

**Sayreville War Memorial
High School
Course Description Book
2021 - 2022**



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

Mrs. Donna Sicola	Supervisor of Guidance		
Ms. Maria Vogiatzidakis Mrs. Dana Keck	Replacement Counselor Counselor	A-Car	Grades 9-12
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
Mrs. Antonietta Calcagno	Counselor	Sn-Z	Grades 9-12
Ms. Alexandra Catena, SAC	Counselor		
Ms. Angela Jones	Administrative Secretary		
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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	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 2021-2022 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
Engineering Drawing	Technology	Full Year
Fashion Illustration	Art	Semester (S2)
Financial Literacy in the 21st Century (Economics)	Social Studies	Semester
Game Design/App Development	Computer Sciences	Semester (S2)
Intro to Computer Science	Computer Sciences	Full Year
Introduction to Art	Art	Semester
Journalism	Language Arts	Semester
Microsoft Office Suite	Business	Full Year
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	
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

The New Jersey Department of Education is in the process of adopting new high school graduation testing requirements. At this time, they have proposed the update below. It is expected that the State Department of Education will be adopting new requirements over the next few months. Therefore, this is the latest information from the NJDOE:

Update Regarding High School Graduation Assessment Requirements

Class of 2022

The New Jersey Department of Education (NJDOE) received an amended Consent Order from the Appellate Division of the Superior Court of New Jersey memorializing an agreement between the NJDOE and the Education Law Center addressing the high school graduation assessment requirements for the Classes of 2020, 2021, and 2022. The path to graduation that was established for the Classes of 2019 and 2020 through the initial Consent Order dated February 15, 2019 has been extended to apply to the Classes of 2021 and 2022.

Classes of 2021 through 2022

The amended Consent Order establishes the following pathways for the Classes of 2020, 2021, and 2022 to meet the high school assessment graduation requirements in both English Language Arts/Literacy (ELA) and mathematics:

1. Demonstrate proficiency on NJSLA1 /PARCC2 ELA 10 and/or Algebra I; or
2. Demonstrate proficiency in ELA and/or mathematics by meeting the designated cut score on one of alternative assessments such as other high school-level NJSLA/PARCC assessments, the SAT, ACT, or ACCUPLACER as defined in the Graduation Assessment Requirements chart; or
3. Demonstrate proficiency in ELA and/or mathematics by submitting, through the district, a student portfolio appeal to the NJDOE.

The Class of 2023 and Beyond

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

IMPORTANT: Juniors (Class of 2022) that do not currently have a passing English and/or math test, may 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: Introduction to Art or department approval; Grades 10-12 Full Year

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 A.P. 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; Department/Supervisor Approval Full Year

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

The 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: Grades 11-12; 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 Art)

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)

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 preference One Semester

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 Working 1 One Semester

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

SCULPTURE AND CERAMICS 1 2.5 CREDITS

Prerequisite: Grades 11-12 given preference One Semester

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: B in Sculpture and Ceramics 1; Grades 11-12 given preference One Semester

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

STAINED GLASS 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

The 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

Prerequisite: Grades 10-12 One Semester
B in 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)

ESSENTIALS OF MARKETING 2

2.5 CREDITS

Prerequisite: Grades 10-12 One Semester
Must have taken Essentials of 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 Class-1. 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 well in groups and demonstrate good work habits to be successful in the course. (Practical Art)

ENTREPRENEURSHIP & SMALL BUSINESS MANAGEMENT

5 CREDITS
Full Year

Prerequisite: 2.5 credits in Business Courses

Students will gain an understanding of entrepreneurship and the role of small businesses. Students will create a small business while developing social and ethical responsibility. Students are expected to participate in DECA, the student organization. (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 County 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 2.5 CREDITS
B in Financial Accounting Honors One Semester

An introduction to the use of accounting information by managers. Topics include the use of accounting information for planning and control, performance evaluation, decision-making, and the statement of cash flows, along with financial statement analysis. (Practical Art)

