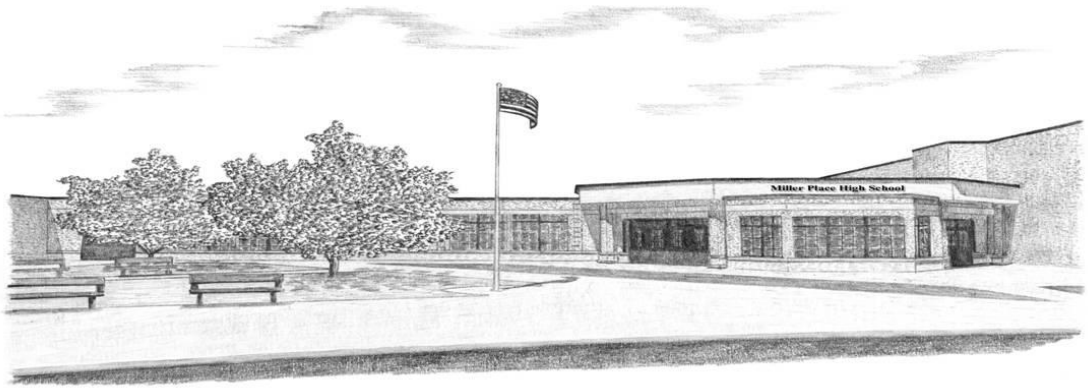
MILLER PLACE HIGH SCHOOL

Course Offering Guide



SCHOOL YEAR 2026-2027

TABLE OF CONTENTS

USING THE CATALOG FOR PROGRAM PLANNING 1

SCHOOL COUNSELORS 1

EQUAL EDUCATIONAL OPPORTUNITY 1

COURSES AND SCHEDULING PROCEDURES 1

AP/HONORS COURSE ENROLLMENT 1

PROGRAM CHANGES 2

WITHDRAWAL FROM A COURSE 2

LEVEL CHANGES 2

GRADE WEIGHTING 2

GRADE POINT AVERAGE 2

HONOR ROLL 2

SELECTION OF VALEDICTORIAN AND SALUTATORIAN 2

EARLY GRADUATION 3

CREDIT FOR COURSES TAKEN OUTSIDE OF MILLER PLACE HIGH SCHOOL 3

PLANNING FOR COLLEGE 3

OVERVIEW OF ENTRANCE REQUIREMENTS FOR POST HIGH SCHOOL PROGRAMS 4

NCAA (NATIONAL COLLEGIATE ATHLETIC ASSOCIATION) 5

ATTENDANCE AND COURSE CREDIT 5

MILLER PLACE HIGH SCHOOL GRADUATION REQUIREMENTS 6

GRADUATION CHECKLIST 8

9TH GRADE STUDENTS ENTERING 10TH GRADE COURSE SELECTION SHEET 9

10TH GRADE STUDENTS ENTERING 11TH GRADE COURSE SELECTION SHEET 10

11TH GRADE STUDENTS ENTERING 12TH GRADE COURSE SELECTION SHEET 11

ART 12

BUSINESS 14

ENGLISH 16

AP CAPSTONE PROGRAM 21

HEALTH 22

MATHEMATICS 23

MUSIC 28

PHYSICAL EDUCATION 30

SCIENCE 31

SOCIAL STUDIES 37

TECHNOLOGY 42

WORLD LANGUAGES 43

VOCATIONAL PROGRAMS (FORMERLY BOCES) 45

SUPPORT SERVICES 47

USING THE CATALOG FOR PROGRAM PLANNING

Course selection is an important aspect of all students academic career. Your school counselor, faculty, school administrators, and your parents can advise you in the course selection process, but you should be fully involved in the final decision and ready to challenge yourself to the best of your ability with your course selections. For this reason, we ask you to read this course selection book with considerable thought and care. In selecting your courses for next year, you should consider several factors. These factors include graduation requirements and plans for the future.

Your future career path or school plans should influence your course selections in high school. Talk about your future with your parents, school counselors, and teachers. Beginning in your sophomore year, speak with your school counselor to discuss possible areas of interest, visit college campuses or review vocational programs to begin developing areas of interest. Talk with the various college and career representatives when they visit your school. Only after you have done all these things will you be able to make sound decisions relative to course selection.

SCHOOL COUNSELORS

The school counselors of Miller Place High School extend their knowledge and expertise in assisting you in planning a successful high school experience. They are knowledgeable in graduation requirements, Regents requirements and changes in our district's course offerings; let them help you!

Counselor	Students with the last Name
Ms. J. Fiumano	A⇨ D
Mrs. M. Gallo	E⇨ K
Mr. J. Scherer	L⇨ P
Ms. J. Hayden	Q⇨ Z

Parents are invited in 10th and 11th grade to meet with school counselors. Take advantage of this opportunity to learn more about the curriculum requirements in New York State. At the same time, you can find out about school activities, college admissions, learning styles and pre-college testing.

EQUAL EDUCATIONAL OPPORTUNITY

Each student will have equal educational opportunities and will not be excluded from participating in or having access to any course offerings, school services or activities on the basis of race, color, creed, sex, national origin, religion, age, marital status or handicapping condition. Anyone with a complaint concerning sex discrimination should contact the District's Title IX Compliance Officer, Ms. Susan Craddock at 474-2700. Complaints concerning discrimination on the basis of disability should be directed to the Special Education office at 474-2700.

COURSES AND SCHEDULING PROCEDURES

The course catalog is divided into sections based upon subject areas, and the subject area first lists the required course offerings and then elective course offerings. Each entry gives a basic course description, the length of the course, and the number of course credits given.

Be aware that courses are offered only if a sufficient number of students register for the course. Some courses listed may not be given if registration is too low. There are additional administrative reasons that a course may not be offered.

AP/HONORS COURSE ENROLLMENT

- Students are expected to exhibit mastery of course prerequisites.
- The grade required to enter a course will vary on the course itself.
- Students should have a final class average demonstrating mastery in both course work and assessment in the respective Honors/AP courses.
- Students complete a summer assignment when required.

PROGRAM CHANGES

Each student receives guidance on academic requirements and career counseling prior to the registration process. Therefore, students will be permitted to drop a course after June 25 only under exceptional circumstances, as determined by the Principal or designee. Each year's schedule of courses is based on student selection of and enrollment in course offerings.

Exceptional circumstances will include, but are not limited to: inappropriate placement, prior course failure, decision to accelerate, change in academic goals or career choice. Program changes will be made as advised by administration or counselors only to correct errors such as course omissions, course duplication, or improper course sequence.

WITHDRAWAL FROM A COURSE

It is expected that any student enrolling in a course will remain for its duration. However, there are circumstances that may result in a student dropping a course. **Students will only be permitted to drop a course within the first few days of the course or between the first progress report period and ten days after first quarter grades are posted. This drop period will be for extenuating circumstances only and will only be open for ten school days.** If a student drops a course after the time allotted, they will receive a "WF" on their permanent record. A "WF" will be calculated as a grade of fifty into the student's cumulative grade point average.

LEVEL CHANGES

It is expected that any student will remain in a course for its duration. However, if a level change is necessary, and appropriate, it is highly recommended to change the course level **up until ten days after the posting of first quarter report cards**. Quarter grades will move with the student to the new course, so if a level change is absolutely necessary the earlier the change can occur is in the student's best interest.

GRADE WEIGHTING

The grade weighting protocol recognizes that some academic courses are more challenging than others and therefore the protocol creates a relationship between all courses.

The grades in all Advanced, Advanced Placement, College level, and Honors will be given a 5 percent weighting increment when the cumulative grade point average is calculated. For calculation of the weight, grades received in these courses will be multiplied by 1.05 when computing the average. The 5 percent weighting is also applied to Advanced Placement, College Level and Honors courses for students transferring into Miller Place from other school districts.

GRADE POINT AVERAGE

Grade Point Average is computed each semester and at the end of each year; percentile distribution is determined based on final grade point averages.

HONOR ROLL

Names of students who have earned a GPA of 90 or higher are listed on the Honor Roll. Students who have earned a GPA of 95 or higher are listed on the High Honor Roll.

SELECTION OF VALEDICTORIAN AND SALUTATORIAN

A graduation committee, chaired by the building principal, administers all graduation awards. Selection of the senior class valedictorian and salutatorian is determined by:

1. Using student cumulative grades up to the end of junior year.
2. Employing an average of the first **two** quarter grades in senior year as the final senior grade.
3. The graduation committee will use the grade point average generated by these grades to make determination of the valedictorian and salutatorian.
4. Only those students who are officially enrolled as seniors on October 1st of their senior year are eligible to be valedictorian and salutatorian.

To be considered for valedictorian or salutatorian, a student must have earned at least 15 high school credits at MPHS.

EARLY GRADUATION

Students who wish to graduate early must:

1. Petition the building principal by the first day of the beginning of the senior year.
2. Complete a form in the Guidance Office after discussing with the counselor and parents an appropriate plan for the senior year and beyond.
3. To be considered for valedictorian and salutatorian, this decision must be made and documented in writing by October 1st of the senior year.
4. To be considered for valedictorian or salutatorian, a student must have earned at least 15 high school credits at MPHS.

CREDIT FOR COURSES TAKEN OUTSIDE OF MILLER PLACE HIGH SCHOOL

Students requesting credit for course taken in local colleges or universities must obtain approval from the Miller Place High School Principal prior to registration for these courses.

PLANNING FOR COLLEGE

College admission officers consider your high school record, special required examinations, personal qualities, and goals in determining your qualifications for admission. It is generally accepted that the best indicator of success is a student's high school record. This record begins in the freshman year or, in some cases, earlier. Selection of appropriate courses, good achievement, study habits, and attitudes are important every year. Students who plan to attend college should take during their high school years **at least** four years of English, four of Social Studies, three years of Regents Science, three years of Regents Mathematics, three years of World Language, computer and additional electives in their specific areas of interest.

From time to time, students seek advice on whether to take a more difficult program even if it runs the risk of "***lowering their grade point average."*** It is the position of the school and the Counseling Department that students should take the most challenging program possible, given appropriate advice by professionals. Colleges prefer students to take academic oriented courses and with increasing frequency are asking for descriptions of program options available to students. It is, in general, not in the student's best interest to aim at maintaining the grade point average; rather we advise to "challenge" and to get extra help that is offered before or after school.

A student should make tentative college selections early. By the time the junior year program is planned, the student should have some idea about the type of college he or she wishes to attend. The choice should become more specific upon entering senior year, and the student should make applications to three or four colleges early in the senior year. Parents are urged to discuss these decisions with the student, school counselor, and any other persons who may offer assistance.

Some students graduating from high school will not continue their education on the college level. The important thing to remember is that a sound high school education is as important to the student not planning on college as it is to the student who plans to attend college. The secret of becoming successful is identifying your strengths and capitalizing on them.

OVERVIEW OF ENTRANCE REQUIREMENTS FOR POST HIGH SCHOOL PROGRAMS

The following is an overview of the general entrance requirements for a variety of post secondary school programs. Each school has individual requirements which the student should check with the help of a school counselor.

Four-Year Degree-Granting Colleges	
English	*4 years college preparatory*
Math	*4 years recommended for competitive colleges*
Science	*4 years preferred with at least two-laboratory course. (Many require 3 years or more of a laboratory-oriented science.)*
World Language	*3-4 years of one language desired for competitive colleges*
Social Studies	*4 years minimum*

Engineering Colleges: 4- or 5- year programs	
English	*4 years college preparatory*
Math	*4 years required (including pre-calculus)*
Science	*4 years including Chemistry and Physics*
Social Studies	*4 years minimum*

Two-Year Junior and Community College. Transfer Programs (Associate Degree)
Requirements generally follow those which are similarly listed for 4-year colleges.

Two-Year Junior and Community College Program
Admission to programs such as secretarial, early childhood education, nursing, merchandising and retailing, physical therapy assistant, radiation therapy technician, account assistant and paralegal assistant, etc., depend upon individual college policies. High school subjects that include three years of college preparatory in the various major areas of study are desired.

Two-Year Technical Institutes and Schools	
English	*4 years college preparatory*
Math	*4 years required*
Science	*4 years including Chemistry*
Social Studies	*4 years minimum*

Nursing Programs
Admission requirements to Nursing Schools vary according to the degree that the student seeks. A collegiate program follows the same admission guidelines as those of four-year colleges. Hospital diploma programs leading to Registered Nurse or Licensed Practical Nurse Certification generally require that biology and chemistry be included in the student's high school program.

NCAA (National Collegiate Athletic Association)

The NCAA Eligibility Center is the organization that works with the NCAA to determine a student's eligibility for athletic participation in his or her first year of college enrollment. Students who want to participate in college sports during their first year of enrollment in college must register with the Eligibility Center.

While registration is the responsibility of the student-athlete, students are encouraged to meet with their counselor to ensure that they are enrolled in the proper courses to meet academic eligibility.

Courses that are approved by the NCAA Eligibility Center are noted with NCAA below each course title throughout the Guide.

To register with the eligibility center, you must complete and sign the Student Release Form (SRF) electronically and submit a registration fee. This SRF does two things:

1. It authorizes each high school you have attended to send the Eligibility Center your transcript, test scores, proof of graduation and other necessary academic information. Be sure to designate the NCAA to receive SAT and ACT scores when you register for the tests.
2. It authorizes the Eligibility Center to send your academic information to all colleges that request your eligibility status.

The student registers online via the NCAA Eligibility Center (www.eligibilitycenter.org). Create an account and complete a Domestic Student Release Form. Complete the SRF form online, and include your credit or debit card information to pay the fee. Once this process is complete notify the Counseling Department and your School Counselor that transcripts need to be sent to the Eligibility Center.

ATTENDANCE AND COURSE CREDIT

Students are expected to attend all scheduled classes. Academic achievement can be adversely affected by poor student attendance associated with unexcused or excused absences, tardiness and/or early departures. Students who miss classes or portions thereof are expected upon returning to class to consult with their teachers regarding missed work.

In order for a student to receive credit for a credit-bearing class, the student must be in attendance in that class at least 85%. A student will not be eligible for course credit according to the following schedule:

- Twenty-seven (27) absences for a full-year course.
- Fourteen (14) absences for a semester course or a full-year course that meets every other day.
- Seven (7) absences for a Physical Education semester course.

