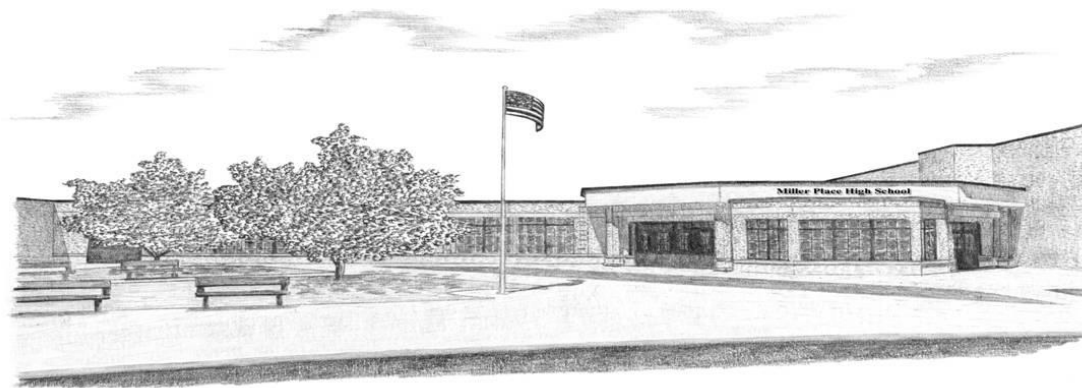


MILLER PLACE HIGH SCHOOL

Course Offering Guide



SCHOOL YEAR
2022-2023

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USING THE CATALOG FOR PROGRAM PLANNING

The decisions you make about the courses you take in high school will affect you for the rest of your life. The teaching faculty, your school counselor, the school administrators, and your parents can all advise you in the course selection process, but you should be fully involved in the final decision and ready to bear the responsibility for that decision. 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 your plans for the future.

Your future career path or school plans should influence your course selections in senior high school. Talk about your future with your parents, school counselors, and teachers. In your junior year, visit the career center in the guidance office, job sites, and a college campus or two. 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, changes in Regents requirements and changes in our district's course offerings; let them help you!

| Counselor | Students with the last Name |
|-----------------------|-----------------------------|
| <i>Ms. J. Fiumano</i> | A ⇔ D |
| <i>Mrs. M. Gallo</i> | E ⇔ K |
| <i>Mr. J. Scherer</i> | L ⇔ P |
| <i>Ms. J. Hayden</i> | 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 Mrs. Sandra Wojnowski, Administrator for Pupil Personnel Services, 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 to be 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 must 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 after the completion of the first progress report period. 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.

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 protecting 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 | <i>4 years college preparatory</i> |
| Math | <i>4 years recommended for competitive colleges</i> |
| Science | <i>4 years preferred with at least two-laboratory course. (Many require 3 years or more of a laboratory-oriented science.)</i> |
| World Language | <i>3-4 years of one language desired for competitive colleges</i> |
| Social Studies | <i>4 years minimum</i> |

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

| 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 | <i>4 years college preparatory</i> |
| Math | <i>4 years required</i> |
| Science | <i>4 years including Chemistry</i> |
| Social Studies | <i>4 years minimum</i> |
| 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.

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. The NCAA code is 9999 on the SAT and ACT registration.
2. It authorizes the Eligibility Center to send your academic information to all colleges that request your eligibility status.

The preferred method is to register online. Go online to 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. Then follow instructions to complete the transaction. Print a copy of your completed registration form and both Copy 1 and Copy 2 of the transcript release form. Sign the transcript release forms, and give both to your high-school counselor.

