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**Sayreville War Memorial  
High School  
Course Description Book  
2025 - 2026**

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**Sayreville War Memorial High School  
820 Washington Road  
Parlin, New Jersey 08859  
732-525-5280  
School Code #311355**



***Sayreville War Memorial High School  
Counseling Staff***

Mrs. Donna Sicola	Director, Counseling Services		
Ms. Carly Chupka	Counselor	A - Bre	Grades 9 - 12
Ms. Paula Schnorbus	Counselor	Bri - Dub	Grades 9 - 12
Mr. Joseph Schlaline	Counselor	Duc - Hr	Grades 9 - 12
Mr. Osaze Morris	Counselor	Hu - Loo	Grades 9 - 12
Mrs. Kimberly Gibson	Counselor	Lop - Naq	Grades 9 - 12
Mr. Michael Velardi	Counselor	Nar - Qu	Grades 9 - 12
Mrs. Antonietta Calcagno	Counselor	R - Sim	Grades 9 - 12
Mr. Hareesh Kapadia	Counselor	Sing - Z	Grades 9 - 12
Ms. Lauren Sacs	SAC Counselor		
Ms. Angela Jones	Administrative Secretary		
Mrs. Sharon Thasites	Administrative Secretary		

***District  
Supervisors & Directors***

Mrs. Donna Sicola	Director, Counseling Services and Testing
Ms. Jennifer Badami	Health and Physical Education, Director of Athletics
Dr. Cynthia DeFina	Secondary Special Education
Ms.Carolynn O'Connor	Science, Practical/Industrial Arts, JROTC
Dr. Mala Maharana	Mathematics, Business, Computer Science
Ms. Suzanne Capraro	English Language Arts, World Languages, ESL
Mr. Christopher Howard	Social Studies, Visual and Performing Arts

***Sayreville War Memorial High School  
Administration and Staff***

Mr. Richard Gluchowski	Principal
Mrs. Jacquelyn Carey	Vice Principal
Mr. Anthony Martucci	Vice Principal
Mr. Michael Salum	Vice Principal
Mrs. Katelyn Zurawski	Vice Principal
Ms. Terri Gelpke	Administrative Secretary
Ms. Allison Laffey	Administrative Secretary
Ms. Deborah Metz	Administrative Secretary

# ***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 meeting 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 run during the 2025-2026 school year will depend upon requests for the course as well as budget constraints. As a result, please be aware that not all courses may be offered next year.

## Grade 9 Electives

Course	Department	Type
Air Force JROTC		Full Year
Auto Technology 1	Technology	Semester
Band	Music	Semester
Career Development	Business	Semester
Children's Literature	Language Arts	Semester
Choir 101	Music	Semester
Computer Science Principles	Computer Science	Semester
Creative Writing	Language Arts	Semester
Financial Literacy in the 21st Century (Economics) *	Social Studies	Semester
Freshman Foundations: Success at SWMHS and Beyond!**	Social Studies	Semester
Introduction to 3D Art and Design	Art	Semester
Introduction to Art	Art	Semester
Introduction to Business	Business	Semester
Introduction to Digital Art	Art	Semester
Introduction to Video Production	Language Arts	Semester
Journalism	Language Arts	Semester
Microsoft Office Suite	Business	Semester
Monsters in Literature	Language Arts	Semester
Mythology	Language Arts	Semester
Public Speaking and Effective Modern Communication	Language Arts	Semester
Theater 1	Performing Arts	Semester
Wood 1	Technology	Semester
World Geography and Global	Social Studies	Semester

\* Graduate requirement

\*\*Mandatory for all 9<sup>th</sup> Grade students

# 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 selected 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 **120 credits** for graduation.

Content Area	Minimum Credits	Additional Information
<b>LANGUAGE ARTS LITERACY</b>	20	Must be aligned with New Jersey Student Learning Standards.
<b>MATHEMATICS</b>	15	Must include <b>Algebra 1</b> and <b>Geometry</b> 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 <sup>st</sup> century careers. Must also be aligned with New Jersey Student Learning Standards.
<b>SCIENCE</b>	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.
<b>SOCIAL STUDIES</b>	15	Must include five credits in world history and ten credits in United States History.
<b>HEALTH, SAFETY, AND PHYSICAL EDUCATION</b>	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.  <b><i>Sayreville has a local requirement of 5 credits of Health/PE per year.</i></b>
<b>WORLD LANGUAGES</b>	5	While the NJDOE only requires 5 credits, many colleges expect 10 or even 15 credits.
<b>FINANCIAL LITERACY/ECONOMICS</b>	2.5	
<b>VISUAL AND PERFORMING ARTS</b>	5	See Course Description Book for list of approved courses.
<b>21<sup>ST</sup> CENTURY LIFE AND CAREERS OR CAREER TECHNICAL EDUCATION (PRACTICAL ART)</b>	5	See Course Description Book for list of approved courses.
<b>ELECTIVES</b>	27.5	

# *High School Graduation Assessment Requirements*

## First Pathway

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

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

ELA	Mathematics
New Jersey Graduation Proficiency Assessment ELA $\geq$ 725 (Graduation Ready)	New Jersey Graduation Proficiency Assessment Mathematics $\geq$ 725 (Graduation Ready)

## Second Pathway

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

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

### Second Pathway—Menu of Substitute Competency Tests

**Note:** Cut Scores Approved by the New Jersey State Board of Education on May 3, 2023

ELA	Mathematics
One of the following: <ul style="list-style-type: none"> <li>ACT Reading <math>\geq</math> 17</li> <li>Accuplacer WritePlacer <math>\geq</math> 5</li> <li>Accuplacer WritePlacer English Second Language <math>\geq</math> 4</li> <li>PSAT10 Evidence Based Reading and Writing (EBRW) <math>\geq</math> 420</li> <li>PSAT10 Reading <math>\geq</math> 21</li> <li>PSAT/NMSQT EBRW <math>\geq</math> 420</li> <li>PSAT/NMSQT Reading <math>\geq</math> 21</li> <li>SAT EBRW <math>\geq</math> 450</li> <li>SAT Reading <math>\geq</math> 23</li> </ul>	One of the following: <ul style="list-style-type: none"> <li>ACT Math <math>\geq</math> 17</li> <li>Accuplacer Elementary Algebra <math>\geq</math> 49</li> <li>Accuplacer Next-Generation QAS <math>\geq</math> 250</li> <li>PSAT10 Math Section or PSAT/NMSQT Math Section <math>\geq</math> 420</li> <li>PSAT10 Math or PSAT/NMSQT Math <math>\geq</math> 21</li> <li>SAT Math Section <math>\geq</math> 440</li> <li>SAT Math Test <math>\geq</math> 22</li> </ul>

## Third Pathway

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

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

### Third Pathway—Portfolio Appeals

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

### **IMPORTANT:**

**Juniors (Class of 2026) that do not currently have a passing English and/or Math test, will be placed in LAL Skills 12 and/or Math 404 in place of one or two electives.**