COOPERATIVE WORK EXPERIENCE SEMINAR

Prerequisite: Grade 12. Prior to senior 10 CREDITS
year students must have Full Year
completed 95 credits; 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 business. 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)

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 and 2.5 2.5 CREDITS
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: Algebra 1; Grades 10-12 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)

FRONT END WEB DEVELOPEMENT

Prerequisite: Intro to Computer Science 2.5 CREDITS
Fall only One Semester

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)

ADVANCED CONCEPTS IN COMPUTER PROGRAMMING

Prerequisite: Intro to Computer Science 2.5 CREDITS
Spring only One Semester

Students will gain an understanding of advanced languages such as C++ and Java. Topics include algorithms, static and dynamic data structures, sequence, repetition and conditions. The course includes thorough coverage of the AP Computer Science syllabus, which aligns with the testing standards. (Practical Art)

ADVANCED PLACEMENT COMPUTER SCIENCE A

Prerequisite Algebra 1; Grades 11-12 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.

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)

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES 5 CREDITS

Prerequisites: 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 1 or minimum of an A in level 2 Social Studies in grade 8. Minimum of 90 or above on quarterly assessments Met/Exceeded expectations on February 2021 ELA benchmark Teacher recommendation Full Year

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

WORLD HISTORY

5 CREDITS

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

This course is a supportive instructional program designed for students with language arts deficiencies. A chronological view of world history from the Classical civilizations of Greece and Rome through the nationalistic revolutions of 1848. Emphasis will be placed upon the Medieval World, the Renaissance and the Reformation.

ADVANCED PLACEMENT AP U.S. HISTORY 1

5 CREDITS

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 Full Year

Current Level	Quarterly 1 Exams History and English	Quarterly 2 Exams History and English	Semester 1 Grades History and English	February 2021 English Benchmark Assessment and AP History Entrance Exam
Honors History =10 pts. Honors/ AP 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.

U.S. HISTORY 1 HONORS 5 CREDITS

Prerequisite: Minimum of a B+ in World History Honors or minimum of an A in CP Met/Exceeded expectations on February 2021 ELA benchmark Teacher recommendation Full Year

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

U.S. HISTORY 1 CP 5 CREDITS

Prerequisite: World History CP and teacher recommendation Full Year

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

U.S. HISTORY 1 5 CREDITS

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

This course is a supportive instructional program designed for students with language arts deficiencies. A chronological study of the history of the United States from pre-Columbian explorations through the beginning of the twentieth century.

ADVANCED PLACEMENT U.S. HISTORY 2 5 CREDITS

Prerequisite: AP US History 1, teacher recommendation Full Year

recommendation, and department approval

A continuation of AP US History 1. An in depth, chronological study of the history of the United States from the 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.

U.S. HISTORY 2 HONORS 5 CREDITS

Prerequisite: B +in US History 1 Honors or A in US History 1 CP Quarterly Assessments Met/Exceed expectations on last NJSLA-ELA and teacher recommendation Full Year

A continuation of U.S. 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.

U.S. HISTORY 2 CP 5 CREDITS

Prerequisite: US History 1 CP and teacher recommendation Full Year

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

U.S. HISTORY 2 5 CREDITS

Prerequisite: Minimum of a B+ in U.S. History 1 Honors or minimum of an A in CP Met/Exceeded expectations on February 2021 ELA benchmark Teacher recommendation Full Year

This course is a supportive instructional program designed for students with language arts deficiencies. A continuation of US History 1. A chronological study of the history of the United States from the twentieth century to the present.

AMERICAN GOVERNMENT/CIVICS 5 CREDITS

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

CURRENT HISTORY 2.5 CREDITS

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

FINANCIAL LITERACY IN THE 21st CENTURY (ECONOMICS) 2.5 CREDITS

Prerequisite: None One Semester
Students are given a basic understanding of personal finance along with the principles of credit, interest, debt, checking,

savings and taxes. Areas to be highlighted include the role of the government, money and banking and comparative economic systems.