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
Class of 2018-2027

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

*Note: *Local Diploma option is only available to classified students with disabilities.*

***Students acquiring 5 units in Art, Music, Business, Technology or Vocational Education may be exempt. One unit of LOTE 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 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 LOTE 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 – effective 10/31/12
 - 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 ≥ 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 (CDOSCC) as explained in item number 6 below:

6. **Career Development and Occupational Studies Commencement Credential (CDOSCC)**

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
Effective 4/23/13

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 (<i>at least 2 lab courses</i>) | 3 | | | | | |
| | Languages other than English (LOTE) | 1 | | | | | |
| | Health | .5 | | | | | |
| | Music/Art | 1 | | | | | |
| | Physical Education | 2 | (.5) | (.5) | (.5) | (.5) | |
| Computer Applications Course | .5 | | | | | | |
| <i>Total Core</i> | | 19.5 | | | | | |
| ELECTIVE UNITS OF CREDIT | Elective Option #1 | Languages other than English (LOTE) | 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 | | Languages Other than English Checkpoint "A" Examination | >65 | | |
| | Algebra Regent Examination | ≥ 65 | | Languages Other than English 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? | | | |
| | 2 nd Science Regent Examination | ≥ 65 | | Credential? | | | |
| | 3 rd Science Regent Examination | ≥ 65 | | Mastery in Math/Science/Both? | | | |

Course Selection Form for the 2022-23 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)

SC108 Earth Science (SC108L Lab)

SC109 Living Environment (SC109L Lab)

SC109H Living Environment Honors (Lab)

SC110 Chemistry (SC110L Lab)

SC110H Chemistry Honors (SC110LH Lab)

SC110G General Chemistry

MATH

MATH109N Principles of Geometry

MATH120 Geometry w/lab

MATH109CCH Geometry Honors

MATH110N Foundations Algebra 2

MATH130 Algebra 2 w/lab

MATH 110CCH Algebra 2 Honors

WORLD LANGUAGES

LOTE113 Spanish III

LOTE133 Italian III

LOTE153 French III

REQUIRED HEALTH

HE111A Health 10 (Alt. Day)

BUSINESS

BU101 Introduction to Accounting

BU210 Introduction to Business & Finance

BU214 Sports Marketing

BU512 Wall Street Investments

AP CAPSTONE

CA101 AP Capstone Seminar

ART

UA109 Studio in Art

UA110 Drawing & Painting

UA111 Illustration & Design

UA113 Sculpture

UA210 Drawing & Painting II

UA910 Computer Generated Art

UA915S Digital Photography

TECHNOLOGY

UA809 Design & Drawing for Production

UA909 Computer Aided Design (CAD)

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

ENG515S Journalism

SS513S Criminal Justice

SS514S Psychology

SS524S Sociology

SS534 Long Island Past, Present and Future

MISCELLANEOUS

LUNCH Lunch

NOLUNCH No Lunch

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 2022-23 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)

SC108 Earth Science (SC108L Lab)

SC109 Living Environment (SC109L Lab)

SC110 Chemistry (SC110L Lab)

SC110H Chemistry Honors (SC110LH Lab)

SC110G General Chemistry

SC111 Physics (SC111L 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

MATH

MATH109N Principles of Geometry

MATH120 Geometry w/lab

MATH109CCH Geometry Honors

MATH110N Foundations Algebra 2

MATH130 Algebra 2 w/lab

MATH110CCH Algebra 2 Honors

MATH112 Finite Math

MATH114 Intermediate Algebra

MATH115 Pre-Calculus

MATH211 Pre-Calculus Honors

MATH312 Advanced Placement Statistics

MATH915 Data Science & Statistics

WORLD LANGUAGES

LOTE113 Spanish III

LOTE133 Italian III

LOTE153 French III

LOTE214 Spanish IV

LOTE234 Italian IV

LOTE254 French IV

MISCELLANEOUS

LUNCH LUNCH

NOLUNCH No Lunch

TECHNOLOGY

UA809 Design & Drawing for Production

UA909 Computer Aided Design (CAD)

UA815 Principles of Engineering

UA820 Robotics Engineering Design

BUSINESS

BU101 Introduction to Accounting

BU201 College Accounting

BU210 Introduction to Business & Finance

BU214 Sports Marketing

BU512 Wall Street Investments

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

UA910 Computer Generated Art

UA915S Digital Photography

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

ENG515S Journalism

ENG913S SAT English Preparation (*Alt Day Semester*)

MATH913S SAT Math Preparation (*Alt Day Semester*)