Students shall be considered absent from a class if they are absent from a class for 20 or more minutes of the class period. Three instances of tardiness of less than twenty (20) minutes to class shall be deemed to equal one absence. Please see the attendance policy for more specific information.

For students who attend vocational courses at BOCES, the District reserves the right to withdraw students from the BOCES program at any time they fail to maintain a minimum attendance rate of 85%.

A student that receives a Non-Credit (NC) in a course will have a score of 50% calculated into their Cumulative Grade Point Average for each Non-Credited course.

Miller Place High School Graduation Requirements

Content Area	Local* and Regents Diploma Requirements	Regents Diploma with Advanced Designation Requirements
	Credits	**Credits**
English	***4***	***4***
Social Studies	***4***	***4***
Math	***3***	***3***
Science	***3***	***3***
World Language	***1***	***3 *****
Art/Music	***1***	***1***
Health	***0.5***	***0.5***
Physical Education	***2***	***2***
Computer Applications	***0.5***	***0.5***
Electives	***3***	***1***
Total:	***22.0***	***22.0***

Note: **Local Diploma option is only available to classified students..*
***Students acquiring 5 units in Art, Music, Business, Technology or Vocational Education may be exempt. One unit of World Language is still required.*

EXAMINATION REQUIREMENTS

In addition to passing the required courses listed, New York State has established examination requirements. To receive a high school diploma, a student must achieve an acceptable score in **English, Mathematics, Global History, U.S. History & Government, and Science.**

1. **For the Regents Diploma,** student must achieve a score of 65 on the English Regents Examination, Algebra I, the Global History and Geography Regents Examination, the U.S. History and Government Regents Examination, and a Science Regents Examination.

2. **For the Advanced Regents Diploma,** in addition to the above, student must achieve a minimum score of **65** on the Geometry and Algebra 2 Regents Examination, the Living Environment/Biology Regents Examination, two additional Languages Other than English (LOTE) units and achieve a score of **65** on a locally created World Language Check Point "B" exam.

3. ****For the Advanced Regents Diploma,** students completing a five-unit sequence in career and technical education or the arts are not required to complete the additional two units of the World Language, but must still meet the requirements for the total number of units of credit.

(Cont'd on the next page)

4. **For a Local High school Diploma (via Safety Net for Students With Disabilities):**
   A. 55-64 pass option
   B. Compensatory Options
   - Student may score 45-54 on one or more of the require exams (excluding ELA and Math) if they compensate with scores higher than 65 on other exams and meet district attendance and course requirements (get course credit)
   - English and Math exam scores must be $\geq$ 55

5. **Local Diploma via Superintendent's Determination**
   ●Student must be classified and possess a current IEP
   ●Student must participate in 5 Regents examinations (ELA, Math, Social Studies ((2)), Science) without achieving a passing score
   ●Student must have passed course associated with Regents exam (>65 in course) and earned the necessary minimum of 22 total units of credit aligned with New York State Local Diploma requirements
   ●Student must have completed the requirements for the Career Development and Occupational Studies Commencement Credential (CDOS) as explained in item number 6 below:

6. **Career Development and Occupational Studies Commencement Credential (CDOS)**
   Only for Students with Disabilities to:
   A. Supplement diploma or
   B. Serve as exiting credential for students unable to earn a high school diploma
   - Must provide opportunities to earn regular high school diploma and access to general education
   - Develop and annually review career plan
   - Career-related coursework and WBL experiences
     At least two (2) units of credits (**216 hours; must include minimum 54 hours of WBL**)
   - Employability profile documenting attainment of commencement level knowledge and skills of the CDOS standard

7. **Credentials (Not High School Diplomas),** Skills and Achievement Commencement Credential
   - NYSAA eligible and Assessed
   - Attended 12 years excluding K or end of year attains 21
   - CDOS learning standards
     Please speak to your School Counselor

NAME_____ GRADE_____ COUNSELOR_____

Miller Place High School

GRADUATION CHECKLIST

REQUIRED UNITS OF CREDIT	English		**4**				English 12	
							AP English 12	
	Social Studies		**4**	Global 9	Global 10	US History	Government (.5)	Economics (.5)
	Mathematics		**3**					
	Science (*at least 2 lab courses*)		**3**					
	World Language		**1**					
	Health		**.5**					
	Music/Art		**1**					
	Physical Education		**2**	(.5)	(.5)	(.5)	(.5)	
	Computer Applications Course		**.5**					
	Total Core		***19.5***					
ELECTIVE UNITS OF CREDIT	***Elective Option #1***	World Language	**2**					
	Elective Option #2	Art/Music	**5**					
	Elective Option #3	Business/Vocational	**5**					
	Total Required (minimum)		***22***					

Examinations

TESTING REQUIREMENTS	Comprehensive English Regent Examination	**≥ 65**		World Language Checkpoint "A" Examination	**>65**	
	Algebra Regent Examination	**≥ 65**		World Language Checkpoint "B" Examination	**≥ 65**	
	Geometry Regent Examination	**≥ 65**		**LOCAL DIPLOMA**		
	Algebra II Regent Examination	**≥ 65**		Foreign Language Exempt (Y/N)		
	Global History & Geography Regent Examination	**≥ 65**		Low Pass Option?		
	US History & Government Regent Examination	**≥ 65**		Compensatory Option?		
	Science Regents Examination	**≥ 65**		Determination?		
	2nd Science Regent Examination	**≥ 65**		Credential?		
	3rd Science Regent Examination	**≥ 65**		Mastery in Math/Science/Both?		

Course Selection Form for the 2026-27 School Year
For 9th Grade Entering 10th Grade

NAME: _____ STUDENT ID#: _____

REQUIRED ENGLISH
ENG110 English 10R
OR
ENG210 English 10H

REQUIRED SOCIAL STUDIES
SS110 Global History & Geography II
OR
SS310 Advanced Placement World History

REQUIRED PHYSICAL EDUCATION
PE113F Phys. Ed. (*Fall Semester*) ***AND***
PE113S Phys. Ed. (*Spring Semester*)

SCIENCE (*Add "L" to code for Lab)*
SC106 Earth & Space Science (SC106L Lab)
SC107 Life Science: Biology (SC107L Lab)
SC107H Life Science: Biology Honors (SC 107HL Lab)
SC112 Physical Science: Chemistry (SC110L Lab)
SC112H Physical Science: Chemistry Hon (SC110LH Lab)
SC110G General Chemistry (SC110G Lab)

MATH
MATH108 Algebra 1 w/lab
MATH109A Applied Geometry
MATH120 Geometry w/lab
MATH109H Geometry Honors
MATH130 Algebra 2 w/lab
MATH 110H Algebra 2 Honors

WORLD LANGUAGES
LOTE113 Spanish III
LOTE133 Italian III

REQUIRED HEALTH
HE111A Health

ART
UA109 Studio in Art
UA110 Drawing & Painting
UA113 Sculpture
UA210 Drawing & Painting II
UA920S Fashion Design: Inspiration to Runway (*Sem*)
UA910 Computer Generated Art (*Semester*)
UA915S Digital Photography (*Semester*)

BUSINESS
BU101 Introduction to Accounting
BU210 Introduction to Business & Finance
BU214 Sports Marketing (*Semester)*
BU512 Wall Street Investments (*Semester)*

TECHNOLOGY
UA809 Design & Drawing for Production
UA909 Computer Aided Design (CAD)
UA815 Principles of Engineering

MUSIC
MU001 Concert Chorus
MU002 Concert Band
MU003 Orchestra
MU101 Select Chorus
MU102 Symphonic Band
MU303 Vocal Jazz Ensemble
MU304 Instrumental Jazz Ensemble

OTHER ELECTIVES
ENG000 Today's Writer (Alt Day)
ENG514S Public Speaking (*Semester*)
ENG515S Journalism (*Semester*)
SS513S Criminal Justice (*Semester*)
SS514S Psychology (*Semester*)
SS524S Sociology (*Semester*)
SS534 Long Island Past, Present and Future
SS535S Sports History (Semester)
SS317 Advanced Placement Human Geography

MISCELLANEOUS
LUNCH Lunch
NOLUNCH No Lunch

AP CAPSTONE PROGRAM
CA101 AP Capstone Seminar

Courses are only offered if a sufficient number of students register for the course. Some courses listed may not be given if registration is too low. There are additional administrative reasons that a course may not be offered.

Course Selection Form for the 2026-27 School Year
For 10th Grade Entering 11th Grade

NAME: _____ STUDENT ID#: _____

REQUIRED ENGLISH
ENG111 English 11R
OR
ENG311 English 11AP – Language & Composition

REQUIRED SOCIAL STUDIES
SS111 United States History & Government
OR
SS311 Advanced Placement American History

REQUIRED PHYSICAL EDUCATION
PE113F Phys. Ed. (Fall Semester) ***AND***
PE113S Phys. Ed. (Spring Semester)

SCIENCE (***Add "L" to code for Lab)***
SC106 Earth and Space Science (SC106L Lab)
SC107 Life Science: Biology (SC107L Lab)
SC107H Life Science: Biology Honors (SC107HL Lab)
SC112 Physical Science: Chemistry (SC112L Lab)
SC112H Physical Science: Chemistry Honors (SC112LH Lab)
SC110G General Chemistry (SC 110GL Lab)
SC113 Physical Science: Physics (SC113L Lab)
SC309 Advanced Placement Biology
SC310 Advanced Placement Chemistry
SC311 Advanced Placement Physics 1
SC501S Marine Science (*Semester*)
SC502S Astronomy (*Semester*)
SC511S Forensic Science (*Semester*)
SC512S Human Anatomy & Physiology *(Semester)*
SC521 College Forensics
SC534 Scientific Computing
SC560 Future Medical Professionals
SS565S Long Island Environmental Science (Semester)

MATH
MATH109A Applied Geometry
MATH120 Geometry w/lab
MATH109CCH Geometry Honors
MATH111 Algebra and Statistics
MATH130 Algebra 2 w/lab
MATH110CCH Algebra 2 Honors
MATH114 Intermediate Algebra
MATH115 Pre-Calculus
MATH211 Pre-Calculus Honors
MATH312 Advanced Placement Statistics
MATH915 Explorations in Data Science
MATH916 Project Math, Everyday Math Applications
MATH917 Math in Strategy & Storytelling: Game Theory

WORLD LANGUAGES
LOTE113 Spanish III
LOTE133 Italian III
LOTE214 Spanish IV
LOTE214H Spanish IV Honors
LOTE234 Italian IV
LOTE234H Italian IV Honors

MISCELLANEOUS
LUNCH LUNCH
NOLUNCH No Lunch

TECHNOLOGY
UA809 Design & Drawing for Production
UA909 Computer Aided Design (CAD)
UA815 Principles of Engineering

BUSINESS
BU101 Introduction to Accounting
BU201 College Accounting
BU210 Introduction to Business & Finance
BU214 Sports Marketing (*Semester)*
BU512 Wall Street Investments *(Semester)*
BU216 College Business Law
BU110 College Computer Applications
BU520 Virtual Enterprise

ART
UA109 Studio in Art
UA110 Drawing & Painting
UA114 Sculpting
UA210 Drawing & Painting II
UA315 Advanced Placement Studio Art
UA316 Advanced Placement Drawing
UA920S Fashion Design: Inspiration to Runway (*Semester*)
UA910 Computer Generated Art (*Semester*)
UA915S Digital Photography (*Semester*)

MUSIC
MU001 Concert Chorus
MU002 Concert Band
MU003 Orchestra
MU101 Select Chorus
MU102 Symphonic Band
MU303 Vocal Jazz Ensemble
MU304 Instrumental Jazz Ensemble
MU313 AP Music Theory

OTHER ELECTIVES
BOCES BOCES (*1/2 day*)
ENG514S Public Speaking (*Semester)*
ENG515S Journalism (*Semester)*
HE215S Teenage Issues & Responsibilities
HE220S Sports Medicine I (*Semester)*
HE221S Sports Medicine II (*Spring Semester*)
SS316 Advanced Placement Psychology
SS513S Criminal Justice (*Semester*)
SS514S Psychology (*Semester*)
SS524S Sociology (*Semester*)
SS534 Long Island Past, Present, Future
SS535S Sports History *(Semester)*
SS317 Advanced Placement Human Geography

AP CAPSTONE PROGRAM
CA101 AP Capstone Seminar
CA102 AP Capstone Research

Courses are only offered if a sufficient number of students register for the course. Some courses listed may not be given if registration is too low. There are additional administrative reasons that a course may not be offered.