THE GREAT METROPOLIS 2.5 CREDITS

Prerequisite: None One Semester

Students will be provided with the opportunity to examine the architecture, history, geography, culture and cuisine of the American Metropolis during the early twentieth century. Emphasis will be placed on the various immigrant groups that came to the United States and the contributions they have made.

HISTORY OF AMERICAN CULTURE 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

An examination of the popular culture of the twentieth and twenty first centuries in the United States. Students will analyze the evolution of music, art, film and entertainment from 1900 to the present, and how these helped shape major movements in American history.

MODERN GLOBAL CONFLICTS 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

Students will examine situations in today’s world that have caused strife among nations. Topics will include The New Europe, conflicts in the Middle East, struggles to keep world peace, human rights and facing the future.

PEER LEADERSHIP 5 CREDITS

Prerequisite: Grade 12, application, teacher recommendation, review 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

Prerequisite: Grades 11-12 2.5 CREDITS One Semester

Students are given a greater insight into current social problems. Students explore the role of the young adult in today’s society, campus unrest, crime and racial conflict. Students develop a willingness to actively participate in problems facing us today.

STREET LAW 1 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

Students will gain a fundamental knowledge of American law and our legal system. The curriculum is designed to provide students with an understanding of their legal rights and responsibilities.

STREET LAW 2 2.5 CREDITS

Prerequisite: Street Law 1 One Semester

A continuation of Street Law 1. Students will explore First Amendment Rights, particularly freedom of expression and religion. Liability and negligence also will be covered.

INTRODUCTION TO TOMORROW’S TEACHERS

Prerequisite: Grade 11 2.5 CREDITS One Semester

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.

TOMORROW’S TEACHERS 5 CREDITS

Prerequisite: Grade 12; must have a B in current English class; teacher approval Full Year

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 requiring additional support, a slower pace or remediation in meeting the expected standards as measured by class and state mandated tests may be placed in English 9,10,11 or 12 by the teacher.

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

GRADE 12 HONORS (College Level Course)

B or higher in Honors Level English OR A or higher in CP Level English prior year
Exceeded Expectations on NJSLA OR on the LinkIt Benchmark Form B from this year
A or better for Semester 1 in English this year
A- or better for Semester 1 Quarterly exams

This course is being offered in conjunction with Middlesex County 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.

GRADE 9-11 ENGLISH HONORS

B or higher in Honors Level English OR A or higher in CP Level English prior year
Exceeded Expectations on NJSLA OR on the LinkIt Benchmark Form B from this year
A or better for Semester 1 in English this year
A or better for Semester 1 Quarterly 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.

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

*Applications will be accepted in January. Students will be required to submit a writing sample. Decisions are final.

Additional Courses:

LAL SKILLS 10 & 11 2.5/5 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 single semester required remediation course as outlined by NJDOE policies.

LAL SKILLS 12 2.5/5 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 ASVAB, Accuplacer, PSAT, SAT, etc. Students will also complete necessary assessments for the NJDOE Portfolio process if necessary.

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 popular 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 in CATV 1 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 One Semester

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

COMMUNICATION ARTS THROUGH TELEVISION 4-IS
Prerequisite: CATV 3 and teacher approval 2.5/5CREDITS Full Year

A full-year course designed to empower students in developing and producing a television production by learning camera operation, 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 students who want to further explore their passion for writing. Skills in written expression and publishing will be explored using mentor texts from 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 researching as well as digital citizenship and public speaking. (Practical Arts)

JOURNALISM 2.5 CREDITS
Prerequisite: None One Semester

Students will explore the production and impact of newspapers, periodicals, magazine, etc. on our society as well as develop writing skills. Students will work on a school-based newspaper, EchoLites, as a 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 exercises 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 and 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 SCHEDULING. Students who want to double-up in math should see the supervisor for a

waiver (cannot double-up 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.