HE215S Teenage Issues & Responsibilities

HE220S Sports Medicine I (*Semester*)

HE221S Sports Medicine II (*Spring Semester*)

S316 Advanced Placement Psychology

SS513S Criminal Justice

SS514S Psychology

SS524S Sociology

SS534 Long Island Past, Present, Future

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 2022-23 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)

SC110 Chemistry (SC110L Lab)
 SC110H Chemistry Honors (SC110LH Lab)
 SC110G General Chemistry
 SC111 Physics (SC111L Lab)
 SC309 Advanced Placement Biology
 SC310 Advanced Placement Chemistry
 SC311 Advanced Placement Physics 1
 SC501S Marine Science
 SC502S Astronomy
 SC511S Forensic Science
 SC512S Human Anatomy & Physiology
 SC521 College Forensics
 SC534 Scientific Computing

MATH

MATH110N Foundations Algebra 2
 MATH110CC Algebra 2 w/lab
 MATH110CCH Algebra 2 Honors
 MATH112 Finite Mathematics
 MATH114 Intermediate Algebra
 MATH115 Pre-Calculus
 MATH211 Pre-Calculus Honors
 MATH116 Calculus
 MATH312 Advanced Placement Statistics
 MATH322 Advanced Placement Calculus
 MATH915 Data Science & Statistics

TECHNOLOGY

UA809 Design & Drawing for Production
 UA909 Computer Aided Design (CAD)
 UA815 Principles of Engineering
 UA820 Robotics Engineering Design

MISCELLANEOUS

ARRIVE Late Arrival
 DISMISS Early Dismissal
 LUNCH Lunch
 NOLUNCH No Lunch

WORLD LANGUAGES

LOTE113 Spanish III
 LOTE133 Italian III
 LOTE153 French III
 LOTE214 Spanish IV
 LOTE215 Spanish V
 LOTE234 Italian IV
 LOTE235 Italian V
 LOTE254 French IV
 LOTE255 French V
 LOTE315 Advanced Placement Spanish
 LOTE355 Advanced Placement French
 LOTE335 Advanced Placement Italian

BUSINESS

BU101 Introduction to Accounting
 BU201 College Accounting
 BU210 Introduction to Business & Finance
 BU214 Sports Marketing
 BU512 Wall Street Investments
 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
 UA910 Computer Generated Art
 UA915S Digital Photography

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
 ENG515S Journalism
 ENG912 Film Study
 HE215S Teenage Issues & Responsibilities
 HE220S Sports Medicine I
 HE221S Sports Medicine II
 SS316 Advanced Placement Psychology
 SS513S Criminal Justice
 SS514S Psychology
 SS524S Sociology
 SS534 Long Island, Past, Present, Future

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 & Painting 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.

Business

COMPUTER INTERNET LITERACY B

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 and 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. The alternate day format for this course requires A to be taken in one year and B the following school year.

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, explore a variety of careers and enhance their financial literacy. Some of the skills the students will discover are how to apply for a job, budget their finances, reconcile a checkbook, 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, 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 course stresses the principles and procedures needed to build a beginning foundation in accounting fundamentals. 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. 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 Business as a major 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

College Credits (optional tuition fee – cost TBD)

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 SUNY Farmingdale.

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 Microsoft 2013 WORD, EXCEL, ACCESS, POWERPOINT. Students will also be introduced to basic HTML programming. 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 tradeshow, 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

English 9R begins students on a journey of self-discovery through the lens of the hero. 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

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

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: 90 or higher average in English 9 Honors, 95 or higher average in English 9, or Departmental approval

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 III (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

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 90 or higher in English 10H, 95 or higher in English 10, or Departmental approval

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 90 or higher in English 11AP, 95 or higher average in English 11, or Departmental approval

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

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

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 they 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

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: Isaac Asimov, Arthur C. Clarke, Robert Heinlein, Ray Bradbury, Michael Crichton, Edgar Allan Poe, Stephen King, J.R.R. Tolkien, C.S. Lewis, R.K. Rowling, Clive Barker, and Flannery O' Connor. Students will write rhetorical analysis papers, arguments, their own short story, and maintain a course content scrapbook.