Course Selection Form for the 2026-27 School Year
11th Grade Entering 12th Grade

NAME: _____ STUDENT ID#: _____

REQUIRED ENGLISH

ENG312	English 12AP – Literature & Composition
OR	
ENG315S	College Reading, College Writing (Fall)
ENG712S	Creative Writing (Fall)
ENG318S	Science Fic, Fant & Lit of the Super. (Spring)
ENG319S	Poetry of Rock and Roll (Spring)
ENG316S	Contemporary Issues in Literature (Spring)

REQUIRED SOCIAL STUDIES

SS315	Advanced Placement Government
OR	
SS112S	Economics (*Semester*) ***AND***
SS212S	Government (*Semester*)

REQUIRED PHYSICAL EDUCATION

PE113F	Phys. Ed. (*Fall Semester*) ***AND***
PE113S	Phys. Ed. (*Spring Semester*)

SCIENCE (*Add "L" to code for Lab)*

SC112	Physical Science: Chemistry (SC112L Lab)
SC112H	Physical Science: Chemistry Honors (SC112LH Lab)
SC110G	General Chemistry (SC110GL Lab)
SC113	Physical Science: Physics (SC113L Lab)
SC309	Advanced Placement Biology
SC310	Advanced Placement Chemistry
SC311	Advanced Placement Physics 1
SC501S	Marine Science (Semester)
SC502S	Astronomy (Semester)
SC511S	Forensic Science (Semester)
SC512S	Human Anatomy & Physiology (Semester)
SC521	College Forensics
SC534	Scientific Computing
SC560	Future Medical Professionals
SS565S	Long Island Environmental Science (Semester)

MATH

MATH111	Algebra and Statistics
MATH110	Algebra 2 w/lab
MATH110H	Algebra 2 Honors
MATH114	Intermediate Algebra
MATH115	Pre-Calculus
MATH211	Pre-Calculus Honors
MATH116	Calculus
MATH312	Advanced Placement Statistics
MATH322	Advanced Placement Calculus AB
MATH323	Advanced Placement Calculus BC
MATH915	Explorations in Data Science
MATH916	Project Math: Everyday Math Applications
MATH917	Math in Strategy & Storytelling: Game Theory/Math Media

TECHNOLOGY

UA809	Design & Drawing for Production
UA909	Computer Aided Design (CAD)
UA815	Principles of Engineering

MISCELLANEOUS

ARRIVE	Late Arrival
DISMISS	Early Dismissal
LUNCH	Lunch
NO LUNCH	No Lunch

WORLD LANGUAGES

LOTE113	Spanish III
LOTE133	Italian III
LOTE214	Spanish IV
LOTE214H	Spanish IV Honors
LOTE215	Spanish V
LOTE215H	Spanish V Honors
LOTE234	Italian IV
LOTE234H	Italian IV Honors
LOTE235	Italian V
LOTE235H	Italian V Honors
LOTE315	Advanced Placement Spanish
LOTE335	Advanced Placement Italian

BUSINESS

BU101	Introduction to Accounting
BU201	College Accounting
BU210	Introduction to Business & Finance
BU214	Sports Marketing (*Semester)*
BU512	Wall Street Investments *(Semester)*
BU110	College Computer Applications
BU216	College Business Law
BU520	Virtual Enterprise

ART

UA109	Studio in Art
UA110	Drawing & Painting
UA114	Sculpting
UA210	Drawing & Painting II
US315	Advanced Placement Studio Art
UA316	Advanced Placement Drawing
UA920S	Fashion Design: Inspiration to Runway (*Semester)*
UA910	Computer Generated Art (*Semester)*
UA915S	Digital Photography (*Semester)*

MUSIC

MU001	Concert Chorus
MU002	Concert Band
MU003	Orchestra
MU101	Select Chorus
MU102	Symphonic Band
MU303	Vocal Jazz Ensemble
MU304	Instrumental Jazz Ensemble
MU313	AP Music Theory

OTHER ELECTIVES

BOCES	BOCES *(1/2 day)*
ENG514S	Public Speaking (Semester)
ENG515S	Journalism (Semester)
ENG912	Film Study
HE215S	Teenage Issues & Responsibilities (*Semester)*
HE220S	Sports Medicine I (*Semester)*
HE221S	Sports Medicine II (*Semester)*
SS316	Advanced Placement Psychology
SS513S	Criminal Justice (*Semester)*
SS514S	Psychology (*Semester)*
SS524S	Sociology *(Semester)*
SS534	Long Island, Past, Present, Future
SS535S	Sports History (*Semester)*
SS317	Advanced Placement Human Geography

AP CAPSTONE PROGRAM

CA102	AP Capstone Research

Courses are only offered if a sufficient number of students register for the course. Some courses listed may not be given if registration is too low. There are additional administrative reasons that a course may not be offered.

Art

STUDIO IN ART

1 Credit **Grades 9 – 12**

Studio in Art is an introductory level art class that explores art techniques, concepts and art history. Through a series of creative projects, the class will investigate and master the elements and principles of art and design. Projects will include experiences in representation and abstraction. The class will utilize materials such as graphite pencil, color pencils, oil pastels, collage, ink pen, watercolor and acrylic paints. Subject matter will include still life from direct observation, landscape from photography, surrealism, linear perspective and different forms of abstract design. Visual presentations and research assignments may also be an integral part of the course. This course is the prerequisite for all other art classes and satisfies New York State requirements for graduation.

DRAWING & PAINTING I

1 Credit **Grades 10 – 12**

Prerequisite: Studio in Art

Drawing and Painting I is an intermediate level art class in drawing and painting techniques. Through a series of creative projects, the class will investigate and master various drawing/painting techniques and media in various kinds of subject matter. Projects will include both representational and abstract design formats. The class will utilize materials such as graphite pencil, charcoal, color pencil, ink pen, watercolor, acrylic and oil paints. Subject matter will include still life drawing/painting, landscape from photography, pattern design, wildlife illustration, optical art, and photo-realism. Visual presentations of art history and concepts will also be an integral part of the course.

DRAWING & PAINTING II

Prerequisite: Drawing & Painting I

1 Credit **Grades 10 – 12**

Drawing and Painting II is an advanced level art class in drawing and painting techniques. Students complete creative projects that build on the techniques learned in Drawing and Painting I. Projects will include both representational and abstract design formats. The class will utilize materials such as graphite pencil, charcoal, color pencil, ink pen, watercolor, and acrylic/oil paints in a larger more advanced format than in Drawing and Painting I. Subject matter will include still life drawing/painting from direct observation, local landscape painting from photography, geometric abstract painting, abstract expressionism, photo-realism, and advertising/scientific illustration. Visual presentations of professional artwork, art history and concepts will also be an integral part of the course.

SCULPTURE

1 Credit **Grades 10 – 12**

Prerequisite: Studio in Art

This class is an intermediate level art class in basic three dimensional art techniques, materials and subject matter. Students explore a series of creative three dimensional art projects that investigate and master various sculptural/design materials focusing primarily on ceramics Projects may include clay masks, functional ceramic forms, cardboard/plaster sculpture, architectural models, portrait sculpture in clay, wire/plaster sculpture, ceramic bas-relief and found object assemblage. Visual presentations of art history and concepts will also be an integral part of the course.

DIGITAL PHOTOGRAPHY

1/2 Credit **Grades 10 – 12**

This class is an introductory level course in digital photography and Adobe Photoshop CS6 techniques. Through a series of creative photo imaging assignments, the class will investigate and master various camera functions and Photoshop tools and processes. Techniques in photo compositing, selecting, photo manipulation, retouching, digital painting and typography will all be explored in depth. Projects will mirror the interests and topics of current film making and advertising industries. Students will also learn about the art of photography and important photographers in art history. Visual presentations of professional photographers and designers will also be an integral part of the course.

ADVANCED PLACEMENT STUDIO ART (2D – Design Portfolio)

1 Credit Grades 11 – 12

Prerequisite: Studio in Art, Recommended Drawing & Paining I/II)

This course has been designed to complete the requirements of the College Board AP Two-Dimensional Design Portfolio Exam. All class content is structured to meet those requirements and mirrors a typical Two-Dimensional Design course at the college level. Through a series of creative projects that are concept based as well as personal in stylistic interpretation, students will produce a volume of quality work that demonstrates their understanding of the use of the Elements of Art and the Principles of Design. Effective design may be produced in either representational or abstract formats. Students complete a series of projects based on one underlying theme throughout the school year.

ADVANCED PLACEMENT STUDIO ART (Drawing Portfolio)

1 Credit Grades 11 – 12

Prerequisite: Studio in Art

This course has been designed to complete the requirements of the College Board AP Drawing Portfolio Exam. All class content is structured to meet those requirements and mirrors a typical Drawing I course at the college level. Through a series of creative projects that are traditional drawing/painting technique based, students will produce a volume of quality work that demonstrates their drawing/painting mastery. A wide variety of techniques and materials are utilized. Students complete a series of projects based on one underlying theme throughout the school year.

COMPUTER GENERATED ART

1/2 Credit Grades 10 – 12

Prerequisite: Studio in Art

This class is an introductory level course in computer generated art and Adobe Photoshop CS6 painting techniques. Through a series of creative digital illustration assignments, the class will investigate and master various Photoshop painting tools and processes. Techniques in traditional drawing scanning/digital manipulation, digital painting, digital overlay, digital story boards and typography will all be explored in depth. Basic compositing for digital artists will also be utilized. Projects will mirror the interests and topics of current film making and advertising industries. Students will also learn about the art of digital illustration and painting through investigation of professional level artists and designers.

FASHION DESIGN: INSPIRATION TO RUNWAY

1/2 Credit Grades 10 – 12

Prerequisite: Studio in Art

This course is an introduction to the exciting world of fashion design. Students will explore the history of fashion, develop their design skills, and learn practical techniques for garment creation and alteration. The course will culminate in a final project where students will design, construct, and present a garment of their own creation. Students will gain an appreciation for the history and artistry of fashion while learning practical skills that can be applied in future endeavors, regardless of their chosen career path. Many students can utilize these skills on set for the high school production or as they funnel into local art schools such as the Fashion Institute of Technology. This curriculum can be adapted to fit within a semester or year-long format. The final project can be further customized to allow for student choice in garment complexity or theme, keeping student interest and creativity at the forefront.

Business

COMPUTER INTERNET LITERACY

1/2 Credit (Alt Day) **Grade 9**
Graduation Requirement

Computer/Internet Literacy is a graduation requirement which will assist students with the transition to high school and prepare them for college and future employment. This course requires students to learn, demonstrate, and produce standard professional documents while learning and mastering computer technology essentials. Computer/Internet Literacy course is designed to provide students with the foundation necessary to utilize word processing and spreadsheet concepts as life-long learners. With the constant changes in technology and the workforce this course allows students to become proficient in various software applications while emphasizing the importance of career exploration. Computer Internet Literacy course is designed to provide students with the foundation necessary to utilize word processing, spreadsheet and presentation software in their academic and personal life. .Students will learn how to avoid plagiarism through learning how to properly format an MLA Research paper with parenthetical references while reinforcing proper writing techniques (ELA). This course educates students on ethical issues in technology. Students are provided with character education by exploring the concepts of tolerance, respect for others and proper conduct on computers which directly supports the Dignity Act.

INTRODUCTION TO BUSINESS & FINANCE

1 Credit **Grades 9-12**

Discover the exciting world of business and what it can offer you. This course will provide students with the opportunity to learn about our economy, build strong money habits and avoid mistakes that can lead to lifelong money struggles while enhancing their financial literacy knowledge. Some of the skills the students will discover are how to apply for a job, budget their finances through savings, reconcile a checkbook, prepare a tax return, how to manage credit, and understand investment opportunities. This course will be enhanced with "real world" applications and questions. Students will gain the knowledge and understanding of the topics that are used in the daily activities of a consumer, business owner, worker and citizen. The question "When will I use this?" will be answered constantly making the class come to life and appealing to all students.

INTRODUCTION TO ACCOUNTING

1 Credit **Grades 10-12**

Accounting is the "language of business" and not just for those who want to be accountants! Have you ever thought about starting your own business? Learn the basics of understanding business financials. This one year course is designed to develop basic accounting skills and competencies that stresses the principles and procedures needed to build a beginning foundation in accounting fundamentals. Students will process transactions through the entire accounting cycle in a service and merchandising business as well as learn about careers in the accounting field through guest speakers. The course will assist students in becoming critical thinkers and problem solvers. This is one of the Top 10 College Majors and one of the Top 10 Careers in Demand.

COLLEGE ACCOUNTING

1 Credit **Grades 11 – 12**
College Credits (optional tuition fee – cost TBD)

The major objective of this course is to teach students the dual responsibilities of modern accounting and this "Language of Business." Students will develop a sound understanding of the financial information, how the information is processed, and results of decisions made by management. The accounting cycle is enforced as well as advanced topics such as: notes payable, notes receivable, write offs, stocks and inventory methods to provide economic data for profit making business entities. It is suggested for students who are college bound, or considering any major in the Business field in college. This course is offered in conjunction with SUNY Farmingdale.

SPORTS AND ENTERTAINMENT MARKETING

1/2 Credit **Grades 10-12**

Sports' marketing is one of the fastest growing college majors and industries of the future. Students will design and create their own franchise to learn the basics of marketing a professional sports team. They will learn about the impact professional sports teams have on a city by exploring stadium design, merchandising, advertising, and sponsorships. Students will also explore the influence entertainment has on today's society. By exploring the music, movie, and television industries students will learn how today's society is inundated with advertisements that have a major impact on what we wear, buy and sell.

WALL STREET INVESTMENTS

1/2 Credit **Grades 10-12**

This introductory course presents an overview of the financial markets. Students will explore how the markets work and how they can be used to their financial advantage. Students will participate in an investment simulation where they will create and manage "stock portfolios". This course is highly recommended for those studying business or anyone with an interest in investing or money management.

COLLEGE BUSINESS LAW

1 Credit **Grades 11 – 12**

College Credits (optional tuition fee – cost TBD)

Business Law provides students with a working knowledge and understanding of the laws that influence businesses and consumers. Students will learn how the law affects them in important areas such as: buying a car, renting or buying a home, employment, banking, insurance, etc. The topics presented reflect real-life situations that will have a major impact on students' lives now and in the future. All students benefit from this course especially those pursuing business beyond high school. This course is offered in conjunction with Long Island University..

COLLEGE COMPUTER APPLICATIONS

1 Credit **Grades 11-12**

College Credit (optional tuition fee – cost TBD)

This is an ideal course for the college bound student looking to advance their computer skills and prepare for their future at college or in the workforce. Students who have diverse computer software skills are more competitive in today's highly technical world. This course will teach students how to utilize basic and advanced features of various word processing, spreadsheet, database, and presentation software. In addition, basic coding skills will be introduced. Students will examine their personal interests and investigate career possibilities throughout the course. Projects and simulations will be utilized and students will "learn by doing".

VIRTUAL ENTERPRISE

1 Credit **Grades 11-12**

College Credit (optional tuition fee – cost TBD)

Prerequisite: One Business courses in addition to Computer Internet Literacy

Do you want to learn how to run a business? If so, this is the course for you! This course is a business experience that turns the traditional classroom into a vibrant real-world office. Students create and manage a virtual business from the ground up selling their products/services to other virtual firms around the world in over 40 countries. Students interview to work in different departments of the business based on their strengths, passions and potential career paths, typically Management, Accounting/Finance, Sales, Marketing, Human Resources and Web Design. This class will transform you, a high school student, into an independent-thinking business professional. Virtual Enterprise students will participate in trade shows, showcasing their professionalism, teamwork, presentation skills, business knowledge and ideas. This course is offered in conjunction with SUNY Farmingdale.

English

ENGLISH 9

1 Credit **Grade 9**
Prerequisite: English 8
NCAA
Students will read literary works that explore essential and guided questions within this theme, i.e., historical novels and plays, essays, articles, poems, and short stories. Students will create writing assessments based upon literature, nonfiction, and texts they will study throughout the course. The class also focuses on the Task III English Regents essay and students are introduced to the five-paragraph argumentative essay. The course will conclude with a departmental final examination.