ADVANCED PLACEMENT CALCULUS AB

Prerequisite: Application, Point Scale based on Year-to-Date Grade, Previous Year Math Grade, Algebra 1 PARCC/NJSLA-M or Geometry PARCC/NJSLA-M 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

Prerequisite: Application, Point Scale based on Year-to-Date Grade, Previous Year Math Grade, Algebra 1 PARCC/NJSLA-M or Geometry PARCC/NJSLA-M 5 CREDITS Full Year

Advanced Placement Calculus BC is a course 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

Prerequisite: Application, Point Scale based on Year-to-Date Grade, Previous Year Math Grade, Algebra 1 PARCC/NJSLA-M or Geometry PARCC/NJSLA-M Full Year

Advanced Placement Statistics is 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 word problems is emphasized.

FUNDAMENTALS OF COLLEGE ALGEBRA

Prerequisite: Successful completion of Algebra 1 and Geometry: 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

5 CREDITS
Full 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 mathematic 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 County 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

Prerequisite: A- in Algebra 1
A – in Geometry OR B+ in Geometry Honors;
B or higher on Geometry Quarterly Assessments;
Met or Exceeded Expectations on Algebra 1
PARCC/NJSLA-M; teacher recommendation

5 CREDITS
Full Year

This Algebra II 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

Prerequisite: Completion of Algebra 2 Honors or C or better in Algebra 2

5 CREDITS
Full Year

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

Prerequisite: B in Pre-Calculus OR C+ in Pre-Calculus Honors AND teacher recommendation

5 CREDITS
Full Year

This course includes a non-sophisticated treatment of limits and continuity of functions. The definition of a 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 County**

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

Prerequisite: Standardized Test Scores
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.

2.5 CREDITS
One Semester

MATH 204: GEOMETRY LAB

Prerequisite: Current enrollment in Plane Geometry AND C- or lower in Algebra 1 AND / OR Not meeting expectations on PARCC/NJSLA-M

2.5 CREDITS
One Semester

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

This course is designed for those students who have not attained a graduation test requirement. These courses will emphasize and reinforce the New Jersey Student Learning Standards. Students will explore their problem-solving strategies, and they must be able to communicate their solutions in written form.

PLANE GEOMETRY

Prerequisite: Algebra 1

5 CREDITS
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

Prerequisite: B+ in Algebra 1 Honors OR A in Algebra 1-9 CP; A- or higher on Quarterly Assessments; Met or Exceeded Expectations on Algebra 1
PARCC/NJSLA-M; teacher recommendation

5 CREDITS
Full Year

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

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

5 CREDITS
Full Year

In this course, students will gain an understanding of the properties of the trigonometric functions and their applications. In addition, students will gain an understanding of Algebra in the solution and classification of the concepts of functions and the conic sections. There will be a review of the fundamentals of Algebra and Geometry that are necessary for understanding the concepts of Trigonometry and Pre-Calculus. **This course is being offered in conjunction with Middlesex County 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

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

5 CREDITS
Full Year

This course provides an in-depth analysis of functions and their graphs both algebraically and graphically. The emphasis of the course is upon topics, such as trigonometric and logarithmic functions. The properties of arithmetic and geometric sequences will be explored. An introduction to Calculus topics such as limits, continuity, and the derivative of polynomial functions is also included.

This course is being offered in conjunction with Middlesex County 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

Prerequisite: Grades 10-12

Please see PREPARING FOR THE SAT in the Language Arts Department section.