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

# ***ARTS DEPARTMENT***

## **Level 1 Courses**

### **INTRODUCTION TO ART**

2.5 CREDITS

**Prerequisite: None**

One Semester

This course provides a broad overview of various artistic disciplines, including drawing, painting, sculpture, and mixed media. Students will learn about fundamental concepts, art history, and different techniques including watercolor, tempera, sketching, pen and ink and printing while engaging in hands-on projects. The course encourages creativity and self-expression, allowing students to explore their interests and develop a foundational understanding of the visual arts. (Performing Art)

### **INTRODUCTION TO 3D ART AND DESIGN**

2.5 CREDITS

**Prerequisite: None**

One Semester

This course is designed to introduce students to the art forms, principles, and techniques of 3D art and design. Students will focus on traditional methods and work with techniques and materials to understand spatial relationships, forms, and shapes using multiple mediums. Through practical projects and coursework, students will develop skills in sculpting, molding, and constructing physical objects to create three-dimensional artworks. (Performing Art)

### **INTRODUCTION TO DIGITAL ARTS**

2.5 CREDITS

**Prerequisite: None**

One Semester

This course serves as an entry point into the world of digital arts, focusing on Adobe Photoshop and Illustrator as primary tools. Students will explore the creative potential of digital mediums, learning fundamental concepts and techniques to create visually engaging artworks. Through hands-on projects and coursework, students will develop proficiency in manipulating images, creating illustrations, and understanding the broader applications of digital art in various fields. (Performing/Practical Arts)

## **Level 2 Courses**

### **CERAMICS I**

2.5 CREDITS

**Prerequisite: Grades 10-12;**

One Semester

**Minimum of B in any Introduction Arts courses preferred**

**Priority given to Art Academy students - Grade 10**

This introductory course explores the fundamentals of ceramic arts, including hand-building techniques, glazing, and firing processes. Students will learn to create functional and artistic pieces while developing their creativity and technical skills. Emphasis is placed on experimentation and personal expression, culminating in a portfolio of original work. (Performing Art)

### **DIGITAL ARTS II**

2.5 CREDITS

**Prerequisite: Grades 10-12;**

One Semester

**Minimum of B in Digital Arts/Introduction to Digital Arts preferred**

**Priority given to Art Academy students - Grade 10**

This technology-based course covers the essentials of graphic design, focusing on typography, color theory, and layout, while providing hands-on experience with industry-standard software. Students will work on projects like logos, posters, and digital art, building a diverse portfolio and gaining skills for potential careers in graphic design, advertising, and digital media. (Performing/Practical Arts)

### **DRAWING**

2.5 CREDITS

**Prerequisite: Grades 10-12;**

One Semester

**Minimum of B in any Introduction Arts courses preferred;**

**Priority given to Art Academy students - Grade 10**

This course introduces students to the fundamental techniques of drawing, focusing on lines, form, value, and perspective. Through a variety of exercises and projects, students will explore different media such as pencil, charcoal, and ink, developing their observational skills and personal style. Emphasis is placed on creative expression and building a strong foundation in drawing fundamentals. (Performing Art)



**FASHION ILLUSTRATION**

2.5 CREDITS

**Prerequisite: Grades 10-12;**

One Semester

**Minimum of B in Introduction to Art preferred;****Priority given to Art Academy students - Grade 10**

This course focuses on the art of fashion illustration, where students will learn to convey garment design and fashion concepts through drawing. Students will explore techniques for rendering fabric, textures, and proportions, as well as developing their unique artistic voice. Projects will include creating a portfolio of fashion illustrations and exploring the history and trends in fashion design. (Performing Art)

**PAINTING**

2.5 CREDITS

**Prerequisite: Grades 10-12;**

One Semester

**Minimum of B in Introduction to Art preferred;****Priority given to Art Academy students - Grade 10**

This course explores the techniques and principles of painting using various media, including watercolor, acrylic, and oil paints. Students will learn about color theory, composition, and brushwork, while creating both representational and abstract works. This course is designed to enable students to experience a wide range of approaches to media, skills and techniques. This course will challenge students' creative potential as well as provide a basic foundation in painting. Through the use of this aesthetic exploration of a variety of styles of painting, students will develop a personal style and approach. (Performing Art)

**Level 3 Courses****CERAMICS II**

2.5 CREDITS

**Prerequisite: Grades 10-12 given preference;**

One Semester

**Minimum of B in Ceramics I preferred;****Priority given to Art Academy students – Grade 10**

Building on the skills acquired in Ceramics I, this course offers advanced techniques and concepts in ceramic arts. Students will explore more complex forms, wheel throwing, glazes, and firing methods, as well as design and functionality in their work. The course encourages independent projects, allowing students to refine their artistic voice and engage in deeper explorations of ceramics as a medium. (Performing Art)

**STAINED GLASS**

2.5 CREDITS

**Prerequisite: Grades 11-12 given preference;**

One Semester

**Minimum of B in Introduction to 3D Arts and Design preferred;****Priority given to Art Academy Students – Grade 10**

This course introduces students to the art of stained-glass creation, covering techniques such as glass cutting, copper foil, and leaded glass methods. Students will learn about color theory, design principles, and the history of stained-glass art. Projects will focus on creating functional and decorative pieces, allowing students to express their creativity through this unique medium. This course will cover the two major styles of stained-glass construction, i.e., Tiffany style and lead cane construction. Techniques include cutting, copper foil wrapping and soldering. (Performing Art)

**STUDIO ART**

2.5/5 CREDITS

**Prerequisite: Grades 11-12;**

One Semester/Full Year

**B or above in Level 2 Arts courses preferred;****Priority given to Art Academy Students – Grade 11;****Departmental Approval**

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

Level 4 Courses

**ADVANCED PLACEMENT ART HISTORY**

5 CREDITS  
Full Year

**Prerequisite: Grades 11-12;  
See Below Rubric;  
Department Approval**

<b>Current Course Level</b>	<b>Quarterly 1 Exams History/English</b>	<b>Quarterly 2 Exams History/English</b>	<b>Semester 1 Grades History/English</b>	<b>January 2025 ELA Benchmark Assessment</b>
Honors History/English = 10 pts. each	A range = 5 points each	A range = 5 points each	A range = 10 points each	Exceed Expectations = 10 points
CP History/English = 5 pts. each	B = 3 points	B = 3 points	B = 5 points each	Met Expectations = 5 points
	B = 1 point	B = 1 point	B = 2 points each	

This Advanced Placement level course provides a comprehensive overview of the history of art from prehistoric times to the present. Students will explore a wide range of artworks, artists, and cultural movements, examining the context, techniques, and themes that shape artistic expression across diverse cultures. Through critical analysis and discussions, students will develop their visual literacy, understanding the significance of art in society. The course prepares students for the AP exam, emphasizing writing skills, art historical methodologies, and the connections between art and the broader historical narrative. (Performing Art)

**ART WORKSHOP: A CAPSTONE COURSE**

2.5/5 CREDITS  
One Semester/Full Year

**Prerequisite: Grades 12**  
**Minimum of B and completion of Level 1 and 2 Arts courses;**  
**Minimum of B and completion of Studio Art;**  
**Priority given to Art Academy students;**  
**Departmental Approval**