ENGLISH 9 HONORS

1 Credit **Grade 9**
Prerequisite: Placement based on achievement in English 8 (course average of 92 or higher) or Departmental approval
NCAA
A more critical, in-depth study of all genres covered in English 9 Regents course content. In addition, students will also have two independent reading projects and advanced level text choices in all genres, The course will conclude with a departmental final examination.

ENGLISH 10

1 Credit **Grade 10**
Prerequisite: English 9
NCAA
Attention will continue to be focused on competence in reading, written expression and vocabulary development. Students will develop a sustained and logical point of view through their writing, speaking and listening skills embedded throughout the course work. The course will also focus on identity and individualism as the foundation of literature and life. Students will read literary works that explore the paradoxical nature of war and peace, love and hate, group and individual, gain and loss, hypocrisy and integrity, and superiority and inferiority. The genres of primary focus in this year are memoirs, articles, essays, speeches, and 20th century novels, short stories, and poems. The course will conclude with a departmental final exam.

ENGLISH 10 HONORS

1 Credit **Grade 10**
Prerequisite: 85 or higher average in English 9 Honors, 90 or higher average in English 9, or Departmental approval
NCAA
A more critical, in-depth study of all genres covered in English 10 Regents course content. In addition, preparation for the English Regents examination will continue with the introduction of tasks I, II, and II (Reading Comprehension, Argument, and Text Analysis Response), a year-long independent study project, and advanced level text choices in all genres. Summer assignment required. The course will conclude with a departmental final examination.

ENGLISH 11

1 Credit **Grade 11**
Prerequisite: English 10 or 10H
NCAA
Students will study the American experience through the lens of American literature and popular culture. Students will examine literary works that explore the challenges and accomplishments chronicled as the American experience. Within this context, and in addition to whole class shared texts in all genres, students will review skills and strategies needed for the New York State English Language Arts Regents Examination: Critical Reading and Comprehension, Argument, and Thematic Essay. The English Regents Examination is given to all students in June.

ENGLISH 11AP – LANGUAGE & COMPOSITION

1 Credit **Grade 11**

Prerequisite: Average of 85 or higher in English 10H, 90 or higher in English 10, or Departmental approval

NCAA

As stated in The College Board's description, "The purpose of the AP English Language and Composition course is to enable students to read complex texts with understanding and to write prose that is rich enough and complex enough for mature readers." This course is designed for students who have exemplary performance in English, have demonstrated mastery level work and want to experience a class on par with a college level course. They will analyze content of text and author's purpose in creating text, and how to determine the influence that an author's phrasing, word choice, rhetorical devices, and conventions have on the reader. They will use this study to enhance their own writing skills by applying the strategies of their studied authors. This course includes a required final paper in preparation for the Advanced Placement exam. Students will take both the English Language Arts Regents Examination and the Advanced Placement Language and Composition Exam. Summer assignment required. Students will take the Advanced Placement Language and Composition exam in May, the English Language Arts Regents examination in June.

ENGLISH 12 COURSE OPTIONS:

ENGLISH 12AP – LITERATURE & COMPOSITION

1 Credit **Grade 12**

Prerequisite: Average of 85 or higher in English 11AP, 90 or higher average in English 11, or Departmental approval

NCAA

This course is designed for students who have exemplary performance in English, have demonstrated mastery level work. This course has two emphases: (1) British and Western Literature, and (2) Expository Writing. They will use this study to enhance their own writing skills by applying the strategies of their studied authors to their own literary criticism and creative writing. As stated in The College Board's description, will be "of recognized literary merit." Students will learn how to consider a work's structure, style, and themes, as well as the use of figurative language, imagery, symbolism, and tone. Students will also learn to "consider the social and historical values [the work] reflects and embodies." Summer assignment required. The course includes a required final paper in preparation for the Advanced Placement exam.

OR

MUST TAKE TWO OF THE FOLLOWING COURSES TO EARN ENGLISH 12 CREDIT (Must choose one Fall semester and one Spring semester course)

COLLEGE READING, COLLEGE WRITING (Fall Semester)

1/2 Credit – Semester **Grade 12**

Prerequisites: English 11 or 11 AP

NCAA

College Reading, College Writing focuses on college entrance requirements and on the skills necessary for success in college and careers. The focus of this course is on developing the following skills: the exploratory essay, the research essay, and college-level critical analysis of texts. Students will also read additional classic novels and short stories of various topics to prepare themselves for the rigor of college-level humanities expectations. Students will be evaluated on produced writing, homework, quizzes, and tests.

CREATIVE WRITING (Fall Semester)

1/2 Credit - Semester

Prerequisites: English 11 or 11 AP

NCAA

This course is for students who seek the opportunity to write stories and poems. This course offers students the chance to exercise their imaginations, improve their writing skills, and develop their writing techniques, as well as a critical understanding of the use of the written word. Students will learn to work with others as a part of a writing community and will be expected to share and workshop their creations with classmates. In addition, students are strongly encouraged to submit their work for publication and competitive judging. Students will also study archetypes of the forms of writing their are looking to create as supplements and guides of structure and purpose. Students will be evaluated on homework, classwork, the process of writing, and a portfolio.

SCIENCE FICTION, FANTASY, and LITERATURE OF THE SUPERNATURAL (Spring Semester)

1/2 Credit – Semester **Grade 12**
Prerequisites: English 11 or 11 AP
NCAA

This senior elective survey course will explore the worlds of science fiction, high and dark fantasy, and literature of the supernatural. Students will read and analyze literary works covering topics such as the future, technology, science, "other worlds", paranormal life forms and occurrences, aberrant psychology and imaginary societies-utopian and dystopian. This course will critically examine readings from a wide variety of authors of science fiction, horror, and fantasy. Students will write rhetorical analysis essays and develop their own stories through the Written Out Loud program where they will become published authors.

THE POETRY OF ROCK AND ROLL (Spring Semester)

1/2 Credit – Semester **Grade 12**
Prerequisites: English 11 or 11 AP
NCAA

This semester course is designed for the student who has a strong interest in poetry. Students will study rock and roll as a poetic form, emphasizing the techniques and technical aspects of canonical songwriters, musicians, and bands. Coursework will include analyzing lyrics from Rock and Roll's birth to its evolution through the present day, understanding the development of themes, the effects of major cultural revolutions and historical events of the time. An exploration of the connections between traditional poets and their influences on musicians in later ages will help students to further explore the allusions and other poetic devices present in the music and poetry of the modern day. Students will be evaluated on tests, projects, expositive writing, and performances.

CONTEMPORARY ISSUES IN LITERATURE: EMPATHY AND HUMANITY (Spring Semester)

1/2 Credit – Semester **Grade 12**
Prerequisites: English 11 or 11 AP
NCAA

This semester course focuses on relevant human experiences and issues across cultures. The course will help students become stronger critical thinkers and writers through their connections to and discussions of various texts. Students will become aware of interactions among a writer's purpose, audience, expectations, subjects, and experiences. Students will be evaluated on journals, quizzes, essays, and collaborative projects.

English Electives (Do Not Satisfy English 12 Requirement)

TODAY'S WRITER

½ Credit (Alt Day) **Grades 9-10**

The class is designed to provide the writer with a strong writing foundation across all content areas. The students will take part in mini-workshops which will improve their sentence structure, vocabulary and overall writing. Once this foundation has been established, the students will turn their focus to writing for different purposes; short responses, DBQs, persuasive, and analytical writing.

FILM STUDY (Full Year)

1 Credit **Grade 12**

This course will introduce senior students to the art of the film. They will learn to observe carefully and independently. They will analyze films with the goal of being able to judge between poor, average, good, and great films. To reach that goal, students will evaluate all films orally and in writing. ***Evaluative*** *papers as well as a research paper will be required.*

PUBLIC SPEAKING

½ Credit **Grades 10-12**

NCAA

The objective of this course is to develop competency in oral presentations. The emphasis of the course will focus on oral reading, panel discussions, extemporaneous and prepared presentations. The course in Public Speaking will also include research and organization of researched materials. Public Speaking does not satisfy the four-year English requirement and is taken as an elective.

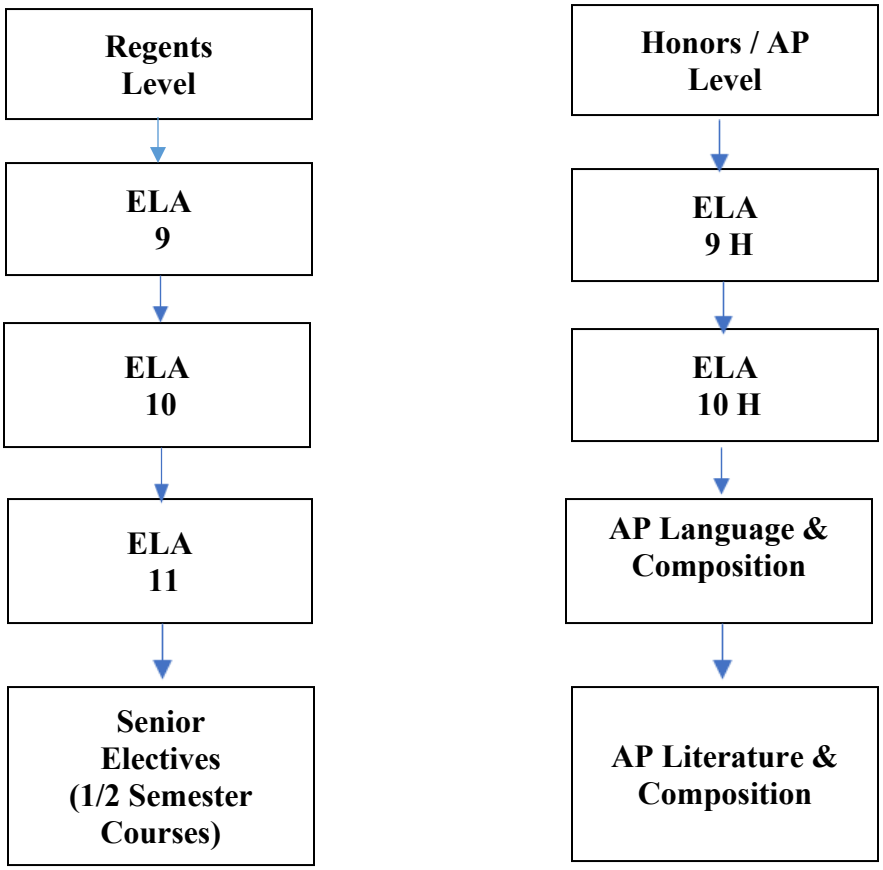
JOURNALISM

½ Credit **Grades 10 -12**

NCAA

This course is designed to provide an in depth study of all the facets of journalistic writing including news writing, feature writing, editorial writing, sports writing, columns and reviews. Mechanical operations, such as photography, production and layout, will also be covered. This course does not satisfy the requirements of the 4-year English sequence and will serve as a pre-requisite to the Publications Production course.

English Department Sequence



Senior English Electives Which Satisfy English 12 Requirements

College Reading, College Writing (Fall Semester)

Creative Writing (Fall Semester)

Science Fiction, Fantasy, & Literature of the Supernatural (Spring Semester)

The Poetry of Rock n Roll (Spring Semester)

Contemporary Issues in Literature: Empathy & Humanity (Spring Semester)

English Electives

Todays' Writer (Alt Day) (9th / 10th)

Film Study (12th)

Public Speaking (10th-12th)

Journalism (10th-12th)

* Students may request during course selection to move into, or out of Honors/AP courses based on meeting the prerequisite requirements.

Advanced Placement Capstone Program

AP Capstone™ is a diploma program based on two yearlong AP courses: AP Seminar and AP Research. These courses are designed to complement other AP courses that the AP Capstone student may take. Instead of teaching specific subject knowledge, AP Seminar and AP Research use an interdisciplinary approach to develop the critical thinking, research, collaboration, time management, and presentation skills students need for college-level work. The College Board developed the AP Capstone Diploma program at the request of higher education professionals, who saw a need for a systematic way for high school students to begin mastering these skills before college.

AP Capstone Seminar
1 Credit **Grades 10,11**
Prerequisites: Minimum average of 85% in previous AP/Honors course or 90% in previous regent's level course, and Departmental approval
NCAA
In this first piece of the AP Capstone experience, students develop and strengthen their analytic and inquiry skills. Students will explore two to four relevant issues chosen by the student with the support of their educator. Using an inquiry framework, students practice reading and analyzing articles and researched analysis data; foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, evidence-based decisions. Students question, research, explore, produce solutions, develop arguments, collaborate with peers, and communicate using various media. Students will take AP research after the successful completion of AP Seminar and meeting the prerequisites in their sophomore or junior year.

AP Capstone Research
1 Credit **Grades 11,12**
Prerequisites: Minimum average of 85% in AP Seminar, 85% or higher on the English Regents, Departmental approval & a summer assignment
NCAA
As required by the College Board, this second piece in the AP Capstone experience allows students to deeply explore an academic topic, problem, issue, or idea of their choosing. Students will design, plan, and implement a yearlong investigative process to address a research question. Through their inquiry, they will further the skills they acquired in the previous AP Seminar course. Students are engaged in learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. These are all imperative skills they will utilize for college and career readiness. Students will reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a portfolio project. The course will culminate in an academic paper of 4,000–5,000 words (accompanied by an exhibit, or product where applicable) and a presentation with an oral defense. As per the College Board requirement for successful completion of the AP Capstone experience.

Health

HEALTH

1/2 Credit **Grade 10**

Successful completion of this course is required for graduation.

This health course is concerned with the total life of the young adult. An individual, being a highly complex organism, has many needs in addition to physical ones, which are explored during this course. Emotional and moral health have a high degree of correlation with basic human physical needs, and an understanding of these aspects of health are vital for the complete functioning of a person in our society. Topics of study include: specific ailments and diseases; national and world health problems; alcohol abuse; sexually-transmitted disease prevention; drug abuse; AIDS; as well as specific ailments and diseases family life and sexuality. A team project is required of all students, as well as an oral presentation of their project.

TEENAGE ISSUES & RESPONSIBILITIES

1/2 Credit **Grades 11-12**

Prerequisite: Health 10

This senior high elective is offered to high school juniors and seniors. This course is designed to guide students to discover critical options that will enable them to make responsible decisions concerning personal health issues. This course will also help prepare student to be informed, caring and productive members of our global society. In addition to a comprehensive overview of Health 10, additional topics will be discussed: Substance Abuse, Mental/Emotional Health and well-being, Suicide Prevention, Eating Disorders, Sexuality, Gender Roles, and HIV/AIDS awareness as well as current issues and trends in personal and global health.