2.5 CREDITS
One Semester

STATISTICS

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

5 CREDITS
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 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.

MUSIC DEPARTMENT

ADVANCED JAZZ STUDIES

Prerequisite: Audition/Interview
Teacher recommendation

5 CREDITS
5 Full Year

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

BAND

2.5 CREDITS/One Semester
5 CREDITS/Full Year

Prerequisite: Instrumental Proficiency

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

CHOIR 101

Prerequisite: None

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)

2.5 CREDITS/One Semester
5 CREDITS/Full Year

CHOIR 201

Prerequisite: Mixed Choir 101 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)

2.5 CREDITS/One Semester
5 CREDITS/Full Year

CHOIR 301

Prerequisite: Mixed Choir 201 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)

2.5 CREDITS/One Semester
5 CREDITS/Full Year

CHOIR 401

Prerequisite: Audition

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

2.5 CREDITS/One Semester
5 CREDITS/Full Year

technology to analyze, record and create. Each student must participate in all after school choral events. (Performing Art)

MUSIC TECHNOLOGY 1 2.5 CREDITS
Prerequisite: Interview with instructor; One Semester
Basic Music Theory Exam

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 students 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 Full Year
current SCIENCE AND LAL
courses; A- in Biology Honors
OR A in Biology CP (6);
completed AP Science
application

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

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

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

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

5 CREDITS
Full Year

Prerequisite: Semester 1 average of A- in current SCIENCE AND LAL courses; B+ in Biology Honors OR A in Biology CP (6); B in Chemistry Honors OR A in Chemistry CP(6); B+ in Algebra 2 CP or higher; teacher recommendation; completed AP Science application

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

ADVANCED PLACEMENT PHYSICS 6 CREDITS

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

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

ASTRONOMY 2.5 CREDITS

Prerequisite: C in Biology or Environmental Science; Grades 11-12

Astronomy is a course designed to give students an awareness of one's efforts to understand the universe. Students will learn how one's understanding of the heavens has changed with the advance of space technology. Hands-on activities will be an integral part of 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 courses AND Algebra 1; Algebra 1 NJSLA score meets or exceeds expectations (10th grade and higher); 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 problem solving through experimentation and student-centered, hands-on activities.

BIOLOGY CP 6 CREDITS

Prerequisite: B- in Physics 9 or Environmental 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 appropriately less rigor in terms of detail and amount of additional topics covered.

CHEMISTRY HONORS 6 CREDITS

Prerequisite: A- or higher 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; Algebra 1 NJSLA scores meets or exceeds expectations; teacher recommendation; concurrent enrollment or completion of Algebra 2 CP or higher

Chemistry Honors is designed for students 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- in Algebra 1; teacher recommendation; concurrent enrollment in Algebra 2** Full Year

College Preparatory Chemistry provides students 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** Full Year

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: **For Grades 11-12 students, successful completion of Biology** Full Year

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

The unit on weather includes meteorology and climatology.

FOOD SCIENCE 2.5 CREDITS
Prerequisite: **For Grades 11-12; Successful completion of Chemistry CP or higher** One Semester

Semester lab elective that incorporates nutrition, food processing techniques and procedures. Includes the applications 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 or higher** One Semester

Forensic Science is a lab science elective in which students' study and use scientific concepts and technologies related to the investigation of a crime. In this course, students will apply the techniques that professionals use to identify and collect evidence, analyze and compare it, and use the results to locate criminal perpetrators. The course will take you from the crime scene to the laboratory to the courtroom. It should be noted that many criminal acts are, by their very nature, violent. This course is not designed to specifically focus on crimes of a graphic or sexual nature; however, in an effort to provide an accurate and realistic perspective, certain aspects of such behaviors may be unavoidable. In this course you will learn the step-by-step procedures for analyzing hair, fiber, fingerprints, 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: **B- in Biology CP (6) OR A- in Biology CP (5); Grades 11-12** One Semester

Human Anatomy, Physiology and Disease is a lab course in Human Biology designed to give students an awareness of the interrelationships between the human body and its physical and social environments. In addition to the traditional anatomy and physiology covered to provide background, this rigorous course includes the impact on the human body of diseases and disorders. How all of the above can impact on the next generation is examined. This course provides the opportunity to learn about diagnostic tests, ("blood work" to CAT scans and ultrasound scans), and treatments (by-pass heart surgery to radiation). This course contains some dissections. *