THE POETRY OF ROCK AND ROLL (Spring Semester)

1/2 Credit – Semester

Grade 12

Prerequisites: English 11 or 11 AP

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, expository writing, and performances.

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

1/2 Credit – Semester

Grade 12

Prerequisites: English 11 or 11 AP

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

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

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.

SAT ENGLISH PREPARATION

¼ Credit (Semester Alternate Day)

Grade 11

Note: Course must be taken with SAT MATH PREPARATION course

The objective of this course is to assist students with preparation for the SAT Critical Reading and Writing sections of the test. Topics will include: Diction analysis, etymological development (root, prefix, and suffix stems/blends and word derivations), vocabulary building with synonyms, test-taking strategies for all of the reading and writing skills testing components, critical textual analysis, question recognition/"types", recognizing tone and tonal shifts, effective time management, and various approaches to Part I's 25 minute essay.

Health

HEALTH

1/2 Credit (Alt. Day)

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

This Common Core 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 Common Core Regents examination in June.

PRINCIPLES OF GEOMETRY

1 credit

Prerequisite: Algebra 1

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 CC. 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 1

Required: Graphing Calculator

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 Common Core Geometry Regent Examination in June. Satisfactory achievement on the Common Core 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 90 or greater in Algebra I, or Departmental approval

Required: Graphing Calculator

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.

FOUNDATIONS OF ALGEBRA 2

1 credit

Prerequisite: Geometry

Required: Graphing Calculator

This non-regent course is intended for students who wish to strengthen their skills prior to the Common Core Algebra II course. Students would take this course at the culmination of Common Core 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

The purpose of this course is to satisfy the Algebra II requirement of the Common Core Mathematics 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 Common Core Algebra II Regents Examination in June. Satisfactory achievement on the Common Core 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

Required: Graphing Calculator

This is third course in the high school honors mathematics sequence. Algebra 2 CC will satisfy the Algebra II requirements of the Common Core Mathematics 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 Common Core Algebra II Regents Examination in June. Satisfactory achievement on the Common Core 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

Required: Graphing Calculator

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

Required: Graphing Calculator

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

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.

DATA SCIENCE AND STATISTICS

1 Credit

Grade 11 & 12

Prerequisite: Geometry

This data science course will provide students with opportunities to understand the data science process of asking questions, gathering, and organizing data, modeling, analyzing, and synthesizing, and communicating. Students will work through this process in a variety of contexts. Students learn through making sense of complex problems, then through an iterative process of formulation and reformulation coming to a reasoned argument for the choices they will make. In this course students will learn to understand, ask questions of, and represent data through project-based units. The units will give students opportunities to be data explorers through active engagement, developing their understanding of data analysis, sampling, correlation/causation, bias and uncertainty, modeling with data, making and evaluating data-based arguments, and the importance of data in society. At the end of the course, students will have a portfolio of their data science work to showcase their newly developed knowledge and understanding.

INTERMEDIATE ALGEBRA

1 Credit

Prerequisite: Geometry

Required: Graphing Calculator

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.

FINITE MATHEMATICS

1 Credit

Grade 12

Prerequisite: Algebra 2

Required: Graphing Calculator

Finite mathematics is an application-oriented course for students considering majoring in business management, economics, life sciences, or social sciences. Strong algebraic skills as well as a familiarity with the abilities of a graphing calculator are highly recommended. Familiar topics such as systems of equations, systems of inequalities, probability, exponential functions and logarithmic functions will be expanded upon. New topics such as logic, matrices, linear programming, sequences and an extensive study of the mathematics of finance will be introduced. Students will learn how to calculate loan payments and all aspects of having a mortgage including when to re-finance it. The course will also study all aspects of a retirement account including calculating deposits before retirements and calculating possible regular withdrawals after retirement.

ADVANCED PLACEMENT CALCULUS AB/BC

1 Credit

Grade 12

Prerequisite: A final course average of 85 or higher in Pre-Calculus Honors or a 90 or higher in Pre-Calculus for AB. 90 or higher in Pre-Calculus Honors for BC, or Departmental approval.