SPORTS MEDICINE AND PERFORMANCE I

½ credit Fall or Spring Semester Grades 11-12

Prerequisite: Living Environment

This senior high elective is offered to high school juniors and seniors after successful completion of the Living Environment science course. This course is designed to provide students with an introduction to sports medicine and optimizing performance. In addition to a comprehensive overview of the musculoskeletal system and common injuries associated with athletic performance, we will also cover the effects of drugs, alcohol, and performance enhancing drugs (PED) on one's athletic performance and overall health. Nutrition education for performance as well as disordered eating and eating disorders will be covered. Students will receive a two year Adult and Child CPR/AED certification through the American Red Cross.

SPORTS MEDICINE AND PERFORMANCE II

½ credit Spring Semester Grades 11-12

Prerequisite: Sports Medicine and Performance I

This senior high elective is offered to high school juniors and seniors after successful completion of Sports Medicine and Performance I. This course is designed to provide an introduction to common functions and injuries of the hip, shoulder, elbow, and wrist. Head injuries and concussion prevention are explored in detail as well as other common neurological conditions. Rehabilitation of common injuries and prevention programs will be an area of focus, as well as proper equipment fitting and sport psychology. Students will receive a two year American Red Cross First Aid certification. This certification will include Epipen and asthma inhaler training.

Mathematics

ALGEBRA 1 WITH LAB

1 credit (Lab Alternate Day)
Required: Graphing Calculator
NCAA
This Algebra course includes topics in real number sets, polynomials, linear equations, inequalities, graphing systems of equations, factoring, quadratic equations, exponential equations, functions and statistics. This course will assist students in developing skills and processes to be applied using diverse techniques to successfully solve problems in a variety of settings. Students are required to take a departmental midterm and Algebra 1 Regents examination in June.

APPLIED GEOMETRY

1 credit
Prerequisite: Algebra I
Required: Graphing Calculator
This Non-Regents course is intended for students who wish to strengthen skills prior to entering Regents Geometry. Students would take this course at the culmination of Algebra 1. Within the course, students will define the basic building blocks of Euclidean Geometry, which include: points, lines, and planes. Students will use this foundation to study relationships within geometric figures. Students will become familiar with the process of proof writing in which students will be asked to construct simple proofs, in order to generate conclusions based on specific geometric situations. Students will study transformations including: rotations, reflections, translations, and glide reflections. Students will also participate in various hands-on activities which will strengthen their understanding of many of the concepts that will be investigated. A final, cumulative exam will be given in June.

GEOMETRY WITH LAB

1 credit (Lab Alternate Day)
Prerequisite: Algebra I
Required: Graphing Calculator
NCAA
This course is the second year in the high school mathematics sequence. Reasoning and problem solving skills are developed for topics such as congruence and similarity and applied to the study of lines, triangles, quadrilaterals, and circles. Length, perimeter, area, circumference, surface area, and volume are used to solve real-world problems. Students will take the Geometry Regent Examination in June. Satisfactory achievement on the Geometry Regent Examination is the second of three Regents examinations required for an Advanced Regents Diploma.

GEOMETRY HONORS

1 credit
Prerequisite: A Final Course Average of 85 or above in Algebra I Honors or a 90 or above in Algebra I or Departmental approval
Suggested: 85% or better on Algebra I Regents exam
Required: Graphing Calculator
NCAA
This course is the second year in the high school honors mathematics sequence. This course is designed to challenge our superior students as well as to prepare them for the rigorous college level work in our twelfth year Advanced Placement Calculus course. Reasoning and problem solving skills are developed for topics such as congruence and similarity and applied to the study of lines, triangles, quadrilaterals, and circles. Length, perimeter, area, circumference, surface area, and volume are used to solve real-world problems. Building on their work with linear, quadratic and exponential functions in Algebra I, to reinforce their understanding of these functions, students begin to use a variety of tools and methods to create geometric models and ideas to solve problems in geometry. Students will take the Geometry Regent. Satisfactory achievement on the Geometry Regent Examination is the second of three Regents examinations required for an Advanced Regents Diploma.

ALGEBRA AND STATISTICS

1 credit
Prerequisite: Geometry
Required: Graphing Calculator
NCAA

This non-regent course is intended for students who wish to strengthen their skills prior to the Algebra II course. Students would take this course at the culmination of Geometry. The course will include operations with polynomials, quadratic functions with real and complex roots, operations with rational expressions, solving and applying equations to solve problems, and graphs of functions to model real world phenomena. Students will participate in various hands-on activities which will strengthen their understanding of various concepts that they will be exposed to. There will be a cumulative final exam in June.

ALGEBRA 2 WITH LAB

1 credit (Lab Alternate Day)
Prerequisite: Algebra 1 and Geometry
Required: Graphing Calculator
NCAA

The purpose of this course is to satisfy the Algebra II requirement of the NYS Next Generation Mathematics Learning Standards. This upper level course fits into an overall program of mathematics studies with a rigorous academic core by extending what students have learned in the introductory-level mathematics courses as well as introducing more advanced topics. These advanced topics include linear equations, inequalities, and systems, quadratic, polynomial, exponential, logarithmic, and Trigonometric functions, equations, and expressions. Students will take the New York State Algebra II Regents Examination in June. Satisfactory achievement on the Algebra II Regents Examination is the third of three required for an Advanced Regents Diploma.

ALGEBRA 2 HONORS

1 credit
Prerequisite: A Final Course Average of 85 or above in Geometry Honors or a 90 or above in Geometry or Departmental approval
Suggested: 85% or better on Geometry Regent exam
Required: Graphing Calculator
NCAA

This is the third course in the high school honors mathematics sequence. Algebra 2 will satisfy the Algebra II NYS Next Generation Mathematics Learning Standards as well as explore several extension standards. This rapid paced course will challenge our superior students as it prepares them for the rigorous college level work in the Advanced Placement Calculus course. This upper level course fits into an overall program of mathematics studies with a meticulous academic core by extending what students have learned in the introductory-level mathematics courses as well as introducing more advanced topics. These advanced topics include linear equations, inequalities, and systems, quadratic, polynomial, exponential, logarithmic, and Trigonometric functions, equations, and expressions. Students will take the New York State Algebra II Regents Examination in June. Satisfactory achievement on the Algebra II Regents Examination is the third of three required for an Advanced Regents Diploma.

PRE- CALCULUS HONORS

1 Credit **Grade 11**
Prerequisite: A final course average of 85 or higher in Algebra 2 Honors or 90 or above in Algebra 2, or Departmental approval
Suggested: 85% or better on Algebra 2 Regents exam
Required: Graphing Calculator
NCAA

Pre- Calculus Honors is designed to challenge our superior students as well as to prepare them for the rigorous college level work in our twelfth year Advanced Placement Calculus course. In this course, students will become aware of the importance of calculus as a framework for all higher mathematics. Functions, limits, and differential calculus, including its application, will be the focus of this course.

PRE- CALCULUS

1 Credit **Grades 11-12**

Prerequisite: Algebra 2
Suggested: 75% or better on Algebra 2 Regents exam
Required: Graphing Calculator
NCAA

This course is designed and recommended for the college bound student whose chosen major will require calculus. Such majors include the sciences, engineering, and some business programs. The primary focus of the course is functions, with a strong emphasis on algebra and analytic geometry. Students use mathematical and modeling/multiple representation to provide a means of presenting, interpreting, communicating, and connecting mathematical information and relationships.

CALCULUS

1 Credit **Grade 12**

Prerequisite: Pre-Calculus Honors or Pre-Calculus
Required: Graphing Calculator
NCAA

Calculus will begin with a review of the concept of limits and explore both the main branches of fundamental Calculus: differential and integral. The course will explore applications of both branches using polynomial, trigonometric, exponential, logarithmic and piece-wise functions. Exploring the relationship between both branches will be the theme for the second half of the course. The solving of optimization and related rate problems will be studied at length. Additionally, the area between two curves and calculating the volume of solids of revolution using integration will be the culmination of the course.

EXPLORATIONS IN DATA SCIENCE

1 Credit **Grade 11 & 12**

Prerequisite: Geometry

This data science course uses various digital platforms including Canva, Excel, Google Sheets, Codap, and Google Colab with Python coding language to work through real world applications combining aspects of statistics, computer science, technical writing and data mining. Through hands-on projects and real-world applications, students will develop critical skills in collecting, analyzing, and communicating data-driven insights. The course covers a wide range of topics, including exploring univariate and bivariate data, data collection techniques, coding in Python, and creating compelling data visualizations. Students will also be introduced to artificial intelligence and machine learning, gaining experience with the same tools used by professionals in the field. At the end of the course, students will have a portfolio of their data science work to showcase their newly developed knowledge and understanding. This course is ideal for a wide variety of students, particularly those looking to continue on in fields of Business, Medicine, Applied Math, or Computer Science.

PROJECT MATH - EVERYDAY APPLICATIONS

1 Credit
Prerequisite: Algebra 2 or Algebra and Statistics
Required: Graphing Calculator

This course is designed to help students apply mathematics to real-world problems through engaging, project-based experiences. Emphasizing financial literacy, design, technology, and decision-making, students will explore how math is used in daily life, careers, and independent living. Students will strengthen their quantitative reasoning, problem-solving, and data analysis skills while completing hands-on projects such as designing a budget, creating blueprints, building digital dashboards, and developing strategies using probability and statistics. Topics include ratios and proportions, measurement, functions, linear and exponential models, geometric applications, and financial mathematics. Through collaborative projects and presentations, students will gain confidence in applying mathematics to personal, professional, and academic settings, preparing them for future college or career pathways.

MATH IN STRATEGY AND STORYTELLING

1 Credit
Prerequisite: Applied Geometry or Geometry
Required: Graphing Calculator
This course explores the connection between mathematics, strategy, and storytelling through real-world problem solving and creative design. Students will use mathematical concepts to interpret data, craft narratives, and develop strategies across fields such as business, gaming, and digital media. Areas of study include probability, statistics, game theory, logic, and data visualization. Students will apply quantitative reasoning to analyze outcomes, build predictive models, and communicate mathematical ideas through visual and written storytelling formats. Projects will challenge students to create data-driven stories, develop strategic models, and present mathematical arguments that inform decision-making. This course builds critical thinking, communication, and analytical skills while showing how math shapes the stories we tell and the strategies we create.

INTERMEDIATE ALGEBRA

1 Credit
Prerequisite: Applied Geometry or Geometry
Required: Graphing Calculator
NCAA
This course is designed as a bridge to further mathematics. Algebra and analytic geometry will be the primary areas of study with continued work in a variety of mathematical topics. Students will work with linear equations and inequalities, as well as quadratics. Students will also use statistical methods including measures of central tendency to describe and compare data. This provides exposure for the student prior to entering a college-level course.

ADVANCED PLACEMENT CALCULUS AB/BC

1 Credit **Grade 12**
Prerequisite:
AB: A final course average of 85 or higher in Pre-Calculus Honors or a 90 or higher in Pre-Calculus, or Departmental approval
BC: A final course average of 90 or higher in Pre-Calculus Honors or a 95 or higher in Pre-Calculus, or Departmental approval
Required: Graphing Calculator
NCAA
AB: *The Advanced Placement Program is a cooperative educational endeavor with the College Entrance Examination Board. This course is intended for students who have a thorough knowledge of college preparatory mathematics including algebra, axiomatic geometry, trigonometry, and analytic geometry. The Advanced Placement course consists of a full year of academic work in calculus and related topics comparable to courses offered in colleges and universities.* ***All students enrolled in this course are required to take the Advanced Placement Exam in Calculus.***

BC: *Advanced Placement Calculus BC is a more advanced course than AB. The course will include a brief review of differentiation and integration with new applications being included throughout. In addition, polynomial approximations (converging and diverging series and Taylor series) will be a large part of the course work.* ***All students enrolled in this course are required to take the Advanced Placement Exam in Calculus.***

ADVANCED PLACEMENT STATISTICS

1 Credit **Grade 11 – 12**
Prerequisite: 85% or higher in Algebra 2 or Pre-Calculus or Departmental approval
Required: Graphing Calculator
NCAA
AP Statistics is a full year college-level course that introduces students to the concepts and tools used to collect, analyze, and draw conclusions from data. Emphasizing real-world applications and interpretation over computation, the course covers four key areas: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students learn to design studies, analyze data using technology, and communicate results effectively. Through hands-on activities, they develop critical thinking and quantitative reasoning skills that prepare them for the AP Statistics Exam and future studies in fields such as science, social science, business, and medicine. This course may be taken simultaneously with another math course, such as Pre-Calculus, or Calculus. ***All students enrolled in this course are required to take the Advanced Placement Exam in Statistics.***

Suggested Course Pathways for Math

9th Grade	10th Grade	11th Grade	12th Grade
		Intermediate Algebra	Intermediate Algebra
		Geometry	Algebra & Statistics
	Applied Geometry	Algebra & Statistics	Algebra 2
Algebra I	Geometry	Math in Strategy and Storytelling	Algebra 2H
	GeometryH	Algebra 2	Math in Strategy and Storytelling
		Algebra 2H	Project Math Everyday Applications
		Data Science	Data Science
		Pre-Calc	Pre-Calc
Geometry	Algebra 2	Pre-CalcH	Pre-CalcH
GeometryH	Algebra 2H	AP Stat	AP Stat
			Calculus
			AP Calc AB
			AP Calc BC

*Pathways suggested varies with student performance and diploma requirements.
Students should meet minimum requirements and suggested prerequisites.
Review course descriptions and speak to a Guidance Counselor regarding course selections.

Music

CONCERT BAND

1 Credit **Grades 9 - 12**

Incoming freshman must have been a member of 8th grade band or have departmental approval

Students who qualify for Concert Band are expected to perform standard concert band repertoire and NYSSMA Level IV and V Literature, attend group lessons, and attend all concerts. Participation in the NYSSMA Solo Festival is encouraged, but not required. This is a major performing group that may be used for a sequence and satisfies the one unit arts requirement.