This course is required for any students enrolled in the Fine Arts Academy in order to complete the program. Students not in the Academy, but who still meet the pre-requisites are also encouraged to this course. For Academy students, this course marks the apex of the Arts Academy, empowering students to craft a comprehensive artistic portfolio. For all eligible students, this course is designed to provide students with the opportunity to synthesize and expand upon their artistic skills, techniques, and knowledge developed throughout their previous art courses. This culminating course emphasizes the completion and refinement of a comprehensive portfolio while encouraging students to explore advanced techniques, experiment with diverse mediums, and cultivate a personal artistic voice. (Performing/Practical Art)

# ***BUSINESS DEPARTMENT***

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

## **INTRODUCTION TO BUSINESS**

2.5 CREDITS

**Prerequisite: None**

One Semester

Students will learn principles of business organization. Areas include economic decisions and activities, social responsibilities of business, entrepreneurship, and small business. (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 I**

2.5 CREDITS

**Prerequisite: Grades 10-11;**

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)

## **ESSENTIAL OF MARKETING II**

2.5 CREDITS

**Prerequisite: Grades 10-11;**

One Semester

**B in Essentials of Marketing I**

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 I class. This hands-on, project-based learning class focuses on current topics in business and marketing using real world examples. Students will need to follow oral and written directions, work will in groups and demonstrate good work habits to be successful in the course. (Practical Art)

## **INTRODUCTION TO ACCOUNTING**

5 CREDITS

**Prerequisite: Grades 10-12**

Full Year

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

## **FINANCIAL ACCOUNTING HONORS**

5 CREDITS

**Prerequisite: Grades 10-12**

Full Year

**B in Algebra II**

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

## **MANAGERIAL ACCOUNTING HONORS**

2.5 CREDITS

**Prerequisite: Grades 11-12;**

One Semester

**B in Financial Accounting Honors**

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

**COOPERATIVE WORK EXPERIENCE SEMINAR**

10 CREDITS

**Prerequisite: Grade 12;**

Full Year

**Prior to senior year, students must have completed 95 credits;****Must have passed all sections of Standardized Testing requirements;****Students will apply to the Co-op Coordinator for approval**

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

**MICROSOFT OFFICE SUITE**

2.5 CREDITS

**Prerequisite: None**

One Semester

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

**SPORTS AND ENTERTAINMENT MARKETING**

2.5 CREDITS

**Prerequisite: Grades 11-12;**

One Semester

**Must have 2.5 credits in Business courses**

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

**BUSINESS CAPSTONE**

2.5 CREDITS

**Prerequisite: Grade 12**

One Semester

**Must be a Business Academy Student**

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

# COMPUTER SCIENCES

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

## **COMPUTER NETWORKING AND DESIGN**

5 CREDITS

**Prerequisite: Grades 10-12;**

Full Year

**Algebra I**

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

## **COMPUTER SCIENCE PRINCIPLES**

2.5 CREDITS

**Prerequisite: Grades 9, 10, 11, 12**

One Semester

**Algebra I**

Students will be introduced to the concepts essential to all programming languages. By moving through the program development cycle of analysis, design, coding, testing, debugging and documenting, students will learn the skills necessary to enroll in advanced computer science courses. (Practical Art)

## **FRONT END WEB DESIGN**

2.5 CREDITS

**Prerequisite: Grades 10, 11, 12**

One Semester

**Computer Science Principles; Fall only**

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

## **PYTHON PROGRAMMING**

2.5 CREDITS

**Prerequisite: Grades 10, 11, 12;**

One Semester

**Computer Science Principles; Spring only**

Students will gain an understanding of advanced languages such as Python. Topics include algorithms, static and dynamic data structures, sequence, repetition and conditions. mic data structures, sequence, repetition and conditions. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits- pending approval** (Practical Art)

## **ADVANCED PLACEMENT COMPUTER SCIENCE A**

5 CREDITS

**Prerequisite: Grades 11-12;**

Full Year

**Algebra II;**

**AP Computer Science Principles**

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

## **ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES**

5 CREDITS

**Prerequisite: Grades 10-12;**

Full Year

**Algebra I**

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 covers many of the foundation ideas of computing, so all students understand how these concepts are transforming the world we live in. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.** (Practical Art)

## **GAME DESIGN AND APP DEVELOPMENT**

2.5 CREDITS

**Prerequisite: Computer Science Principles**

One Semester

Students will be introduced to the basic elements of game design and app development. The importance of storytelling and planning will be discussed. Teamwork will be utilized as students move through program development. (Practical Art)

# ***FAMILY AND CONSUMER SCIENCES DEPARTMENT***

## **FOODS & NUTRITION I**

2.5 CREDITS

**Prerequisite: Grade 12**

One Semester

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

## **FOODS & NUTRITION II**

2.5 CREDITS

**Prerequisite: Foods & Nutrition I**

One Semester

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

## **PARENTING & CHILD DEVELOPMENT**

2.5 CREDITS

**Prerequisite: Grades 11-12**

One Semester

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

# LANGUAGE ARTS DEPARTMENT

## English 9-12 Placement Criteria

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

### **CORE LEVEL ENGLISH COURSES:**

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

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

B or higher in Honors Level English <b>OR</b> A or higher in CP Level English <b>prior year</b>
Exceeded Expectations on at least one NJSLA LinkIt Benchmark in ELA <b>during semester 1 of current year</b>
B or higher in Honors Level English <b>OR</b> A or higher in CP Level English in <b>Semester 1 of current year</b> (avg. of MP1 and 2)
A or higher for Semester 1 CP Quarterly exams <b>OR</b> B or higher on Honors Quarterly exams (avg. of Q1 and Q2 exams)

**English 12 Honors is offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

**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.** Students wishing to take an AP course must complete an AP course application and may be asked to submit a writing sample.

Current Level	Quarterly 1 & 2 Exam Average	Semester 1 Grade	NJSLA OR LinkIt Benchmark Form B Feb 2025
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	Below Met=0

### ***Additional Courses:***

#### **LAL SKILLS 9, 10 & 11**

2.5 CREDITS

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

#### **LAL SKILLS 12**

2.5 CREDITS

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

#### **ESL BEGINNER, INTERMEDIATE & ADVANCED**

5 CREDITS

**Prerequisite: Qualifying score on ACCESS or screening assessment;  
Teacher approval**

Students that are identified as multilingual learners according to the standards and procedure established by the NJ Department of Education are eligible for English as a Second Language courses. Students will develop skills in the areas of reading, writing, listening, and speaking in English in an interactive and supportive environment. Students remain eligible for ESL services until they achieve a passing score on the annual WIDA ACCESS exam.

