semester
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 5 CREDITS
Prerequisite: None Full Year
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. (Practical Art)

ARCHITECTURAL DESIGN 5 CREDITS
Prerequisite: B in Engineering Drawing Full Year
House construction components are studied in this course. Footings, foundation, framing and roof construction are examined. Students develop the ability to read and interpret drawings prepared by others. Computer-aided drafting equipment will be used. (Practical Art)

ADVANCED ARCHITECTURAL DESIGN 5 CREDITS
Prerequisite: Architectural Design 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 teacher recommendation 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 teacher recommendation 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. Spanish 3 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. Spanish 4 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 5 CREDITS
Prerequisite: At least one year of AFJROTC; teacher recommendation Full Year

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 by Child Study Team Full Year

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

FUTURE EDUCATORS ACADEMY: FEA

Program Description

The 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. Students may apply for acceptance to FEA in the Spring of their 8th grade year or Spring of grade 9.

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.

FUTURE EDUCATORS ACADEMY COURSE OF STUDY

Grade 9 or 10

Academy Endorsement Course Work:

Must take one of the Two courses below:

Children's Literature OR	2.5 Credits 1 Semester
Communicating in the 21 st Century	2.5 Credits 1 Semester
Practical Arts Credits	

Grade 11

Introduction to Tomorrow's Teachers	2.5 Credits 1 Semester
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Grade 12

FEA- Tomorrow's Teachers Field Experience	5 Credits Full Year
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CHILDREN'S LITERATURE

2.5 CREDIT

Prerequisite: None

One Semester

Children's literature will be used to explore a variety of genres and give students the opportunity to explore popular with a fresh perspective.

COMMUNICATING IN 21ST CENTURY

2.5 CREDITS

Prerequisite: None

One Semester

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

PARENTING AND CHILD DEVELOPMENT

Prerequisite: Grade 11-12

2.5 CREDITS

One Semester

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

INTRODUCTION TO TOMORROW'S TEACHERS

Prerequisite: Grade 11

2.5 CREDITS

One Semester

B+ or above in Children's Literature or Communicating in the 21st Century; Students enrolled in the Future Educators Academy will be given preference. 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.

FEA: TOMORROW'S TEACHER

HONORS

5 CREDITS

Prerequisite: Grade 12; B+ or above in Intro to Tomorrow's Teachers AND department approval

Full Year

An Honors course that studies the history, development, organization and practice of preschool, elementary and secondary education. Students will learn about educational theory, teaching techniques/strategies, as well as student learning needs and styles. Students will be placed in actual day-to-day operations of a school environment as well as apply knowledge learned in the course supervised by a cooperating teacher.



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

ACCOUNTING STRAND

SWMHS student majoring in Accounting will take the following courses:

- Business Organization and Management
- Financial Accounting Honors
- Managerial Accounting Honors
- Capstone

Business Academy Student – Accounting Track

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Semester 1	Band/Visual and Performing Arts	Financial Literacy	Financial Accounting Honors	Managerial Accounting Honors
Semester 2	Band/Visual and Performing Arts	Business Organization	Financial Accounting Honors	Business Capstone

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.

Students in the Business Academy are offered multiple club opportunities like DECA, FBLA and NBHS; through which they can connect with their peers, grow their skills to emerge as leaders and entrepreneurs for careers in marketing, finance, hospitality and management through competitive events and real-world experiences.

The Sayreville Business Academy also has an Articulation Agreement through Middlesex College where students earn college credits in Financial Accounting Honors.

Student in the Business Academy are able to gain Structured Learning experiences through the Co-Op program where they are hired by the school district and many of the businesses in the local community. This program assists students to make

the school-to-work transition, service learning and experiential learning initiatives.

Business-persons are regular visitors to the classroom to provide real world knowledge and experience consisting of guest speaking and mentorships for Business Academy students. Throughout the academy, there are opportunities to take part in job shadows (day at a business), office visits and field trips to expose students to the world of work and industries.