SYMPHONIC BAND

1 Credit **Grades 9 - 12**

Audition Required

Prerequisite: Demonstrate a high level of performance ability (NYSSMA Solo Level V or VI), or participation in Concert Band

Students who qualify for the Select Symphonic Band are expected to perform Standard Symphonic Band Repertoire and NYSSMA Level V or VI Band Literature, perform in small ensembles, attend group lessons, and attend all concerts. Participation in the NYSSMA Solo Festival is encouraged, but not required. This is a major performing group that may be used for a sequence and satisfies the one unit arts requirement.

CONCERT CHORUS

1 Credit **Grades 9 – 12**

Incoming freshman must have been a member of 8th grade Chorus or have departmental approval

Students who quality for Concert Chorus are expected to perform standard choral repertoire, attend group lessons, and attend all concerts. Participation in the NYSSMA Solo Festival is encouraged, but not required. This is a major performing group that may be used for a sequence and satisfies the one unit arts requirement.

SELECT CHORUS

1 Credit **Grades 9 – 12**

Audition Required

Prerequisite: Demonstrate a high level of performance ability (NYSSMA Solo Level V or VI), or participation in Concert Chorus

Students who qualify for the Select Chorus are expected to perform NYSSMA Level V or VI Choral Literature or comparable, perform in small ensembles, attend group lessons, and attend all concerts. Participation in the NYSSMA Solo Festival is encouraged, but not required. This is a major performing group that may be used for a sequence and satisfies the one unit arts requirement.

ORCHESTRA

1 Credit **Grades 9 – 12**

Incoming freshman must have been a member of 8th grade Orchestra or have departmental approval

Students who qualify for Orchestra are expected to perform standard string repertoire, attend group lessons and attend all concerts. Participation in the NYSSMA Solo Festival is encouraged, but not required. This is a major performing group that may be used for a sequence and satisfies the one unit arts requirement.

.

INSTRUMENTAL JAZZ ENSEMBLE

1 Credit **Grades 9 – 12**

Audition Required

Suggested co-requisite: Enrollment in a larger performing Group

*Students will be **selected** for this ensemble on the basis of a competitive audition. They will perform various styles of Jazz as well as popular and show music. (NYSSMA Level V + VI or Higher). Students will be expected to perform as soloists as well as in the Ensemble. Participation in all concerts and performances is required. Participation in the NYSSMA Jazz Solo Festival is encouraged, but not required.*

VOCAL JAZZ ENSEMBLE

1 Credit **Grades 9 – 12**

Audition Required

Suggested co-requisite: Enrollment in a larger performing Group

*Students will be **selected** for this ensemble on the basis of a competitive audition. Their performance is limited to the many different forms of Jazz as well as popular and shows music. (NYSSMA Level V + VI or Higher). Students will be expected to perform as soloists as well as in the Ensemble. Participation in all concerts and performances is required. Participation in the NYSSMA Jazz Solo Festival is encouraged, but not required.*

AP MUSIC THEORY

1 Credit **Grades 11 – 12**

Co-requisite: Enrollment in a performing group, or departmental approval

The Advance Placement Music Theory course is designed to provide a basis of knowledge in written music theory as well as ear training skills to students who already have the ability to read musical notation. Students will prepare for the Advance Placement Exam in Music Theory which will be taken in May. All students enrolled in AP Music Theory are required to take the Advance Placement Exam in Music Theory. Daily course work will involve written homework, individual sight singing exercise, melodic, rhythmic, and harmonic dictation as well as musical analysis.

Physical Education

Physical Education is a New York State mandated course scheduled on a co-educational basis. All students must successfully participate in physical education and complete a four-year program in order to receive a diploma. The curriculum focuses on the physical activities, skills, knowledge and attitudes that will allow students to attain an optimal quality of life and well being.

Physical Education Requirements:

- All students must participate in their respective physical education classes.
- Students who have a doctor's note will be required to participate in physical education for the medically excused.
- Students will be graded with an emphasis on written and skill assessments plus participation.
- Students are required to dress properly for the class with sneakers, shirt and shorts, or sweat suit.

PHYSICAL EDUCATION

Fall and Spring (1/4 Credit each semester)

Students will perform basic motor and manipulative skills. They will attain competency in a variety of physical activities and proficiency in a few select complex motor and sports activities. Students will design personal fitness programs to improve cardio respiratory endurance, flexibility, muscular strength, endurance, and body composition.

Students will demonstrate responsible personal and social behavior while engaged in physical activity. They will understand that physical activity provided the opportunity for enjoyment, challenge, self-expression and communication. Students will be able to identify safety hazards and react effectively to ensure a safe and positive experience for all participants.

Students will be aware of and able to access opportunities available to them within their community to engage in physical activity. They will be informed consumers and be able to evaluate facilities and programs. Students will also be aware of some career options in the field of physical fitness and sports.

Science

LABORATORY REQUIREMENTS

Students enrolled in Earth Science, Living Environment, Chemistry, or Physics are required to complete **30 laboratory assignments** per year in order to take the prescribed Regents examination in June. Students enrolled in any lab science course concluding in a Regents examination must complete a total of **1200 minutes** of laboratory experience with satisfactory written reports for each laboratory investigation in order to take the prescribed Science Regents examination. **Students not completing this requirement by June 1st will not be allowed to take the Regents examination**.

EARTH AND SPACE SCIENCE

1 Credit with lab Grades 9 – 12
NCAA

Earth and Space Science explores the dynamic systems of our planet and its place in the universe. Students will explore the universe and its stars, travel back through the history of the Earth, examine interactions between materials and Earth's systems, identify climate patterns, determine factors that impact weather and climate and develop solutions for global concerns. Students will apply modeling, engineering design, and problem-solving techniques to reinforce their understanding of Earth and space systems.
Completion of 1,200 minutes of lab activities, including three state-mandated science investigations, is required, and the course culminates in the Earth and Space Science Regents Exam. This course meets the New York State Science Learning Standards and prepares students to address real-world scientific challenges.

LIFE SCIENCE: BIOLOGY

1 Credit with lab Grades 9 – 12
Pre-requisite: Earth & Space Science
NCAA

This Regents-level course is aligned with the New York State Science Learning Standards and emphasizes inquiry-based learning and hands-on investigations. Students will explore topics such as the structure and specialized functions of cells, metabolic processes, body systems, interdependent relationships in ecosystems, inheritance of traits, and biological evolution. The course fosters skills in identifying patterns, evaluating evidence, and constructing scientific explanations to deepen understanding of biological concepts. Students will apply modeling, engineering design, and problem-solving techniques to reinforce their understanding of Biology. Completion of 1,200 minutes of lab activities, including three state-mandated science investigations, is required, and the course culminates in the Biology Regents Exam. This course meets the New York State Science Learning Standards and prepares students to address real-world scientific challenges.

LIFE SCIENCE: BIOLOGY HONORS

1 Credit with lab Grades 9 – 12
Pre-requisite: 90 or higher course average in Earth & Space Science course, or Departmental approval
Suggested: 85% or better on Earth & Space Science Regents exam
NCAA

This honors-level Regents course is based upon the New York State Science Learning Standards as described in the Regents-level Life Science: Biology program and emphasizes inquiry-based learning and hands-on investigations. Students will explore topics such as the structure and specialized functions of cells, metabolic processes, body systems, interdependent relationships in ecosystems, inheritance of traits, and biological evolution. The course fosters skills in identifying patterns, evaluating evidence, and constructing scientific explanations to deepen understanding of biological concepts. Students will apply modeling, engineering design, and problem-solving techniques to reinforce their understanding of Biology. In addition, the course provides supplemental material and extrapolations of concepts to enhance both the exploration and collaboration portions of the course. Completion of 1,200 minutes of lab activities, including three state-mandated science investigations, is required, and the course culminates in the Biology Regents Exam. This course meets the New York State Science Learning Standards and prepares students to address real-world scientific challenges.

PHYSICAL SCIENCE –CHEMISTRY

1 Credit with lab Grades 10 – 12

Pre-requisite: Two Lab Sciences or Departmental approval

NCAA

This Regents-level course is aligned with the New York State Science Learning Standards and emphasizes inquiry-based learning and hands-on laboratory investigations. Students will explore topics such as atomic structure, periodic trends, chemical bonding, reactions, stoichiometry, energy transformations, and the properties of matter. The course fosters curiosity, critical thinking, and problem-solving skills as students analyze patterns, interpret data, and construct evidence-based explanations of chemical phenomena. Emphasis is placed on developing precise measurement and laboratory techniques while applying chemistry concepts to real-world contexts, including environmental and technological issues. Through modeling, experimentation, and collaborative inquiry, students will develop a deeper understanding of how chemistry connects to daily life and global challenges. Completion of 1,200 minutes of lab activities, including three state-mandated science investigations, is required, and the course culminates in the Chemistry Regents Exam. This course meets the New York State Science Learning Standards and prepares students to think critically about the chemical processes that shape our world.

PHYSICAL SCIENCE –CHEMISTRY HONORS

1 Credit with lab Grades 9 – 12

Prerequisite: 85 or higher course average in Physical Science: Biology Honors course, 90 or higher course average in Physical Setting: Biology, or Departmental approval

Suggested: 85% or better on Life Science: Biology Regents exam

NCAA

This honors-level Regents course is based upon the New York State Science Learning Standards as described in the Regents-level Physical Science: Chemistry program and emphasizes inquiry-based learning and hands-on investigations. Students will explore topics such as atomic and molecular structure, periodicity, chemical bonding, reactions, stoichiometry, thermodynamics, kinetics, and properties of matter. The course fosters advanced skills in observation, data analysis, and problem-solving as students design and conduct experiments using precise laboratory equipment and techniques. Students will apply modeling, engineering design, and quantitative reasoning to explain and predict chemical behavior, making connections between theoretical principles and real-world applications in environmental, industrial, and societal contexts. In addition to the core curriculum, students will engage in extended learning opportunities through field and laboratory experiences designed to promote independent inquiry and critical thinking. Portfolios of laboratory work, written reports, and reflective analyses will be maintained throughout the year. Completion of 1,200 minutes of lab activities, including three state-mandated science investigations, is required, and the course culminates in the Chemistry Regents Exam. This course meets the New York State Science Learning Standards and provides a rigorous foundation for students interested in advanced study, including AP Chemistry.

GENERAL CHEMISTRY

1 Credit with lab Grades 11 – 12

Prerequisite: Successful completion of two Lab Sciences, or Departmental approval

General Chemistry with Lab is meticulously designed to immerse students in the fundamental concepts and applications of chemistry, with parallels to the scope and rigor of the Regents Chemistry course. This course provides students with a foundation understanding of chemistry. Studies focus on chemical properties of various substances, classes of matter, atomic structure, the periodic table, chemical analysis, organic chemistry, environmental pollution, and chemistry in the home. Students will develop and hone their skills in observation using precise laboratory equipment and techniques. Qualitative and quantitative data will be analyzed as a means of delivering basic and advanced course concepts. Students will develop time management skills through completion of assignments in coordination with course landmarks and checkpoints. Students will be involved in a variety of laboratory investigations and will take a final exam in June. ***This course will not conclude with a Regents exam at the end of the year.***

PHYSICAL SCIENCE – PHYSICS

1 Credit with lab Grades 11 - 12
Pre-requisite: Three Lab Sciences or Departmental approval
NCAA
This Regents-level course is aligned with the New York State Science Learning Standards and emphasizes inquiry-based learning and hands-on investigations. Students will explore topics such as motion, forces, energy, wave phenomena, electricity, magnetism, and the interactions between matter and energy. The course fosters skills in identifying patterns, analyzing data, and constructing scientific explanations to deepen understanding of the physical laws that govern the universe. Students will apply modeling, problem-solving, and engineering design to investigate and explain real-world phenomena, connecting theoretical principles to everyday life and technology. Conceptual understanding and practical application are emphasized, with mathematical relationships used as tools to support reasoning and deepen insight. Through minds-on and hands-on learning experiences, students will develop scientific habits of mind and critical thinking skills essential for college and career readiness. Completion of 1,200 minutes of lab activities, including three state-mandated science investigations, is required, and the course culminates in the Physics Regents Exam. This course meets the New York State Science Learning Standards and prepares students to apply physics principles to the challenges of an ever-changing world.

ADVANCED PLACEMENT PHYSICS 1: ALGEBRA BASED

1 Credit with lab Grades 11 - 12
Prerequisite: 85 Course average or higher in Honors Chemistry or 90 or higher in Regents Chemistry, or Departmental approval
NCAA
Physics 1: Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. The primary focus of this course is to prepare students to take the AP Exam in May. Please note there are significant differences between the AP exam in Physics 1 and the NYS Physical Setting – Physics Regents exam. If a student chooses to take the Physical Setting – Physics Regents examination in June self-preparation outside of class time will be necessary. In addition, if a student chooses to take the Regents examination in June, satisfactory completion of 1200 minutes of laboratory work is a prerequisite for taking the Regents examination. There is a large emphasis on mathematics. ***All students are required to take the Advanced Placement Test in May.***

ADVANCED PLACEMENT BIOLOGY

1 Credit with lab Grades 11 - 12
Prerequisite: 85 or higher in Life Science: Biology Honors, 90 or higher in Life Sciences: Biology and 85 or higher in Honors Chemistry or 90 average in Chemistry, or Departmental approval
NCAA
AP Biology is a college level course. It reflects the topics found in introductory General Biology courses. The course is built around four big ideas:
Big Idea #1: The process of evolution explains the diversity and unity of life.
Big Idea #2: Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis.
Big Idea #3: Living systems store, retrieve, transmit, and respond to information essential to life processes.
Big Idea #4: Biological systems interact, and these systems and their interactions possess complex properties.
The class will consist of lecture and lab. Participating colleges in turn may grant credit and/or appropriate placement, depending on their policies, to those students who have scored well on this examination.
All students are required to take the Advanced Placement Exam in May.