#### **ESL NEWCOMER**

2.5 CREDITS

**Prerequisite: Teacher approval**

Beginner ESL students that are new to the USA and have not previously attended a US school may be placed in the Newcomer course in addition to ESL Beginner, based on teacher evaluation. This course is designed to provide additional foundational support in reading, writing, listening, and speaking in English as well as assist with acclimation to the school community

#### **INTRODUCTION TO TOMORROW'S TEACHERS**

2.5 CREDITS

**Prerequisite: Grade 11**

One Semester

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

## **TOMORROW'S TEACHERS HONORS**

5 CREDITS

**Prerequisite: Grade 12;**

Full Year

**B in Introduction to Tomorrow's Teachers;  
Teacher approval**

An Honors course that studies the history, development, organization and practice of preschool, elementary and secondary education. Students will learn about the realities of public education and alternatives to public education. The course includes practical teaching experiences three days a week. **This course is being offered in conjunction with Rider University. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

## ***LANGUAGE ARTS ELECTIVES***

### **CHILDREN'S LITERATURE**

2.5 CREDITS

**Prerequisite: None**

One Semester

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

### **INTRODUCTION TO VIDEO PRODUCTION (formerly Communication Arts Through Television 1)**

2.5 CREDITS

**Prerequisite: None**

One Semester

This course is designed to teach students the different aspects of video production: camera technique, lighting, editing, writing, and planning. Students will learn how to use professional equipment including cameras, tripods, lighting, and editing software to create video content. (Performing/Practical Art)

### **BROADCAST MEDIA**

5 CREDITS

**Prerequisite: Grades 10, 11, 12**

Full Year

**INTRODUCTION TO VIDEO PRODUCTION (formerly Communication Arts Through Television 1);  
Teacher Approval**

This course builds on the skills learned in Intro to Video Production, focusing on broadcast journalism. Students will learn the origins of broadcast media and how it evolved with recent technology. They will obtain practical experience in telling stories through video and the production of newscasts, game shows, talk shows, and other live video content. (Performing/Practical Art)

### **FILMMAKING**

5 CREDITS

**Prerequisite: Grades 10, 11, 12**

Full Year

**INTRODUCTION TO VIDEO PRODUCTION (formerly Communication Arts Through Television 1);  
Teacher Approval**

This course builds on the skills learned in Intro to Video Production, focusing on the technical and creative aspects of filmmaking. Students will learn production steps from pitch to screening. They will conceptualize, plan, film, and edit as well as learn about the rich history and evolution of the art of film. (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 in a variety of genres.



**PUBLIC SPEAKING AND EFFECTIVE MODERN COMMUNICATION**

2.5 CREDITS

**Prerequisite: None**

One Semester

In this course, students will develop skills to become confident in communication and public speaking. Whether preparing for college, for future careers, or for simply aiming to improve communication skills, this course empowers students to articulate their thoughts with poise, clarity, and impact. Students will also learn how technology is used to promote communication. This is a FEA course option.

**FILM STUDIES**

2.5 CREDITS

**Prerequisite: None**

One Semester

Students will explore the art of storytelling through the lens of cinema. Analyze iconic films, dissect cinematography techniques, and delve into the impact of film on culture. Engage in discussions, screenings, comparison to novels and stories, and analytic writing to gain a comprehensive understanding of this powerful medium.

**JOURNALISM**

2.5 CREDITS

**Prerequisite: None**

One Semester

In this writing-intensive class, students will develop writing, interviewing, and reporting skills as they learn how to create different types of news articles. One goal of this class is the publishing of student articles in our school newspaper, *Echo Lites*. Students will also explore the production and impact of newspapers and other news media on our society.

**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.

# MATHEMATICS DEPARTMENT

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

Students wishing to take an AP course must complete an AP Course application.

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

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

## **ADVANCED PLACEMENT PRE-CALCULUS**

5 CREDITS

**Prerequisite: See Above Rubric**

Full Year

Advanced Placement Pre-Calculus is designed to prepare students for the Advanced Placement Examination. This course is designed to explore polynomials, rational functions, exponential and logarithmic functions, trigonometric and polar functions, functions involving parameters, vectors, and matrices, and topics involving graphing calculators are considered as well. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 4 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

## **ADVANCED PLACEMENT CALCULUS AB**

5 CREDITS

**Prerequisite: See Above Rubric**

Full Year

This is a college level course in differential and integral calculus. The course work will help prepare students to follow careers in engineering, physics, mathematics, and to a lesser extent, other science fields. Students should be knowledgeable in Algebra, Plane and Analytic Geometry, and Pre-Calculus before they elect to take AP Calculus. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 4 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

## **ADVANCED PLACEMENT CALCULUS BC**

5 CREDITS

**Prerequisite: See Above Rubric**

Full Year

**Precalculus Honors or AP Precalculus**

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: See Above Rubric**

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. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 3 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

## **PRE-CALCULUS HONORS**

5 CREDITS

**Prerequisite: A+ in Algebra II CP and A+ on the Algebra II CP Quarterly Assessments OR**

Full Year

**B+ in Algebra II Honors and B on the Algebra II Honors Quarterly Assessments;**

**Met or exceeded expectations on Algebra NJSLA-M;**

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

## **PRE-CALCULUS**

5 CREDITS

**Prerequisite: C- in Algebra II Honors or B in Algebra II CP (C on each quarterly exam)  
or successful completion of Algebra III/Trig**

Full Year

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

### FUNDAMENTALS OF COLLEGE ALGEBRA

5 CREDITS

**Prerequisite:** Grades 11-12 and/or potential graduates;

Full Year

**Successful completion of Algebra I, Algebra II and Geometry with a grade of B or higher**

This course is designed to strengthen the algebraic skills of students. There will be a focus on the application of mathematical concepts and problem-solving. Students who take this class will reinforce mathematics concepts and gain skills that will help them on college entrance exams and prepare them for higher-level mathematics. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 3 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

### STATISTICS

5 CREDITS

**Prerequisite:** Passed Algebra II with a grade of B- or below

Full Year

**(Only if the student took Algebra II in 11th grade)**

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

### ALGEBRA III AND TRIGONOMETRY

5 CREDITS

**Prerequisite:** B- or lower in Algebra II or D in Algebra II Honors

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, and conic sections.

### CALCULUS HONORS

5 CREDITS

**Prerequisite:** B in Pre-Calculus OR C+ in Pre-Calculus Honors;

Full Year

This course includes a non-sophisticated treatment of limits and continuity of functions. The definition of derivative and definite integral are developed in detail. The process of differentiation and integration of algebraic, circular, exponential and logarithmic functions and their applications are studied in depth. Several techniques of integration are explored including algebraic substitutions. **This course is being offered in conjunction with Middlesex College. If you choose to obtain 3 college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

### ALGEBRA 1

5 CREDITS

**Prerequisite:** Grade 8 Math

Full Year

This is a full year Algebra I 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 the study of world problems is emphasized.

### PLANE GEOMETRY

5 CREDITS

**Prerequisite:** Algebra I

Full Year

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

### PLANE GEOMETRY HONORS

5 CREDITS

**Prerequisite:** A- in Algebra I Honors OR A in Algebra 8;

One Semester

**A- or higher on Quarterly Assessments;**

**Met or Exceeded Expectations on Form B Algebra I NJSLA-M/LinkIt Benchmark**

This course is designed for those students who have accelerated in their study of Algebra I or who have been exceptional students in Algebra I 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.

### ALGEBRA II

5 CREDITS

**Prerequisite:** C- or higher in Algebra 1

Full Year

This course is a continuation of Algebra I. Students will be introduced to more advanced concepts of algebra and will increase their understanding of the concepts of numbers and space. Applications of mathematics through a study of word problems are discussed at various times throughout the course.