BUSINESS ORGANIZATION AND MANAGEMEMNT

Prerequisite: None Grades 9–12 2.5 Credits

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

FINANCIAL LITERACY IN THE 21ST CENTURY

Prerequisite: None Grades 9-12 2.5 Credits

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.

FINANCIAL ACCOUNTING HONORS

Prerequisite: B in Algebra 2 Grades 10-12 5 Credits

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. (Practical Art)

BUSINESS CAPSTONE

Prerequisite: None Grade 12 2.5 Credits

This course is offered to students who are enrolled in the CTE Accounting 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, students 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.

Project Requirements for SBA and Externship Capstone Project – Accounting Major

1. One Simulation project in Business Organization and Management
2. CTE Industrial Certification
3. Capstone week in May/June, each SBA senior delivers an oral presentation of their externship experience to fellow members of the Academy.
- 4.

MARKETING STRAND

SWMHS students majoring in Accounting will take the following courses.

- Business Organization and Management
- Essentials of Marketing 1
- Essentials of Marketing 2
- Sports and Entertainment Marketing
- Capstone

Business Academy Students – Marketing Track

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Semester 1	Band/Visual and Performing Arts	Financial Literacy	Essentials of Marketing 1	Sports and Entertainment Marketing
Semester 2	Band/Visual and Performing Arts	Business Organization	Essentials of Marketing 2	Business Capstone

BUSINESS ORGANIZATION AND MANAGEMENT

Prerequisite: None Grades 9-12 2.5 Credits

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

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.

FINANCIAL LITERACY IN THE 21ST CENTURY

Prerequisite: None Grades 9-12 2.5 Credits

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.

ESSENTIALS OF MARKETING 1

Prerequisite: B in English 9

Grades 10-12 2.5 Credits

Preparing students for marketing occupations involving complex duties and decision-making processes. Students are statement analysis. (Practical Art)

ESSENTIALS OF MARKETING 2

Prerequisite: Essentials of Marketing 1

Grades 10-12 2.5 Credits

An overview of the field of marketing and the marketing concept. Students develop an understanding of the growing importance of the consumer, difference between industrial and consumer marketing, the impact of government and environment on marketing, and the basic marketing functions of product planning, marketing channels, physical distribution, promotion, pricing, and marketing research.

BUSINESS CAPSTONE

Prerequisite: None Grades 12 2.5 Credits

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.

Project Requirements for SBA and Externship Capstone Project– Marketing Major

1. One Simulation project in Business Organization and Management
2. CTE Industrial Certification
3. Capstone week in May / June, each SBA senior delivers an oral presentation of their externship experience to fellow members of the Academy.

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.

ADVANCED PLACEMENT COMPUTER SCIENCE A
5 CREDITS
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 abstraction, data abstraction, object-oriented design and programming methodology using the Java programming language, and the use of algorithms and data structures.

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES
5 CREDITS
Full Year

Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. (Practical Art)

FRONT END WEB DESIGN
Prerequisite: Computer Science 2.5 CREDITS
Principles; One Semester
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 County 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. (Practical Art)

PYTHON PROGRAMMING 2.5 CREDITS
Prerequisite: Computer Science One Semester
Principles;
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)

Computer Science Academy students must be member of Technology Student Association, Computer Club, IT Girls Club, and Computer Honors Society and participate in Computer Science ED Week. The table below is a schedule that a CS Academy will follow during their time at the high school.

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Semester 1	Band/ Visual and performing arts	Advanced Placement Computer Principles	Front End Web Design	Advanced Placement Computer Science A
Semester 2	Band/ Visual and performing arts	Advanced Placement Computer Principles	Computer Science 2 (Python Programming)	Advanced Placement Computer Science A

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/IT classes
- Student has a 3.0 GPA in Academy/IT classes
- Student is Junior or older
- Student has not been suspended since entering HS and is not banned from Honor Societies
- Student has not achieved a grade below a 75 in any course.
- Student has no more than 20 absences per year

SAYREVILLE WAR MEMORIAL HIGH SCHOOL VISUAL AND PERFORMING ARTS CAREER ACADEMY

SWMHS is proud to announce our first strand of the academy starting September 2022: Visual Arts.