ADVANCED PLACEMENT CHEMISTRY

1 Credit with lab Grades 11 - 12
Prerequisite: 85 average in Honors Chemistry, 90 or higher average in Chemistry and 90 or higher average in Physics, or Departmental approval
NCAA
AP Chemistry is a college-level course. It reflects the topics typically found in introductory Chemistry courses. It also seeks to show that science is a human endeavor with social consequences. The class will consist of lecture and lab, meeting seven periods a week. Participating colleges in turn may grant credit and/or appropriate placement, depending on their policies, to those students who have scored well on this examination. ***All students are required to take Advanced Placement Test in May.***

FORENSIC SCIENCE

½ Credit Fall or Spring Semester Grades 11-12
Prerequisite: Two Regents Science courses
NCAA

Science is a valuable tool in the modern world of criminal justice, archeology and other areas. This course is an elective, which is designed to study the science of application of science for investigative purposes. In criminal cases forensic scientists are often involved in the search for and examination of physical traces that might be useful for establishing or excluding an association between someone suspected of committing a crime and the scene of the crime or victim. Such traces commonly include blood and other body fluids, hairs, textile fibers from clothing, etc., materials used in buildings such as paint and glass, footwear, tool and tire marks, flammable substances used to start fires and so on. Other forensic scientists analyze suspected drugs of abuse, specimens from people thought to have taken them, or to have been driving after drinking too much alcohol or to have been poisoned. Yet others specialize in firearms, explosives, or documents whose authenticity is questioned. This elective course will include the foundations of Forensic Science.

HUMAN ANATOMY & PHYSIOLOGY

½ Credit Fall or Spring Semester Grades 11-12
Prerequisites: Two Regents Science
NCAA

This course is intended to introduce students to the anatomical features and physiological processes of the human body. Emphasis will be on understanding the physiology of the basic processes of life which include organization, metabolism, responsiveness, movements, growth, differentiation, respiration, digestion, and excretion. Students will learn how each system works together to maintain homeostasis. Students will study the signs and symptoms of the world's most common ailments and diseases.

MARINE SCIENCE

1/2 Credit Fall or Spring Semester Grades 11 - 12
Prerequisite: Two Regents Science
NCAA

Look out on Long Island Sound. From the bluffs of Miller Place, you see only the surface of a complex world that lies above, below, and at the interface of air, water, and land. Marine science will help you explore this exciting world. You will learn about the many different plants and animals that inhabit the marine environment from the smallest plankton to the largest whales. You will identify common species and learn their relationship to one another. You will study the water with its waves and currents that carry heat and cold all over this planet. You will explore the ocean floor, like some gigantic bathtub with its plug pulled. Lab work will be used to examine this world.

ASTRONOMY

1/2 Credit Fall or Spring Semester Grades 11 – 12
Prerequisite: Two Regents Science
NCAA

On a clear night you can look up to the heavens and see thousands of stars, the haze of the Milky Way, the bright planets, and the old familiar Moon .Where did all these objects come from? How are they arranged in space? Does a star shine forever? How long is forever? Astronomy will take you on a journey through time and space from the beginning of the universe through the birth and death of stars. You will study solar systems, look at our solar system and other large groups, and look at galaxies and clusters of galaxies. You will look through telescopes to see these objects as Galileo first did three hundred years ago and as modern astronomers do today. *You will look through telescopes to see these objects as Galileo first did three hundred years ago and as modern astronomers do today.* *Take the opportunity to become familiar with this rapidly developing area of science.*

COLLEGE FORENSICS

1 Credit Grades 11 – 12
4 College Credits (Tuition Fee Associated)
Prerequisite: Two Regents Science
NCAA

This course is focused upon the application of scientific methods and techniques to crime and law. Recent advances in scientific methods and principles have had an enormous impact upon law enforcement and the entire criminal justice system. This course is intended to provide an introduction to understanding the science behind crime detection. Scientific methods specifically relevant to crime detection and analysis will be presented with emphasis placed upon the techniques used in evaluating physical evidence. Topics included are blood spatter analysis, organic and inorganic evidence analyses, microscopic investigations, hair analysis, DNA, drug chemistry and toxicology, fiber comparisons, paints, glass compositions, and fragmentation, fingerprints, soil comparisons, and arson investigations, among others. Laboratory exercises will include techniques commonly employed in forensic investigations. This course is offered in conjunction with Syracuse University Project Advance (SUPA).

SCIENTIFIC COMPUTING

1 Credit **Grades 11 – 12**

Prerequisite: Two Regents Science Courses, Algebra 2 & Chemistry

NCAA

This course will introduce students to many fundamental mathematical and computer programming techniques employed by scientists to discover patterns in laws governing mathematics, chemistry, physics and biology. Through a series of demonstrations and hands on programming exercises developed by a ***Brookhaven National Lab*** *instructor, students will acquire, basic programming skills used in supporting modern experiments in computational science. The goal of this course is to provide students with powerful scientific computing skills needed by all modern scientific research teams. Scientists and engineers rely more than ever on computer modeling and simulation with large data sets (Scientific Computing) to guide their experimental and design work.*

FUTURE MEDICAL PROFESSIONALS

1 Credit **Grades 11-12**

Prerequisites: Successful completion of Life Sciences: Biology and Chemistry with an 85 or higher

Should not be taken simultaneously with Human Anatomy and Physiology (½ year course)

This rigorous elective course is designed for students interested in pursuing a career in the medical field. The course will begin with an exploration of chemical processes relevant to a variety of biological phenomena such as: regulation of blood pH, nutrient metabolism, cell communication, and coordination of body systems. Students will then examine each system in great detail. Anatomical features at the microscopic and macroscopic levels will be discussed as students study the role of each system in maintaining homeostasis. Students will practice their analytical skills as they attempt to diagnose patients exhibiting symptoms of disease. Students will plan a course of treatment and conduct research regarding the latest medical advancements. Students will have an opportunity to engage with experts in the field and explore various career paths within the healthcare industry.

LONG ISLAND ENVIRONMENTAL SCIENCE

1/2 Credit **Grades 11-12**

Prerequisites: Successful completion of two Regents Sciences

Long Island Environmental Science offers an engaging semester-long exploration into the rich and diverse environmental narrative of Long Island, spanning its geological origins to contemporary environmental challenges and solutions. This course intricately weaves the threads of geology, biology, oceanography, chemistry, and meteorology to present a multidimensional view of Long Island's environmental tapestry. Through field studies, guest lectures, and interactive classroom discussions, students will delve into the past, examine the present, and envision the future of Long Island's unique ecological landscape, aligning with the next generation science standards.

Suggested Course Pathways for Science

9th Grade	10th Grade	11th Grade	12th Grade
		Astronomy	Astronomy
		Marine Science	Marine Science
		Forensics	Forensics
		Anatomy & Physiology	Anatomy & Physiology
		Long Island Environmental Science	Long Island Environmental Science
Earth and Space Sciences	Life Science: Biology	General Chemistry	General Chemistry
		Chemistry	College Forensics
		College Forensics	AP Biology
Life Science: Biology	Chemistry	Physics ---------- AP Physics	AP Chemistry
Life Science Biology H	Chemistry H	Future Medical Professionals	Physics ---------- AP Physics
		Scientific Computing	Future Medical Professionals
			Scientific Computing

*Pathways suggested varies with student performance and diploma requirements.
Students should meet minimum requirements and suggested prerequisites.
Review course descriptions and speak to a Guidance Counselor regarding course selections.

Social Studies

GLOBAL HISTORY & GEOGRAPHY I

1 Credit **Grade 9**
Prerequisite: Social Studies 8
NCAA
This course is the first of a two-year required course of study in world history and begins with the Paleolithic Era and the development of the first civilizations, continues with an examination of classical societies, and traces the expansion of trade networks and their global impact. The course emphasizes the key themes of interactions over time, shifts in political power, and the role of belief systems. Students will analyze documents and apply their skills through the process of stimulus-based questions, constructed response questions and enduring issues essays. The course concludes with a district final examination.

SOCIAL STUDIES 9 HONORS

1 Credit **Grade 9**
Prerequisite: Placement based on achievement in Social Studies 8 (course average of 95 or higher), or Departmental approval
NCAA
The course follows a chronological approach beginning with a study of Paleolithic and Neolithic times and concludes with a close look at the effects of exploration in the Atlantic world. The course emphasizes an understanding of the major developments and trends in world history, as well as teaching and promoting historical thinking and writing skills. Students will analyze and evaluate historical documents as well as compare secondary accounts of the past. Students will utilize the task models of stimulus based questions, short answer questions, document based questions and long essay questions. The course concludes with a district final examination. Students who take this course will continue their study of world history in 10th grade and will be prepared to take either AP World History or Global History and Geography II. This course satisfies the first year of the two-year required course of study in world history.

GLOBAL HISTORY & GEOGRAPHY II

1 Credit **Grade 10**
Prerequisite: Global History & Geography I
NCAA
This is the second year of a two-year required sequence in Global History and Geography. Students will learn about the Age of Revolution, major world events of the 19th and 20th centuries, and to make connections to current events. Students will analyze and evaluate historical documents and will write constructed response questions and enduring issues essays in world history. Students will take a Regents examination in Global History and Geography at the conclusion of the course.

ADVANCED PLACEMENT WORLD HISTORY

1 Credit **Grade 10**
Prerequisite: 85 average in Social Studies 9 Honors, 90 average in Global History and Geography I, or Departmental approval
NCAA
This is a college-level course that continues the 9th grade study of world history. Focused on world history from 1200, this course builds upon the historical thinking skills, habits of mind, and knowledge that students were introduced to in the 9th grade with an emphasis on an understanding of the major developments and trends in world history. Students will analyze and evaluate historical documents and will write Long Essay Questions linked to historical thinking skills, as well as document-based essays on the important themes in world history. This is a college level course and students will take both the College Board World History examination and the Regents examination in Global History at the conclusion of this course. This course satisfies the second year of the two-year required course of study in world history. **Students are required to take the Advanced Placement Examination in May and the Global History & Geography Regents examination.**

UNITED STATES HISTORY & GOVERNMENT

1 Credit **Grade 11**

Prerequisite: Global History & Geography II or Advanced Placement World History

NCAA

This required course of study is designed to provide students with a survey of the major events and trends in our nation's history. The course stresses an understanding of Constitutional and civic issues that have impacted our political, economic and social history. Students will apply their knowledge via stimulus-based questions, short answer document-based questions and civic literacy essays which address the state framework for social studies. At the conclusion of this course, students will take the Regents examination in United States History and Government. Prerequisite: Successful completion of Regents Global History and Geography II.

ADVANCED PLACEMENT UNITED STATES HISTORY

1 Credit **Grade 11**

Prerequisite: 85 or higher average in AP World History or 90 or higher average in Global History and Geography II, or Departmental approval

NCAA

This college-level course emphasizes major themes of American history from the founding of the first colonies to the preset. The course stresses an understanding of enduring Constitutional issues that have impacted our nation's political, economic and social history. Students in this course will analyze and evaluate historical documents and will write long essay questions linked to historical thinking skills, as well as document-based essays on the important themes in US history. This is a college level course and students will take both the College Board Advanced Placement Exam in United States History and the United States History and Government Regents Examination at the conclusion of the course. ***Students are required to take the Advanced Placement Examination in May and the United States History & Government Regents examination.***

PARTICIPATION IN GOVERNMENT

1/2 Credit Semester Course **Grade 12**

Prerequisite: United States History & Government or Advanced Placement American History

NCAA

The course helps students to become active and involved citizens through the exploration of important topics regarding all levels of government such as: justice, equality, and civic responsibility. Students will be encouraged to make connections between the structure of governmental processes and the role of the citizen in influencing this process

ECONOMICS

1/2 Credit Semester Course **Grade 12**

Prerequisite: United States History & Government or Advanced Placement American History

NCAA

Students in this course participate in learning activities enhance understanding of the principles and theories that are the foundation of our economic system. Students study topics such as globalization, the United States economic system, enterprise system, labor and business, personal finance, fiscal and monetary policy. Students will complete a three part portfolio project to fulfill course completion and graduation requirements.

ADVANCED PLACEMENT U.S. GOVERNMENT & POLITICS

1 Credit **Grade 12**

Prerequisite: 85 or higher average in AP United States History, 90 or higher average in United States History and Departmental approval

NCAA

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project. ***Students are required to take the Advanced Placement Examination in May.***

<u>Social Studies Electives</u> (Do not satisfy the 12th grade requirement)

CRIMINAL JUSTICE

1/2 Credit **Grades 10-12**
Prerequisite: None
NCAA
This course will investigate the different aspects of the criminal justice system and process. Students will study the history of American law, the administration of criminal justice, and the nature and problems of crime in contemporary society. The course is divided into the following general units: The Criminal Justice System and Process, The Adversary System, Lawmaking, Crime, Corrections and Police Procedures, and Criminal Justice as a profession.

PSYCHOLOGY

1/2 Credit **Grades 10-12**
Prerequisite: None (10th grade- Departmental approval required)
NCAA
Psychology is the study of behavior and mental process. It is a social science focusing on the mind and personality development. The course will incorporate application, analysis, and evaluation of a variety of concepts pertaining to internal and external factors influencing thoughts, feelings, and behavior. It includes the topics of nature versus nurture, personal stability and change, diversity, and mind versus body.

The purpose of Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. They also learn about the methods psychologists use in their science and practice.

SOCIOLOGY

1/2 Credit **Grades 10-12**
Prerequisite: None (10th grade- Departmental approval required)
NCAA
Sociology is the systematic study of human interaction. It is a social science focusing on how and why people are organized in society. This course will incorporate application, analysis, and evaluation of a variety of concepts pertaining to social interactions and social behaviors influencing thoughts, feelings, and actions. It includes the topics related to the global society, diversity (in regards to race, gender, and class), and controversy and debate.

This one semester elective introduces high school students to the science of sociology and its place in today's world. The course is concerned with the individual, the individual's role in society, the mobility of that society, the structure of society, the development of culture, and concludes with an examination of problems in society.

LONG ISLAND, PAST PRESENT AND FUTURE

1 Credit **Grades 10-12**
Prerequisite: None
NCAA
This course is designed to explore the development of Long Island from Dutch Settlement days through the present. Students will explore Long Island through a number of unique perspectives, including but not limited to, literature, primary resources, history texts, site visits, films and speakers. A considerable amount of time in this course will be dedicated to exploring the current economic, governmental, political and social issues and trends affecting Long Island.

ADVANCED PLACEMENT PSYCHOLOGY

1 Credit **Grade 11 or 12**

Prerequisite: 85% or higher in two years of high school social studies, or Departmental approval

NCAA

The AP course in Psychology introduces students to the systematic and scientific study of human and animal behavior. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields of psychology, and learn about the scientific and practical methods of psychologists. Upon successful completion of this course and the AP examination, a college may grant credit for completion of a one 1/2 year introductory course in psychology. Students will be expected to take the AP Psychology examination in May. **Students are required to take the Advanced Placement Examination in May.**

SPORTS HISTORY

1/2 Credit **Grade 10-12**

Analyze the historical role that sports have had on society. We will focus on the emergence of modern sports and the role they play domestically in the United States and abroad. We will evaluate a variety of different sports and learn how their evolutions over time are connected with relevant historical processes. Students will learn to think historically and critically, being able to see different sports develop over time, the factors that contribute to that, and the overall meaning behind their impact.