INTEGRATED SCIENCE 5 CREDITS
Prerequisite **For Grade 9, completion of 8th grade science; for Grades 11-12, completion of Environmental Science AND Biology** Full Year

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

MARINE BIOLOGY 2.5 CREDITS
Prerequisite: B- in Biology CP (6) One Semester
OR A- in Biology CP
(5)

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

PHYSICS HONORS 6 CREDITS
Prerequisite: Semester 1 average of A- in current science course; Full Year
Quarterly Assessment grades of A- or higher in current science course; B+ in Algebra 2 Honors OR A in Algebra 2 CP; Algebra 1 NJSLA score meets or exceeds expectations; 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 11- Full Year
12; quarter 1 average of B or higher in Chemistry CP6 or Chemistry Honors; Average of B or 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; Full Year
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; Algebra 1 NJSLA score meets or exceeds expectations; teacher recommendation

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, 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 component 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, teachers will provide alternatives to actual dissections. These 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 AND 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 AND NUTRITION 2 2.5 CREDITS
Prerequisite: Foods & Nutrition 1 One Semester
An advanced continuation of Foods and Nutrition 1. (Practical Art)

PARENTING AND CHILD DEVELOPMENT
Prerequisite: Grades 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)

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 action and/or removal from the activity with a loss of credit. Costs attributed to materials used and/or lost/broken tools must be paid prior to the last examination. (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 Full Year

teacher recommendation

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 Full Year
teacher approval

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

INTRODUCTION TO ENGINEERING 2.5 CREDITS
Prerequisite: Completion of Biology: One Semester
A- in Algebra 1

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

ENGINEERING DRAWING 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)

ELEMENTS OF DESIGN 5 CREDITS
Prerequisite: B in Engineering Drawing Full Year
A review of drafting skills and geometric construction. Self-expression is provided through the design of a student-oriented project. Activities will be centered on computer generated drawings. (Practical Art)

ARCHITECTURAL DESIGN 5 CREDITS
Prerequisite: B in Engineering Drawing Full Year
House construction components are studied in this course. Footings, foundations, 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.
This course is being offered in conjunction with Middlesex County 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. Conversation and an appreciation of

literature in the target language are emphasized.
This course is being offered in conjunction with Middlesex County 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 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.

ADDITIONAL OFFERINGS

AIR FORCE JUNIOR ROTC 5 CREDITS
Prerequisite: None Full Year
This course will apply principles of science learned in other courses 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)

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 of 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	German
AP Macroeconomics*	Latin
AP Microeconomics*	Mandarin Chinese
AP Psychology**	
College and Career Prep	
Media Literacy	
Multicultural Studies	
Skills for Health	
Sociology	

*Successful completion of Economics is the prerequisite for AP Macroeconomics and AP Microeconomics.

** Successful completion of Psychology is the prerequisite for AP Psychology.

STRUCTURED LEARNING EXPERIENCE

2.5 credits One Semester

Prerequisite: Must be recommended by Child Study Team

The Structured Learning Experience (SLE) 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 Community Based Instruction course and/or the workplace by exposing them to the skills necessary to become a worker in the dynamic global society.

NJDOE SEAL OF BILITERACY

The SWMHS proudly offers all juniors and seniors the opportunity to earn the NJDOE Seal of Biliteracy on their diploma by demonstrating literacy proficiency in English as well as one of the over a dozen other languages. The assessment is offered for a nominal fee annually each January. Currently we are working with Avant Assessment in administering the STAMP4S examination. Interested students can contact Kimberly.Grossman@Sayrevillek12.net

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 and/or 10

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

Grade 11

Parenting and Child Development	2.5 Credits 1 Semester
Introduction to Tomorrow's Teachers	2.5 Credits 1 Semester

Grade 12

FEA- Tomorrow's Teachers	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 TEACHERS 5 CREDITS

Prerequisite: Grade 12 Full Year
B+ or above in Intro to Tomorrow's Teachers and department approval

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 Pre-K to grade 6 classrooms for the opportunity to observe the 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 students majoring in Accounting will take the following courses.