### ALGEBRA II HONORS

5 CREDITS

**Prerequisite:** B+ in Algebra I Honors;

Full Year

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

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

**ALGEBRA 2 and Data Analysis**

5 CREDITS

**Prerequisite: C- or below in Algebra 1**

Full Year

This course offers a dynamic blend of essential algebra and hands-on data science. In the first semester, you'll build a strong foundation in various functions, including quadratic, polynomial, and trigonometric. The second semester takes a project-based approach to data science, where you'll explore real-world data, master analysis techniques, and investigate critical concepts like bias and uncertainty.

**MATH 104: ALGEBRA LAB**

2.5 CREDITS

**Prerequisite: Standardized Test Scores**

One Semester

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

**MATH 204: GEOMETRY LAB**

2.5 CREDITS

**Prerequisite: Current enrollment in Plane Geometry AND C- or lower in Algebra I;  
AND/OR Not Meeting Expectations on NJSLA-M**

One Semester

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

**MATH 304**

2.5 CREDITS

**Prerequisite: Standardized Test Scores**

One Semester

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

**MATH 404 A (Fall)**

2.5 CREDITS

**MATH 404 B (Spring)**

2.5 CREDITS

**Prerequisite: Standardized test scores**

One Semester

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

# ***MUSIC AND PERFORMING ARTS DEPARTMENT***

## **ADVANCED JAZZ STUDIES**

5 CREDITS

**Prerequisite: Audition/Interview & departmental approval**

Full Year

This full-year course is designed to meet the needs of the serious music student. Coursework will include 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/5 CREDITS

**Prerequisite: Instrumental Proficiency**

One Semester/Full Year

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

## **CHOIR 101**

2.5 CREDITS/5 CREDITS

**Prerequisite: None**

One Semester/Full Year

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

## **CHOIR 201**

2.5 CREDITS/5 CREDITS

**Prerequisite: Choir 101 and/or Audition**

One Semester/Full Year

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

## **CHOIR 301**

2.5 CREDITS/5 CREDITS

**Prerequisite: Choir 201 and/or Audition**

One Semester/Full Year

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

## **CHOIR 401**

2.5 CREDITS/5 CREDITS

**Prerequisite: Choir 301 and/or Audition**

One Semester/Full Year

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

## **MUSIC TECHNOLOGY I**

2.5 CREDITS

**Prerequisite: None**

One Semester

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

## **MUSIC TECHNOLOGY II**

2.5 CREDITS

**Prerequisite: Minimum of a B in Music Technology I**

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)

## **THEATRE I**

2.5 CREDITS

**Prerequisite: None**

Full Year

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

## **THEATRE II: ACTING, DIRECTING, & PRODUCTION**

5 CREDITS

**Prerequisite: Theatre I**

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  
Full Year

**Prerequisite: Theatre I & II;**

**Teacher Recommendation**

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)

## ***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  
(3) Marking Periods

**Prerequisite: None**

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  
(1) Marking Period

**Prerequisite: None**

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 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 lab sciences will be made based on satisfying the prerequisites for both courses through the supervisor. Waivers will not be entertained for AP Biology, AP Chemistry, AP Environmental Science or AP Physics.

## **ADVANCED PLACEMENT BIOLOGY**

6 CREDITS

**Prerequisite: Semester 1 average of A in current SCIENCE AND LAL courses;**

Full Year

**A- in Biology Honors OR A in Biology CP(6);**

**Taking or completed Chemistry CP or higher;**

**completed AP Science application**

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

## **ADVANCED PLACEMENT CHEMISTRY**

6 CREDITS

**Prerequisite: A- in Chemistry Honors OR A in Chemistry CP (6);**

Full Year

**Semester 1 average of A or higher in current MATH AND LAL course;**

**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. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

## **ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE**

6 CREDITS

**Prerequisite: Semester 1 average on A in current SCIENCE AND LAL course;**

Full Year

**A- in Biology Honors OR A in Biology CP (6);**

**Taking or completed Chemistry 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;**

Full Year

**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: Grades 11-12;**

One Semester

**C in Biology or Environmental Science**

This Astronomy course delves into the wonders of the universe, exploring celestial bodies, astronomical phenomena, and the fundamental principles of cosmology. Students will investigate the solar system, stars, galaxies, and the broader cosmos, studying their formation, evolution, and interactions. Topics include planetary science, stellar classification, the life cycle of stars, black holes, and cosmological theories.

**BIOLOGY HONORS**

6 CREDITS

**Prerequisite: Semester 1 average of B+ in Science 8401 OR A- in Science 8402 (for 9th grade);**

Full Year

**Semester 1 average A in Integrated Science (for 10th grade);****B+ in LAL course;****Quarterly Assessment grade of B+ 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**

5 CREDITS

**Prerequisite: C- in 8401, C in 8402 or**

Full Year

**C in Integrated Science AND C in current LAL course;****Teacher recommendation**

The 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\*.

**BIOLOGICAL LIFE SCIENCES**

5 CREDITS

**Prerequisite: Integrated Science**

Full Year

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 Biology CP, but with less rigor in terms of detail and number of additional topics covered.

**CHEMISTRY HONORS**

6 CREDITS

**Prerequisite: B+ or higher in Biology Honors;**

Full Year

**Quarterly Assessment grade of B+ or higher in current science course;****B+ in current honors math OR A in CP level Math; B in Algebra I;****Teacher Recommendation;****Concurrent enrollment or completion of Algebra II at the college preparatory level 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: C+ in Biology CP (6) OR B in Biology (5);**

Full Year

**B in current Math course;****C+ Algebra I;****Teacher Recommendation;****Concurrent enrollment in Algebra II**

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

**ENVIRONMENTAL SCIENCE**

5 CREDITS

**Prerequisite: Grades 11-12;**

Full Year

**Successful completion of Biology and one other lab science course**

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

**FOOD SCIENCE**

2.5 CREDITS

**Prerequisite: Grades 11-12; Successful completion of Chemistry**

One Semester

This semester lab elective involves the application of science concepts and principles such as chemical reactions, and physical and chemical properties of food, incorporating nutrition, food processing techniques and procedures in preparation of common foods. This class will examine the role of food preservatives, polymer denaturation and prevention of food spoilage. Career awareness and planning for success in the food industry/research development/FDA/Hospitality industry is also included in this course.