Required: Graphing Calculator

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

The advanced placement program is a cooperative educational endeavor with the College Entrance Examination Boards. This course is intended for those students who have excelled in Regents Mathematics. This is a full year course, which emphasizes exploratory analysis, planning studies, probability and simulation, and statistical inference. 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.

SAT MATH PREPARATION

¼ Credit (Semester Alternate Day)

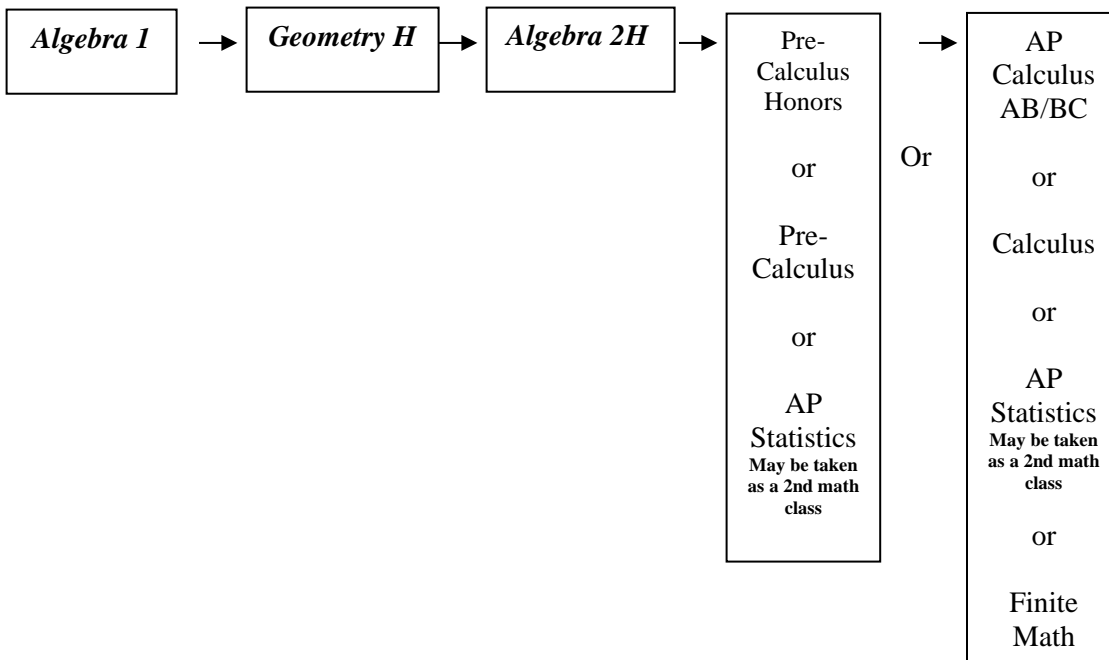
Grades 11

Note: Course must be taken with SAT ENGLISH PREPARATION course

The objective of this course is to assist students with preparation for the SAT Math sections. Course includes review of all Math topics and skills needed for the test, test format and scoring, valuable study advice and test-taking tips as well as in class problem solving and strategizing. Students will set a realistic goal and learn how to achieve it.