Incoming 9th and 10th grade students are welcome to join this academy.

It is recommended that current 8th and 9th grade students interested in joining the academy select Introduction to Art for the 2022-2023 school year.

Current 9th grade students who have already taken Introduction to Art should select Intermediate Art for the 2022-2023 school year.

Students interested in joining the academy must complete the google form:

<https://forms.gle/7Wi4ZiMLxGxmWFJ88>.

Sequence of courses to be completed prior to High School graduation.

Mandatory Courses: 15 Credits

Course	Credits	
Introduction to Art	2.5	Open to 9 th and 10 th grade academy students
Digital Arts	2.5	Open to 9 th and 10 th grade academy students
Intermediate Art	5	Prerequisite B+ or greater in Intro to Art
AP Art and Design/Art Drawing Or AP Art History	5	Prerequisite: portfolio submission and department recommendation

In addition to the mandatory courses above students must complete 5 credits from the courses listed below:

Course	Credits	
Fashion Illustration	2.5	
Jewelry and Metal Working	2.5	
Sculpture and Ceramics 1	2.5	
Sculpture and Ceramics 2	2.5	
Stained Glass	2.5	
Painting *projected course	2.5	
Drawing *projected course	2.5	

Total Academy Credits =20

Biomedical and Engineering STEM Academy Course of Study

(Also Required: 2.5 credits Financial Literacy through an online or summer course for Biomedical)

Grade 9

English
Biology Honors
Geometry Honors or Algebra II Honors
World History CP/H

PE/Health
Visual/Performing Arts Elective(s)
World Language
Intro to Engineering (semester)

Grade 10

Biomedical

English
Alg II H or PreCalc H
US Hist I CP/H or APUSH I
PE/Health
Chemistry H
AP Biology
World Language

Engineering

English
Alg II H or PreCalc H
US Hist I CP/H or APUSH I
PE/Health
Chemistry H
World Language
Engineering, Drawing or Robotics
Visual/Performing Art

Grade 11

Biomedical

English
PreCalc H, Calc H, or AP Calc
US Hist II CP/H or APUSH II
PE/Health
Physics H
AP Chem
World Language

Engineering

English
PreCalc H, Calc H, or AP Calc
US Hist II CP/H or APUSH II
PE/Health
Physics H
World Language
Engineering Drawing & Architectural Design

Grade 12

Biomedical

English
AP Calc or AP Cal BC
PE/Health
AP Science or Math
Anatomy & Physiology H
Practical Art(s)
Science Leadership (1 credit)
Research in Science (2 credits)
Externship (2 days per week)

Engineering

English
AP Calc or AP Cal BC
PE/Health
AP Biology, Chemistry Physics or Env. Science
Adv. Arch. Design
Financial Lit/Performing Art
Science Leadership
Research in Science
Externship



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



SAYREVILLE WAR MEMORIAL HIGH SCHOOL FUTURE EDUCATORS **ACADEMY**

If you are thinking of a career in the education field this Academy is perfect for you!!

The Sayreville War Memorial High School Academy for future careers in education 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. It is a career driven academy for SWMHS students, starting with electives in grades nine and ten. As upperclassmen, the program will focus on how to design an instructional plan, choose teaching strategies, and measure whether learning has taken place through the Tomorrow's Teachers course where academy students gain field experience throughout the Sayreville School District and surrounding communities.

Students in the FEA program will be eligible to gain college credit through Rider University. 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.

Academy Endorsement Course Work:

Must Take one of the two courses below:

Children's Literature – 2.5 Credits or

Communicating in the 21st Century – 2.5 Practical Arts Credits or

Mandatory Courses:

Introduction to Tomorrow's Teachers – 2.5 Credits, Grade 11

FEA Tomorrow's Teachers Field Experience – 5 Credits, Grade 12