- Business Organization and Management
- Financial Literacy in the 21st century
- Financial Accounting Honors
- Managerial Accounting
- 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 County College where students earn college credits in Financial Accounting Honors.

Students 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 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)

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)

This course is being offered in conjunction to Middlesex County 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.

MANAGERIAL ACCOUNTING HONORS

Prerequisite: B in Financial Accounting Honors
Grades 11-12 2.5 Credits

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

CAPSTONE

Prerequisite: None Grades 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, 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– 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.

MARKETING STRAND

SWMHS students majoring in Accounting will take the following courses.

- Business Organization and Management
- Financial Literacy in the 21st century
- Essentials of Marketing 1
- Essentials of Marketing 2
- Sports and Entertainment Marketing
- 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)

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)

expected to participate in DECA, the student organization. (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.

CAPSTONE

Prerequisite: None

Grades 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, 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

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

Grade 9

English	PE/Health
Biology Honors	Visual/Performing Arts Elective(s)
Geometry Honors or Algebra II Honors	World Language
World History CP/H	Engineering Drawing or Robotics (Engineering Strand)

Grade 10

<u>Biomedical</u>	<u>Engineering</u>	<u>Computer Science</u>
English	English	English
Alg II H or PreCalc H	Alg II H or PreCalc H	Alg II H or PreCalc H
US Hist I CP/H or APUSH I	US Hist I CP/H or APUSH I	US Hist I CP/H or APUSH I
PE/Health	PE/Health	PE/Health
Chemistry H	Chemistry H	Chemistry H
AP Biology	World Language	World Language
World Language	Intro to Engineering (semester)	Intro to Comp Sci/Adv Concepts
	Visual/Performing Art	

Grade 11

<u>Biomedical</u>	<u>Engineering</u>	<u>Computer Science</u>
English	English	English
PreCalc H, Calc H, or AP Calc	PreCalc H, Calc H, or AP Calc	PreCalc H, Calc H, or AP Calc
US Hist II CP/H or APUSH II	US Hist II CP/H or APUSH II	US Hist II CP/H or APUSH II
PE/Health	PE/Health	PE/Health
Physics H	Physics H	Physics H
AP Chem	World Language	World Language
World Language	AP Chem or AP Enviro Sci	AP Computer Principles

Grade 12

<u>Biomedical</u>	<u>Engineering</u>	<u>Computer Science</u>
English	English	English
AP Calc or AP Cal BC	AP Calc or AP Cal BC	AP Calc or AP Cal BC
PE/Health	PE/Health	PE/Health
AP Science or Math	AP Science	AP Science
Anatomy & Physiology H	Adv. Arch. Design	AP Computer Science
Practical Art(s)	Financial Lit/Elective	Financial Lit/Elective
Science Leadership (1 credit)	Science Leadership (1 credit)	Science Leadership (1 credit)
Research in Science (2 credits)	Research in Science (2 credits)	Research in Science (2 credits)
Externship (2 days per week)	Externship (2 days per week)	Externship (2 days per week)



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 Fairleigh Dickinson University, Kean University, Rider University, and Stockton University.

Academy Endorsement Required Course Work:

Children's Literature - open to incoming 9th grade students 2.5 Credits

Communicating in the 21st Century- open to 9th grade students. 2.5 Practical Arts Credits

Parent and Child Development- 2.5 Credits

Introduction to Tomorrow's Teachers 2.5 Credits

FEA Tomorrow's Teachers Field Experience 5 Credits

Total Academy Credits- 15

Students may apply for admission to the Academy the spring of 9th grade. If you are interested in being part of this amazing Academy experience – get a head start and request Children's Literature or Communicating in the 21st Century as your elective choice for next year!