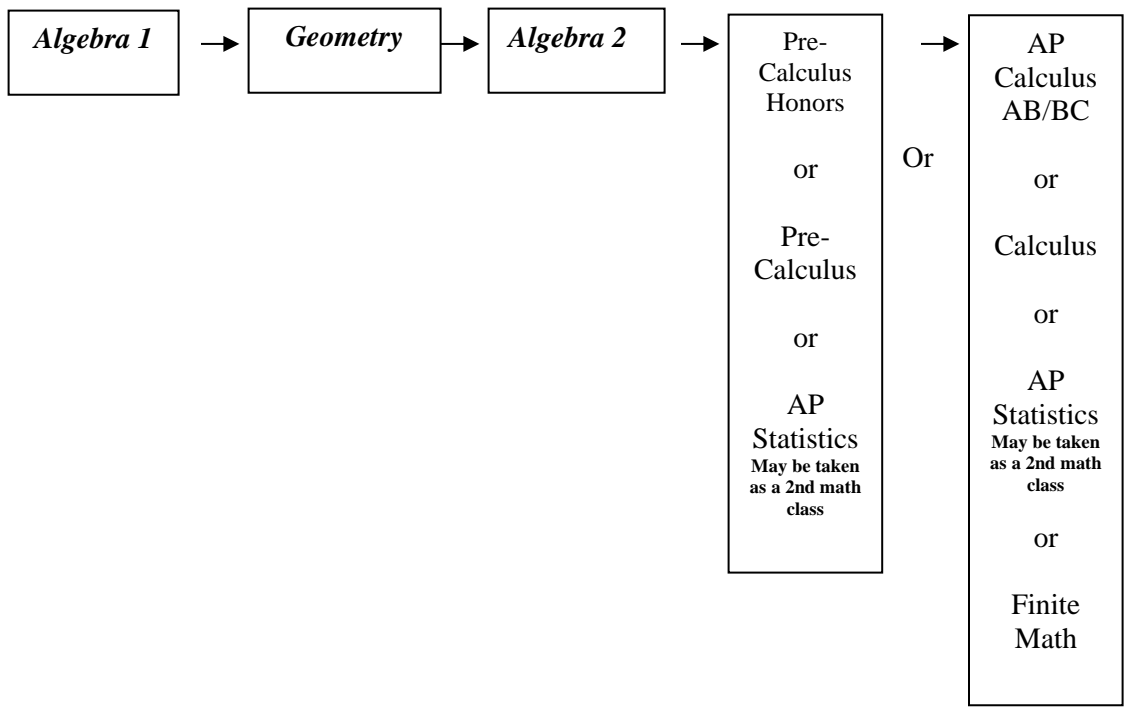
Mathematics Course Progression Options

Honors Progression



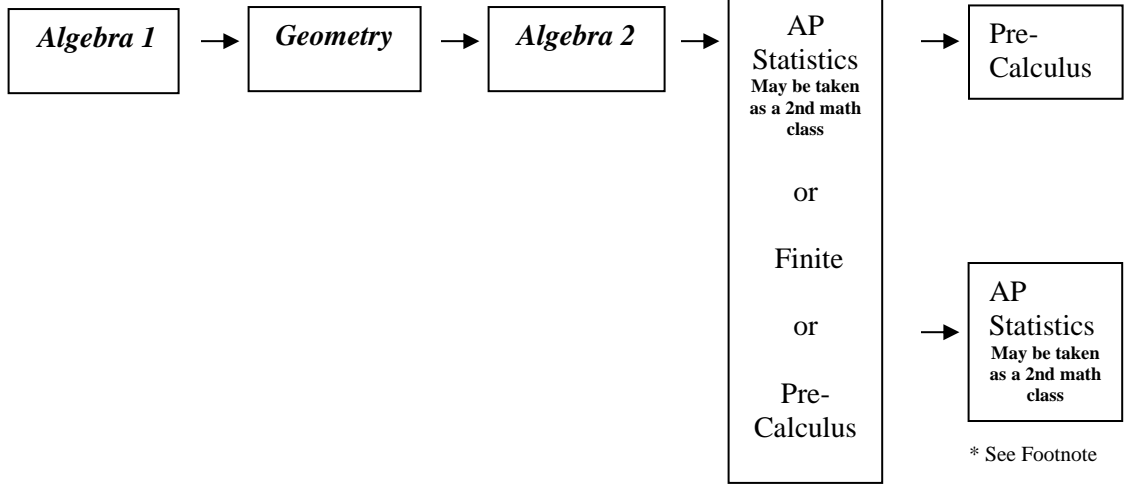
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Option 1