**FORENSIC SCIENCE**

2.5 CREDITS

**Prerequisite: B in Biology CP (6) or higher**

One Semester

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

**HUMAN ANATOMY, PHYSIOLOGY AND DISEASE**

2.5 CREDITS

**Prerequisite: Grades 11-12;**

One Semester

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

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

\*This course contains some dissections. Please see and review written Option Statement at the end of the Science courses\*

## **HUMAN ANATOMY & PHYSIOLOGY HONORS**

5 CREDITS

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

Full Year

**B+ in Chemistry Honors OR A- in Chemistry CP (6); A- Biology Honors OR A in Biology CP (6)**

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

## **INTEGRATED SCIENCE**

5 CREDITS

**Prerequisite:** For Grade 9; completion of 8th Grade Science

Full Year

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

## **MARINE BIOLOGY**

2.5 CREDITS

**Prerequisite:** B- in Biology CP (6) OR A- in Biology CP (5)

One Semester

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

## **PHYSICS HONORS**

6 CREDITS

**Prerequisite:** Semester 1 average of A- in 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;**

**Teacher Recommendation; Concurrent enrollment or completion of Pre-Calculus or higher**

Honors Physics is an extremely rigorous inquiry-based course designed to expand on the principles of how and why the world around us works. The course is designed to find practical applications of physics through experiments, data analysis, problem solving, projects and discussions with an emphasis on mathematical applications. Students will investigate topics of motion, force, energy, waves, sound, light and electricity & magnetism. This course is highly recommended for students considering a career in science or engineering. Math intensive, Pre-Calculus is infused within the context of the Physics content. The intense rigor of this course should be strongly considered when choosing to enroll. **This course is being offered in conjunction with Middlesex College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.**

## **PHYSICS CP**

6 CREDITS

**Prerequisite:** Open to students in Grades 11-12;

Full Year

**Semester 1 average of B+ or higher in Chemistry CP6 or B+ higher in Algebra II 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.

## ***\*DISSECTION OPTION STATEMENT\****

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

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

# ***SOCIAL STUDIES DEPARTMENT***

## **FRESHMAN FOUNDATION: SUCCESS AT SWMHS AND BEYOND**

2.5 CREDITS

**Prerequisite: Grade 9**

**\*This course is required for all students in Grade 9**

One Semester

Freshman Foundations is a project-based course with an overview of school applications, transitioning to high school, and life skills. Students will develop skills in computer programs such as the SWMHS Student Information System by using Google, Microsoft applications, and OnCourse Connect. They will also receive instruction on the rules and proper procedures of Internet safety/Digital Citizenship. Added focus will be on improving students' everyday soft and study skills. The course will also include presentations and lessons by the counseling staff, the SAC counselor, and high school administrators to assist them with the transition from middle school to high school.

## **WORLD HISTORY**

5 CREDITS

**Prerequisite: Grade 9 placement in Core English;**

Full Year

**Teacher recommendation**

This course offers a foundational overview of global history, covering key events, cultures, and civilizations from ancient times to the modern era. Students will explore significant themes such as politics, economics, social structures, and cultural developments. Through discussions, projects, and assessments, students will develop critical thinking skills, and a greater understanding of how historical events shape the world today. Emphasis will be placed on the chronological view of world history from the Classical civilizations of Greece and Rome through nationalistic revolutions of the 1800s. Focus will be placed upon the Medieval World, the Renaissance, and the Reformation. Students identified as needing support in ELA as evidenced by ELA NJSLA and/or ELA LinkIt benchmarks may be recommended for this course.

## **WORLD HISTORY CP**

5 CREDITS

**Prerequisite: Department Approved Rubric;**

Full Year

**Teacher recommendation**

This course provides a more in-depth examination of world history, focusing on major historical events, movements, and figures that have influenced global development. Students will engage in critical analysis of primary and secondary sources, fostering their ability to interpret historical narratives and understand diverse perspectives. Emphasis is placed on research skills and essay writing, preparing students for higher-level coursework and promoting informed citizenship. Emphasis will be placed on the chronological view of world history from the Classical civilizations of Greece and Rome through nationalistic revolutions of the 1800s. Focus will be placed upon the Medieval World, the Renaissance, and the Reformation.

## **WORLD HISTORY HONORS**

5 CREDITS

**Prerequisite: Department Approved Rubric;**

Full Year

**Teacher recommendation**

This rigorous course dives deeply into world history, encouraging advanced critical thinking and analytical skills. Students will explore complex themes and connections across different cultures and time periods, with a focus on historiography and the interpretation of diverse sources. The curriculum includes extensive research projects, discussions, and presentations, promoting independent scholarship and a nuanced understanding of the forces that have shaped our world. This course is designed for motivated students seeking a challenging academic experience. Emphasis is placed on the chronological view of world history from the Classical civilizations of Greece and Rome through nationalistic revolution of 1848. Focus will be placed upon the Medieval World, the Renaissance and the Reformation.

## **US HISTORY I**

5 CREDITS

**Prerequisite: Grade 10 placement in Core English;**

Full Year

**Teacher recommendation**

This course provides a foundational overview of American history from pre-Columbian times to the beginning of the twentieth century. Students will explore significant events, figures, and themes, including Indigenous cultures, colonization, the American Revolution, and the formation of the United States. Through discussions, projects, and assessments, students will develop critical thinking skills and an understanding of the historical context that shaped the nation. Students identified as needing support in ELA as evidenced by ELA NJSLA and/or LinkIt benchmarks may be recommended for this course.

## **US HISTORY I CP**

5 CREDITS

**Prerequisite: World History CP;**

Full Year

**Teacher recommendation**

A chronological study of the history of the United States from pre-Columbian explorations through the beginning of the twentieth century. This course offers a more in-depth examination of early American history, focusing on key developments and their impacts on society. Students will analyze primary and secondary sources, engaging in discussions about themes such as democracy, slavery, and westward expansion. Emphasis is placed on developing research and writing skills, preparing students for higher-level coursework while fostering informed civic engagement.

## **US HISTORY I HONORS**

5 CREDITS

**Prerequisite: Minimum of a B+ in World History Honors or A in CP World History;**

Full Year

**Met/Exceed expectations on January 2025 ELA Benchmark;**

**Teacher recommendation**

An in-depth, chronological study of the history of the United States from pre-Columbian explorations through the beginning of the twentieth century. This rigorous course explores early American history in greater depth, encouraging advanced analytical and critical thinking skills. Students will examine complex themes and connections, utilizing historiography and diverse sources to interpret historical narratives. The coursework includes extensive research projects, presentations, and in-depth discussions, aimed at promoting independent scholarship and a deeper understanding of the foundational events that shaped the United States. The course will be supplemented by documents and literature pertinent to the period of study.

**ADVANCED PLACEMENT AP US HISTORY I**

5 CREDITS

**Prerequisite: See below Rubric**

Full Year

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

Current Course Level	Quarterly 1 Exams History/English	Quarterly 2 Exams History/English	Semester 1 Grades History/English	January 2025 ELA Benchmark Assessment
Honors History/English = 10 pts. each	A range = 5 points each	A range = 5 points each	A range = 10 points each	Exceed Expectations = 10 points
CP History/English = 5 pts. each	B = 3 points	B = 3 points	B = 5 points each	Met Expectations = 5 points
	B = 1 point	B = 1 point	B = 2 points each	

This Advanced Placement course provides a comprehensive study of American history from pre-Columbian times through the beginning of the 20th century. Students will engage with complex historical themes, develop critical analytical skills, and interpret primary sources to understand the intricacies of historical narratives. The course emphasizes writing and research, preparing students for the AP Exam and encouraging a deep exploration of how historical events influence contemporary society. The APUSH Examination will take place the following year, in AP US History II, if students continue on the AP-level track. Students will be exposed to traditional and revisionist interpretations of United States History.