ADVANCED PLACEMENT HUMAN GEOGRAPHY

Prerequisite: 85% or higher in previous year of AP/honors social studies, 90% or higher in previous year regents-level social studies and Departmental approval

1 Credit **Grades 10-12**

AP Human Geography is an exciting exploration of how humans shape the world and how the world, in turn, shapes us. Students dive into topics like urban development, population patterns, culture, and globalization to understand the forces driving change across our planet. It is a fast paced, eye opening course that transforms the way you see maps, cities, and the people who make our world so dynamic. By the end of the course, students gain a deeper appreciation for how geography connects every aspect of human life. ***Students are required to take the Advanced Placement Examination in May.***

Social Studies Department Sequence

Regents Level

↓

Global History & Geography I (9th)

↓

Global History & Geography II (10th)

↓

United States History & Government (11th)

↓

Participation in Government & Economics (12th) (1/2 Semester

Honors / AP Level

↓

Social Studies 9 Honors

↓

Advanced Placement World History

↓

Advanced Placement United States History

↓

Advanced Placement U.S. Government

Social Studies Electives

Criminal Justice (10th-12th)

Psychology (10th-12th)

Sociology (10th-12th)

Long Island, Past, Present & Future (10th-12th)

Sports History (10th-12th)

Advanced Placement Psychology (11th-12th)

Advanced Placement Human Geography (10-12)

* Students may request during course selection to move into, or out of Honors/AP courses based on meeting the prerequisite requirements.

Technology

DESIGN & DRAWING FOR PRODUCTION

1 Credit **Grades 9-12**

Prerequisite: None

The Design and Drawing for Production course intends to provide students with the opportunities to explore areas of design and drawing through creative thinking, decision-making and visual problem-solving experiences. Students will learn to use a common graphic language to describe forms in the human-made environment and properly convey design concepts. This course is an attempt to deviate from the conventional learning methods and application of skills through a more exciting design problem approach. It provides experiences for the student to act as a designer when presented with a problem. Formulation of unique & creative solutions through design and drawing exercises is central to the course. Computer aided drafting software and 3D printing will be used in conjunction with conventional drawing methods throughout the course. ***This course may be used to satisfy the high school Art/Music requirement****

COMPUTER AIDED DESIGN (CAD)

1 Credit **Grades 9-12**

Prerequisite: None

CAD or Computer Aided Design is a course that will expose students to CAD technology including history, careers, 2d & 3d design applications, and basic architecture floor plans. The majority of the time spent in this course will consist of using AutoCAD software to solve graphic problems and emphasis will be placed on the use of a CAD system for design applications. Students will acquire technical drafting skills, an understanding of industrial standards, and be able to recognize the current methods of generating and documenting hard copy. Students will understand how CAD and computer technology is changing the role of drafting and what effects this will have on the design and manufacturing process.

PRINCIPLES OF ENGINEERING

1 Credit **Grades 11-12**

Principles of Engineering is a "hands on" laboratory oriented course where students will be introduced to problems that engage and challenge. Students will explore a broad range of engineering topics, including mechanisms, bridge structures, automotive safety, basic electronics, energy sources and automation. Taking on the role of an engineer, students will develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

World Language

In an increasingly interdependent world, the ability to communicate in languages other than English is an integral part of all students' educational experience. The primary aims of foreign language instruction are to develop functional communication skills in listening, speaking, reading, and writing in the target language, to broaden students' understanding and appreciation of different cultures, and to provide students with additional skills which will be useful in career selection.

SPANISH I

1 Credit
NCAA
The second year of Checkpoint A of the New York State Standards will continue to emphasize the communicative language proficiencies of listening, speaking, reading, and writing in contextual settings. Cultural concepts of the target language studied will be integrated into all communicative skills. A Checkpoint "A" exam will be given as a final exam to be included in the course average.

SPANISH II and ITALIAN II

1 Credit
Prerequisite: Spanish I or Italian I
NCAA
The emphasis of these courses are the skills of speaking, listening comprehension, reading comprehension and writing for the fifteen topics of the New York State Standards for foreign language meeting Checkpoint B of the Level II State curriculum. Grammatical structures are expanded to include five tenses and vocabulary is increased in the communicative approach. In Level II, preliminary preparation for next year's Checkpoint "B" Exam begins with early examples of the exam style questions used in tests for Level II. The exam, which is a departmental exam, follows the style of the Checkpoint "B" exam.

SPANISH III and ITALIAN III

1Credit
Prerequisite: Spanish II or Italian II
NCAA
The emphasis of these courses are the skills of speaking, listening comprehension, reading comprehension and writing for the fifteen topics of the New York State Standards for foreign language meeting the Level III State curriculum. Grammatical structures are sharpened and vocabulary is broadened. Perfecting skills in preparation for the locally developed "Checkpoint B" examination. Can be taken for college credit through the ACE program (tuition fee associated).

SPANISH IV and ITALIAN IV

1 Credit
Prerequisite: Spanish III or Italian III
NCAA
The language is used almost exclusively in the classroom. Authentic materials are used in class as a basis for oral expression. Oral activities are closely related to reading activities. Students are introduced to well known works of literature and authors. Students participate in creative use of the language. Other topics include: geography, history, and art. Can be taken for college credit through the ACE program (tuition fee associated).

SPANISH IV and ITALIAN IV HONORS

1 Credit
Prerequisite: Spanish III or Italian III with a final average of 90 or higher, or Departmental approval
NCAA
Level IV Honors is designed for students who are highly motivated and would like to challenge themselves in a world language course. This course will move through curriculum more quickly and with greater depth and cultural infusion. Students will build upon their previous experience in Italian or Spanish and will continue to develop their skills in interpretive, interpersonal, and presentational skills. The intention of the course is to prepare students for the level V Honors course and possibly a future Advanced Placement (AP) course. This course can be taken for college credit through the ACE Program (tuition fee is applicable).

SPANISH V and ITALIAN V

1 Credit
Prerequisite: Spanish IV or Italian IV
NCAA
In this final year of language study in the high school our aim is to integrate and extend the linguistic accomplishments of the previous years. Acquired knowledge and skills are consolidated as students begin to feel more at ease in the language. Communication skills in speaking and writing are further developed through an introduction to literature, grammar review, films and thematic projects. Can be taken for college credit through the ACE program (tuition fee associated).

SPANISH V and ITALIAN V HONORS

1 Credit
Prerequisite: Spanish IV or Italian IV with a final average of 90 or higher, or Departmental approval
NCAA
In this culminating year of advanced language study at the honors level, our focus is on integrating and expanding upon the linguistic achievements attained in preceding years. Students will solidify their acquired knowledge and skills while gaining increased fluency and confidence in the language. This course emphasizes advanced communication skills in both spoken and written forms, encompassing an introduction to literature, comprehensive grammar review, and thematic project work. Additionally, this honors course offers the opportunity for college credit through the ACE program (tuition fee applicable).

ADVANCED PLACEMENT SPANISH and ITALIAN

1 Credit
Prerequisite: Spanish IV or Italian IV: Minimum average of 90% in previous language course, Departmental approval & summer assignment
NCAA
Advanced Placement Courses will be offered whenever sufficient enrollment materializes.
This course is the equivalent of a third-year college level course in advanced composition and conversation. The Advanced Placement Language courses emphasize the use of the target language for active communication and have the objective of developing the following skills:

- *Using vocabulary, grammar, and syntax with a high degree of proficiency.*
- *Understanding the spoken target language in both formal and informal conversations settings.*
- *Reading newspaper and magazine articles, contemporary fiction, and non-technical writings without the use of a dictionary.*
- *Expressing ideas accurately, and fluently both orally and in writing.*
- *Extensive training in the organization and writing of compositions.*

Course content will reflect intellectual interests shared by the students and instructor (the arts, current events, literature, sports, etc.) Instructional material will include recordings, films, newspapers, and magazines. Advanced Placement courses are given an additional Grade Point Average weighting. Can be taken for college credit through the ACE program.

There is a fee for the Advanced Placement Exam Advanced Placement Program of the College Board. Students who meet acceptable achievement on the exam may be granted advanced status or credit by colleges which participate in the program.

BOCES Vocational Education

The Eastern Long Island Academy of Applied Technology (formerly BOCES), of which we are a part, offers a wide variety of specialized vocational training for students in Grades 11 and 12. There is an application process that must be completed for a student to be considered for admittance to an ELIAAT program. All students will go to ELIAAT in the afternoon.

Students who enroll in these courses spend a half-day at an ELIAAT occupational center and a half-day at Miller Place High School.

COURSES AT BOCES

1 and 2 year Programs - 4 Credits per Year

- **Students are required to have earned an 11th grade status**
- **12th grade students entering the second year of a program will be given preference, followed by 11th grade students and, lastly, by 12th grade students.**
- **Students are required to have their application submitted by March 7 (without exception).**
- **A student's attendance & behavioral records will be a factor in the application/approval process (OSS/ISS).**
- **Students need to adhere to ELIAAT/BOCES and high school attendance policies. Attendance at the high school and at ELIAAT/BOCES will be a factor in determining a student's future eligibility in attending ELIAAT/BOCES.**
- **ELIAAT/BOCES students will attend morning classes at MPHS and a p.m. ELIAAT/BOCES program. Busses from ELIAAT/BOCES will return in the late afternoon. Please keep this in mind when considering ELIAAT as an elective. This may impact the ability to participate in extracurricular or athletic activities and Operation Success.**
- **Withdrawal from ELIAAT/BOCES after the course add/drop period will result in a grade of zero be averaged into a student's cumulative Grade Point Average with a weight of four credits.**
- **Some ELIAA/BOCES programs have material or equipment fees associated with them. Students are individually responsible for these fees.**

PLEASE NOTE:

- **12th Grade students granted Miller Place High School parking privileges are not allowed to drive to, or from BOCES sites. Students will be required to take District provided transportation.**

Eastern Long Island Academy of Applied Technology Course Offerings

Advanced Manufacturing
Animal Science
Art Design and Visual Communications
Audio Production
Auto Body Repair and After-Market Accessories
Automotive Technology
Aviation/Professional Pilot Training
Barbering
Carpentry/Residential Construction and Home Improvement
Certified Personal Trainer
Clinical Medical Assisting
Computer Science and Application Development
Computer Technology and Repair
Cosmetology
Culinary Arts/Restaurant Operations Management
Dental Assisting
Early Childhood Education
Electrical Trade and Alternative Energy
Engineering
Fashion Merchandising and Design
Heating, Ventilation & Air Conditioning (HVAC)
Law Enforcement
Licensed Practical Nursing
Marine/Motorsports Technology
Nurse Assisting
Pharmacy Technician
Plumbing and Heating
Professional Photography
Television, Video and Digital Film Production
Veterinary Assisting
Trade Electricity
Welding/Metal Fabrication
Work-Based Learning Programs

Offerings may be restricted based on program site location & enrollment

Support Services

READING SUPPORT PROGRAM

Grade 9 - 12

Students will be assigned to the Reading Lab on the basis of teacher referral, standardized tests, grades, and/or preliminary reading assessments. Emphasis will be placed on meeting individual needs in literacy skills within the content areas. The Reading Lab may also be available to students who have no particular reading deficiencies but who wish to improve their critical thinking skills and/or study techniques. The reading teacher and the student may develop individual programs.

ENGLISH AS A NEW LANGUAGE (ENL)

Miller Place High School offers a comprehensive English as a New Language (ENL) Program. Students from a variety of different language backgrounds are provided the appropriate instructional services to enable them to participate as fully as possible in the school program. Generally speaking, courses are offered on a non-credit (audit) basis initially, progressing into a pass/fail option as the student improves, and ultimately move towards regular grading practices and procedures. In addition, the ENL classes can count as an English course (with appropriate credit) for graduation purposes. All rules, practices, and polices mandated by New York State will be followed for ENL instruction.

SPECIAL EDUCATION

Grades 9 - 12

Students who have been identified by the Committee on Special Education (CSE) as having a disability or special needs will be provided with appropriate special education services in the least restrictive environment, in accordance with the needs of the student as described in their Individualized Education Program (IEP).

Certain students in the program may be exempted from the World Language requirement in Middle/High School, provided their disability is so severe as to prevent them from participation in the program. This exemption would be valid only in cases where the CSE, in reviewing all possible evaluative information, recommends it to be appropriate, and indicates it on the student's IEP. The school administrator would be informed of the recommendation by the CSE so as to avoid scheduling difficulties and maintain consistency with the student's program.

Transition services are provided for all students in the program to prepare each student for transition from high school to college or the work force for children fourteen years and older. Part of the IEP includes an Individual Transition Plan (ITP), which focuses on the student's career interests and goals and the services that will be provided to lead to employment and/or further education after high school. The student, parents, or guardian, teachers, and counselors, and, when appropriate, service providers should all contribute to the IEP.

Board of Education Members

Ms. Lisa Reitan, President
Mr. Bryan Makarius, Vice President
Mr. John Galligan, Trustee
Ms. Andrea Spaniolas, Trustee
Ms. Johanna Testa, Trustee

Central Office Administration

Seth Lipshie, Superintendent of Schools
Susan Craddock, Assistant Superintendent
Colleen Card, School Business Official
Kurt Roth, Administrator for Instruction and Data Reporting
Nicholas Corleto, Curriculum Specialist for Math and Science
Matthew Nicoletti, Curriculum Specialist for Humanities
Evan Curran, Curriculum Specialist for Elementary
Jeremy Koch, Administrator for Pupil Personnel Services
Ron Petrie, Administrator for Athletics, Physical Education, Health and Intramurals
Barbara A. Weir, Director of Technology
Wayne Casey, Director of Facilities
Donald Pearce, District Treasurer
Patricia Morbillo, District Clerk

School Administration

Kevin Slavin, Principal
Sean White, Assistant Principal/Director of Guidance
Debra White, Assistant Principal
Domenico Lo Re, Dean of Students