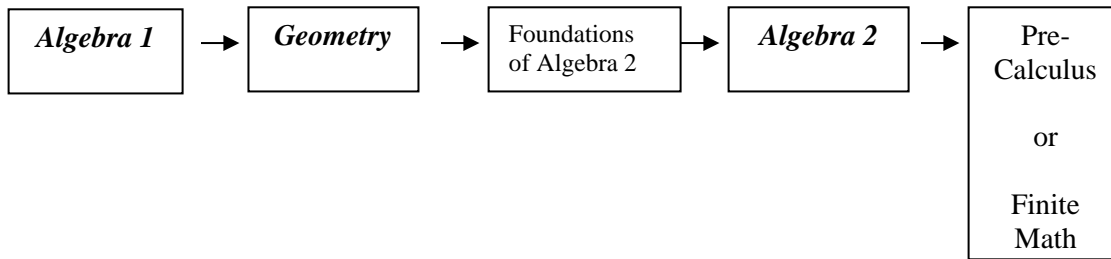
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Option 2



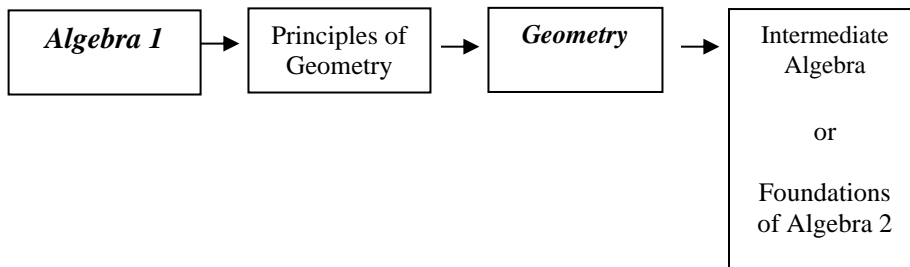
* See Footnote

Option 3



* See Footnote

Option 4



* See Footnote

*The fifth math unit of each progression is based upon the successful completion of Integrated Algebra in 8th Grade

Italicized Math courses culminate in a Math Regents Examination.

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 qualify 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.

PHYSICAL SETTING –CHEMISTRY HONORS

1 Credit with lab

Grades 9 – 12

Prerequisite: 85 or higher course average in Living Environment Honors course, 90 or higher course average in Living Environment, or Departmental approval

Chemistry is the study of matter and all of its properties. It is a foundation course for all advanced sciences especially as applied to industry, environment and society. Yet, it also provides a basic knowledge set important for the most basic concepts needed for everyday life in our world. This is a lab heavy course with field experiences geared to allow student learning through hands on inquiry and discovery. 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. All students will develop portfolios of experiences throughout the year. Exams and laboratory reports are written, with very few fill-in or multiple choice type questions. This course will serve as a precursor to students interested in taking AP Chemistry as an upperclassman.

GENERAL CHEMISTRY

1 Credit

Grades 11 – 12

Prerequisite: Two Lab Sciences

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 be involved in a variety of laboratory investigations and will take a final exam in June. This course meets five periods per week for the full year.

PHYSICAL SETTING – PHYSICS

1 Credit with lab

Grades 11 - 12

Pre-requisite: Three Lab Sciences or Departmental approval

Physics is the study of the fundamental laws that determine the workings of the universe. Students enrolled in Physics investigate physical phenomena and the theoretical models that are useful in understanding the interacting systems of the physical world. Although conceptual understanding of the subject will be emphasized, many practical applications are studied. And, although mathematical relationships will be used, they will not be the focus of the course. Through minds-on activities, hands-on experiments, and demonstrations in an interactive classroom, students will learn how to classify the wide variety of phenomena around us within the framework of the basic physical laws. Students will also connect these laws to everyday life. The course explores the unifying themes of physics, including such topics as force, motion, energy, wave phenomena, electricity, electromagnetism, atomic and nuclear physics, etc. The study of physics is a valuable part of the general education of any student because learning to examine the parts of a problem in order to find a valid solution will be useful throughout a person's life, and is especially good preparation for the challenges ahead as a college student. Classroom activities will include laboratory experimentation, classroom discussions/lectures, readings, and assessment activities.

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.