**US HISTORY II**

5 CREDITS

**Prerequisite: Grade 11 placement in Core English;**

Full Year

**Teacher recommendation**

A continuation of US History I. This course provides an overview of American history from the early 20th century era to the present day. Students will explore significant events, movements, and figures, including industrialization, the Civil Rights Movement, and contemporary issues. Through discussions, projects, and assessments, students will develop critical thinking skills and an understanding of the social, political, and economic factors that have shaped modern America. Students identified as needing support in ELA as evidenced by ELA NJSLA and/or ELA LinkIt benchmarks may be recommended for this course.

**US HISTORY II CP**

5 CREDITS

**Prerequisite: US History I CP;**

Full Year

**Teacher recommendation**

A continuation of US History I. This course offers a more in-depth examination of modern American history, focusing on key developments and their impacts on society. Students will analyze primary and secondary sources, engaging in discussions about themes such as globalization, civil rights, and American foreign policy. Emphasis is placed on developing research and writing skills, preparing students for higher-level coursework and fostering informed civic engagement.

**US HISTORY II HONORS**

5 CREDITS

**Prerequisite: Minimum of a B+ in US History I Honors or A in CP US History I;**

Full Year

**Met/Exceed expectations on January 2025 ELA Benchmark;**

**Teacher recommendation**

A continuation of US History I Honors. An in-depth chronological study of the history of the United States from the twentieth century to the present. This rigorous course delves deeper into modern American history, encouraging advanced analytical and critical thinking skills. Students will explore complex themes, utilizing historiography and diverse sources to interpret historical narratives. The coursework includes extensive research projects, presentations, and in-depth discussions, promoting independent scholarship and a nuanced understanding of the events and movements that have shaped contemporary America. The course will be supplemented by documents and literature pertinent to the period of study.

**ADVANCED PLACEMENT US HISTORY II**

5 CREDITS

**Prerequisite: See below Rubric**

Full Year

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

Current Course Level	Quarterly 1 Exams History/English	Quarterly 2 Exams History/English	Semester 1 Grades History/English	January 2025 ELA Benchmark Assessment
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Honors History/English = 10 pts. each	A range = 5 points each	A range = 5 points each	A range = 10 points each	Exceed Expectations = 10 points
CP History/English = 5 pts. each	B = 3 points	B = 3 points	B = 5 points each	Met Expectations = 5 points
	B = 1 point	B = 1 point	B = 2 points each	

A continuation of AP US History I. This Advanced Placement course offers a comprehensive study of American history from the turn of the 20th Century to the present era. Students will engage with complex historical themes, develop critical analytical skills, and interpret primary sources to understand the intricacies of historical narratives. The course emphasizes writing and research, preparing students for the AP exam and encouraging a deep exploration of how historical events influence modern society and policy. Students will be exposed to traditional and revisionist interpretations of United States History. Emphasis will be placed on preparation for the APUSH Examination, which students will take during this course.

## ***SOCIAL STUDIES ELECTIVES***

### **CURRENT HISTORY**

2.5 CREDITS

**Prerequisite: Grades 11-12**

One Semester

This course examines contemporary events and their historical contexts, encouraging students to analyze news stories, trends, and global issues. Students will develop critical thinking skills as they explore the connections between past and present, discuss the implications of current events, and engage in debates about their significance in shaping society. Students will examine the economic, geographic, world, political and sociological areas of today. Emphasis will be placed upon news articles and media broadcasts.

### **FINANCIAL LITERACY IN THE 21<sup>ST</sup> CENTURY (ECONOMICS)**

2.5 CREDITS

**Prerequisite: None \*This course is a Graduation requirement.\***

One Semester

This course equips students with essential financial skills for modern life, covering topics such as budgeting, saving, investing, credit management, and financial planning. Students are given a basic understanding of personal finance along with the principles of credit, interest, debt, checking, savings and taxes. Through practical activities and real-world scenarios, students will learn to make informed financial decisions and understand the importance of financial responsibility in their personal and professional lives. Areas to be highlighted include the role of the government, money and banking, and comparative economic systems.

### **HISTORY OF AMERICAN CULTURE**

2.5 CREDITS

**Prerequisite: Grades 10-12**

One Semester

This interactive course explores the development of American culture of the 20th and 21st centuries through the lens of art, literature, movies/cinema, music, and social movements. Students will examine how historical events, and cultural shifts have influenced American identity and values, engaging in discussions about the impact of culture on society and vice versa. 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.

### **HISTORY OF NEW JERSEY**

2.5 CREDITS

**Prerequisite: Grades 10-12**

One Semester

This course delves into the rich historical tapestry of New Jersey, exploring its diverse past, cultural heritage, and significant contributions to American history. Students will examine the state's founding, colonial era, industrialization, key historical figures, pivotal events, culture, and social transformations. Through coursework, learners will gain a comprehensive understanding of New Jersey's role in shaping the nation.

**PEER LEADERSHIP**

5 CREDITS

**Prerequisite: Grade 12;**

Full Year

**Application review; Teacher recommendation**

A course that prepares Seniors to serve as role models/mentors for Freshmen students. This course focuses on developing leadership skills among students, emphasizing effective communication, teamwork, and conflict resolution. Students will engage in group activities, community service projects, and discussions that promote empathy and understanding, preparing them to become positive leaders in their schools and communities. 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. It explores the psychological factors that influence human behavior. Students will study concepts such as socialization, group dynamics, and cultural influences, gaining insights into how individuals interact within society and the impact of societal structures on behavior. Topics such as learning, emotions, coping with frustration, anxiety, the nervous system, motivation, personality disorders and intelligence will be discussed.

**SOCIOLOGY: EXPLORING HUMAN SOCIETY**

2.5 CREDITS

**Prerequisite: Grades 11-12**

One Semester

This course introduces students to the fundamental concepts and theories of sociology, focusing on the study of human society, its structures, and dynamics. Through its coursework, students will examine various social institutions such as family, education, economy, and government. Topics include social stratification, culture, deviance, globalization, and social change. Students will analyze societal norms, inequalities, and patterns of behavior to better understand the complexities of social interaction and the ways in which societies function.

**STREET LAW I**

2.5 CREDITS

**Prerequisite: Grades 11-12**

One Semester

This introductory course provides students with a foundational understanding of the legal system, focusing on practical legal issues that affect everyday life. Topics include civil rights, contracts, criminal law, and the judicial process, with an emphasis on developing critical thinking and legal literacy through case studies and discussions. 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 as active citizens.

**WORLD GEOGRAPHY & GLOBAL ISSUES**

2.5 CREDITS

**Prerequisite: None**

One Semester

This course offers a comprehensive exploration of the interconnectedness between geographical landscapes, diverse cultures, and pressing global challenges. Students will study the physical and human geography of regions worldwide, examining factors shaping landscapes, climates, and cultural practices. Emphasis will be placed on understanding the relationships between people and their environments, including topics such as population dynamics, urbanization, migration patterns, and environmental sustainability. Additionally, students will delve into pressing global issues such as climate change, economic disparities, human rights, and geopolitical conflicts.