*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 Living Environment Honors, 90 or higher in Living Environment and 85 or higher in Honors Chemistry or 90 average in Chemistry, or Departmental approval

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

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

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

This elective course is designed to provide the student with the opportunity to learn about the various parts of the human anatomy and how they serve to support the functions of life. Laboratory experiences, text based and interactive activities provide student learning in the following topics: the major body systems, how the body systems work together to provide homeostasis, body tissues, the skeletal, muscular and nervous systems and body functions in the healthy and diseased states. Learn how to identify different tissue types in the body and differentiate between normal and cancerous cells. Look into the world of muscular contraction and how the muscles and bones work together to make the body move as well as investigate sports related injuries and treatment. Lastly; learn about the parts of the brain and how they function along with the nervous system and other systems of the body. This course will benefit those students who are interested in a career in the health care industry.

MARINE SCIENCE

1/2 Credit Fall or Spring Semester Grades 11 - 12

Prerequisite: Two Regents Science

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

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

This course is focused upon the application of scientific methods and techniques to crime and law. Recent advances in scientific methods and principals 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 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

*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.*

Social Studies

GLOBAL HISTORY & GEOGRAPHY I

1 Credit **Grade 9**

Prerequisite: Social Studies 8

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.

ADVANCED PLACEMENT AP WORLD HISTORY PART I

1 Credit **Grade 9**

Prerequisite: Placement based on achievement in Social Studies 8 (course average of 95 or higher), or Departmental approval

*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 II or Global History and Geography II. This course satisfies the first year of the two-year required course of study in world history. **There is no Advanced Placement exam associated with this course.***

GLOBAL HISTORY & GEOGRAPHY II

1 Credit **Grade 10**

Prerequisite: Global History & Geography I

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 PART II

1 Credit **Grade 10**

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

*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

*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 AMERICAN 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

*This college-level course emphasizes major themes of American history from the founding of the first colonies to the present. 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

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

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

*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.***

Social Studies Electives (Do not satisfy the 12th grade requirement)

CRIMINAL JUSTICE

1/2 Credit

Grades 10-12

Prerequisite: None

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)

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)

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

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

*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.***

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.

ROBOTICS ENGINEERING DESIGN

1 Credit

Grades 11-12

*This course leverages the “coolness” of robotics, and the excitement of head to head competition to inspire and engage students. Students will walk through the engineering design process and build a mobile robot to play a sport-like game. During this process they will learn key **STEM** principles, and robotics concepts. At the culmination of this class, they will compete head-to-head against their peers in the classroom. This modular and project-based curriculum teaches the engineering design process in an engaging, hands-on manner to help teachers challenge, motivate, and inspire their students. By moving students through an actual engineering project, students quickly understand the relevance of what they are learning. The curriculum is created to ensure that students with varying learning styles and levels can accomplish the lesson goals. No prior robotics experience is required; beginners are able to advance sequentially through the units to gradually increase their knowledge and skill level. ***Students have the option of applying for 3 college credits through SUNY Farmingdale’s State College’s University in High School program for this course. The approximate cost is \$140.***

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

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, FRENCH II, ITALIAN II

1 Credit

Prerequisite: Spanish I, French I, Italian I

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, FRENCH III, AND ITALIAN III

1Credit

Prerequisite: Spanish II or French II or Italian II

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, FRENCH IV, ITALIAN IV

1 Credit

Prerequisite: Spanish III or French III or Italian III

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 V, FRENCH V AND ITALIAN V

1 Credit

Prerequisite: Spanish IV or French IV, Italian IV

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).

ADVANCED PLACEMENT SPANISH, ITALIAN, & FRENCH

1 Credit

Prerequisite: Spanish IV, Italian IV, French IV: Minimum average of 90% in previous language course, Departmental approval & summer assignment

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.

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 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

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 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

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.

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 ELIAAT/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.
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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 After-Market Accessory Installation
Automotive Technology
Aviation
Barbering
Carpentry/Residential Construction and Home Improvement
Certified Personal Trainer
Clinical Medical Assisting
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
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 SECOND LANGUAGE (ENL)

Miller Place High School offers a comprehensive English as a Second 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 policies mandated by New York State will be followed for ESL 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 foreign 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.

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