# ***TECHNOLOGY DEPARTMENT***

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

## **AUTO TECHNOLOGY I**

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 II**

5 CREDITS

**Prerequisite: C- in Auto Technology I; Departmental approval**

Full Year

A continuation of Auto Tech I. 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 III**

5 CREDITS

**Prerequisite: C- in Auto Technology II; Departmental approval**

Full Year

A continuation of Auto Tech II. 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: Concurrent Enrollment or completion of Biology;**

One Semester

**Primarily for students enrolled in the STEM Academy; A- in Algebra I;**

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

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

5 CREDITS

**Prerequisite: None**

Full Year

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

## **ADVANCED ARCHITECTURAL DESIGN**

5 CREDITS

**Prerequisite: Engineering Drawing**

Full Year

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

## **ROBOTICS**

5 CREDITS

**Prerequisite: None**

Full Year

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

## **WOOD I**

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 II**

5 CREDITS

**Prerequisite: Wood I;**

Full Year

**Departmental approval**

A continuation of Wood I. 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 III**

5 CREDITS

**Prerequisite: Wood II;**

Full Year

**Departmental approval**

A continuation of Wood II. 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***

**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 II / FRENCH II**

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 III / FRENCH III**

5 CREDITS

**Prerequisite: Teacher recommendation;  
B+ for Semester 1**

Full Year

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

**SPANISH IV / FRENCH IV**

5 CREDITS

**Prerequisite: Teacher Recommendation;  
B+ for Semester 1**

Full Year

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

**ADVANCED PLACEMENT SPANISH**

5 CREDITS

**Prerequisite: B+ or higher for Semester 1, Q1 and Q2 exams, and prior year final grade;  
Completed Application**

Full Year

**Students may be required to take placement exam**

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

**AMERICAN SIGN LANGUAGE I**

5 CREDITS

**Prerequisite: None**

Full Year

Explore the rich world of communication through American Sign Language from basic gestures to expressive conversations. Students will be introduced to ASL and Deaf Culture and will learn vocabulary for general topics such as greetings, people and things, food, and time. This course fulfills the World Language requirement for graduation.

**AMERICAN SIGN LANGUAGE II**

5 CREDITS

**Prerequisite: Successful completion of ASL I;  
Teacher recommendation**

Full Year

Continuation of level 1. Students will continue to develop knowledge and understanding of ASL and Deaf Culture. Students will develop correct grammatical and sentence structure as well as convey proper facial expression and body language while signing.

**AMERICAN SIGN LANGUAGE III**

5 CREDITS

**Prerequisite: Successful completion of ASL I and II;  
Teacher Recommendation**

Full Year

Continuation of level 2. Students will continue to develop knowledge and understanding of ASL and Deaf Culture at an advanced level.



# ADDITIONAL OFFERINGS

## APEX LEARNING AND IMAGINE LEARNING: INDIVIDUAL ONLINE COURSES FOR CREDIT

**Prerequisite: Grade 12 only. See below for prerequisites for specific courses.**

*Seniors are permitted to take only TWO online courses during their final school year.*

Both Apex and Imagine Learning offer rigorous, standards-based, online courses that meet high school graduation requirements. These courses provide students the option to take up to two of their courses virtually.

The following courses are currently available:

Semester Courses: 2.5 Credits	
AP Government and Politics	AP Psychology**
AP Macroeconomics*	
AP Microeconomics*	

\*Successful completion of Financial Literacy in the 21<sup>st</sup> Century is the prerequisite for AP Macroeconomics and AP Microeconomics

\*\*Successful completion of Social Foundations of Human Behavior is the prerequisite for AP Psychology

## WORK BASED LEARNING

5 CREDITS

**Prerequisite: Must be recommended by Child Study Team**

Full Year

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

## 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)



**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



# CAREER ACADEMIES

## Visual Arts Career Academy

The Arts strand of this academy offers a comprehensive course sequence for students who may be interested in pursuing a career in the art field.

Professional Artist	Graphic Designer	Illustrator	Animator
Game Designer	Fashion Designer	Architect	Art Teacher
Art Gallery Curator	Graphic Art Technician	Marketing/Advertising	

**\*\* All incoming 9<sup>th</sup> and 10<sup>th</sup> grade students are invited to apply to the Visual Arts Career Academy\*\***

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
<b>Choose one of the following courses:</b>	<b>Choose two of the following courses:</b>	<b>Choose one of the following courses:</b>	<b>Choose one of the following courses:</b>
Introduction to Art	Drawing	Studio Art	AP Art History
Introduction to 3D Art and Design	Painting		Art Workshop: A Capstone Course
Introduction to Digital Arts	Ceramics 1		
	Ceramics 2		
	Stained Glass		
	Digital Arts II		
	Fashion Illustration		

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

## Biomedical STEM Academy

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

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

<https://forms.gle/v5y2N1ZXDEGWgiTY8>

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

# SAYREVILLE WAR MEMORIAL HIGH SCHOOL BUSINESS ACADEMY

TO EMPOWER STUDENTS OF TODAY TO BECOME BUSINESS LEADERS OF TOMORROW

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

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

## Business Academy – CTE Accounting Track

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

### National Business Honors Society

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

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

### EXTERNSHIP EXPERIENCE (Open to Sophomores ONLY)

#### Rutgers University Business for Youth (RUBY)

The 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 experiential learning experience through the RUBY Program is to provide the following:

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

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

# STEM ACADEMY COURSE OF STUDY – COMPUTER SCIENCE

EMPOWER STUDENTS OF TODAY TO BECOME DIGITAL INNOVATORS OF TOMORROW

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

## Computer Science STEM Academy CTE Information Technology Track

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

### Computer Honors Society

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

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

## Engineering STEM Academy

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

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

<https://forms.gle/v5y2N1ZXDEGWgiTY8>

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

## Future Educators Academy

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

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

<b>Choose 2 of the following Elective courses</b>	<b>Required courses</b>
Children's Literature (2.5)	Introduction to Tomorrow's Teachers (2.5)
Public Speaking and Effective Modern Communication (2.5)	Tomorrow's Teachers Honors (5.0)
Parent/Child Development (2.5)	
Social Foundations of Human Behavior (2.5)	



# Dual Enrollment Opportunities

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

Tuition for and 3- or 4- credit courses will be approximately \$135 per course for those who register for a dual enrollment course.

**Note: Registration is completed online directly on the Middlesex College site. Incomplete, late or incorrect applications will not be accepted. Students will be registering and communicating directly with Middlesex College for the registration and payment process.**

**The following courses may be available for dual enrollment credit.**

**Middlesex College approves the current teacher and curriculum each August.**

**Courses may be added or deleted. The final approved course offering list will be available in September each school year.**

AP Calculus AB
AP Calculus BC
AP Chemistry
AP Computer Science
AP Pre-Calculus
AP Statistics
Business Organization
Calculus
Computer Science and Applications
English 12 Honors
Financial Accounting
Forensic Science
Front End Web Design
Fundamentals of College Algebra
Managerial Accounting
Physics 11
Pre-Calculus
Spanish 3
Spanish 4 (Must have registered for, paid, and successfully completed Spanish 3 dual enrollment in the previous year to qualify)
Statistics

**PLEASE NOTE:**

Middlesex College cannot guarantee transfer of any course(s) taken for credit. Please check [www.njtransfer.org](http://www.njtransfer.org) or inquire with the receiving institution(s) prior to registration. Upon graduation, students need to request their Middlesex College transcript directly from the college and send their transcript to the college they will be attending.