

Curriculum and Course Offering Guide

Babylon Jr-Sr High School

2016-2017

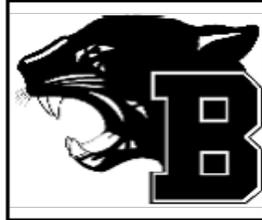


Table of Contents

General Information:

Attendance Policy	3-5
Special Education Department.....	5
Counseling Center	6
Scheduling Process	8
Summer School	8
Graduation Requirements	9
Community Service Diploma Endorsement	10
Library/Media Center	10
BOCES-CTE	11
Course Offerings	11
Attendance Regulations	11
Credit Policy	11
Certificates of Completion	12
Honor Societies Membership Criteria.....	12

Course Offerings:

English Department	13
Fine and Performing Arts Department	17
Art.....	17
Music.....	19
Theatre.....	21
World Languages Department	23
Math Department	28
Physical Education Department	34
CTE (Practical Arts)	35
Business.....	36
Technology.....	39
Family and Consumer Sciences	41
Science Department	44
Social Studies Department	49

Vol. 46 February 2016

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PRINCIPAL'S MESSAGE

Dear Parents and Students:

This publication is provided to assist in course selection for the 2016-2017 school year. It is a valuable resource which represents our best effort yet to give students and parents information that will assist you in making appropriate choices by providing brief program and course descriptions, prerequisites, and other information related to this process.

The following considerations should be kept in mind during the planning process.

- READ the curriculum guide carefully.
- REVIEW the list of graduation requirements and determine which requirements have been met and which courses need to be taken next year.
- Students should COLLABORATE with parents and teachers about course selections and appropriate academic levels.
- CHOOSE courses that align with your goals for the future. Course selection represents a commitment on the part of the student and parent to complete the schedule of classes chosen.

As you move through the scheduling process, please use this time wisely to work in partnership with the school staff to ensure your success. Plan your academic program to move you toward the future you want for yourself. Good luck with your course selections!

Sincerely,
Al Cirone
High School Principal

EQUAL OPPORTUNITY: It is the policy of the Babylon Union Free School District not to discriminate on the basis of sex, race, religion, creed, national origin or handicap, as required by state and federal law. Inquiries regarding compliance may be directed to Mr. Daniel D'Amico Administrator for Curriculum and Construction and Compliance Coordinator.

Attendance Policy

I. *Attendance/Grade Policy*

Students will be permitted no more than 20 days of absence for a full-year course or 10 days of absence for a half-year course. Students who do not meet this attendance requirement in accordance with the terms of this policy will not receive academic credit for the class provided they have not earned a passing grade.

A. *Absences*

All unexcused absences count in determining if a student has exceeded the maximum amount of absences allowed.

B. *Absences caused by lateness to class*

An unexcused lateness of more than 15 minutes, will be recorded as one full absence

Three excused lateness' of more than 15 minutes, will be recorded as one full absence

C. *Class cutting*

A class cut counts as an unexcused absence. In addition, penalties for cutting class remain as stated in the discipline procedure already in effect.

Excused and Unexcused Absences

Excused absences are defined as absences due to personal illness, illness or death in the immediate family, impassable roads or severe weather, religious observance, quarantine, required court appearances, attendance at health clinics, approved college visits, approved cooperative work programs, military obligations, music lessons, school sanctioned field trips and sporting events, or such other reasons as may be approved.

All other absences (e.g., class cuts, undocumented absences and tardiness, unapproved early leaves) are considered unexcused absences.

All absences must be accounted for. It is the parent's responsibility to notify the school office on the morning of the absence or tardiness, and to provide a written excuse upon the student's return to school.

II. *Procedure - Grades 7-12*

A. *Stage 1*

When a student has reached the 7th absence in a full-year course or the third (3rd) absence in a half-year course, the teacher will notify the attendance office, which will contact the parent/guardian by letter. A conference will be arranged with the student and school administration.

B. *Stage 2*

When a student has reached the 14th absence in a full-year course or the seventh (7th) absence in a half-year course, the teacher will notify the attendance office, which will contact the parent/guardian by letter. A conference will be arranged with the student, parent and the Attendance Review Team.

The Attendance Review Team

The Attendance Review Team is a process to assist students and parents with attendance and behavior problems. The Attendance Review Team is an effort to bring together multiple resources to assist families with attendance, truancy and behavior issues so that students will stay in school, attend school regularly and graduate.

The Team

The Attendance Review Team is composed of the following BHS staff members: principal, administrator(s), school counselor, school psychologist, school social worker, school nurse and teachers. Other resources available to the team: district level support staff, law enforcement personnel, children and family services, mental health services, and community counseling agencies. The team works collaboratively to assess the problem and recommend alternative solutions to alleviate circumstances that contribute to specific attendance, behavior problems, and/or truancy.

Interventions

The Attendance Review Team process includes interventions that pupils and families recognize as supportive rather than punitive or judgmental. These interventions help the pupils and families select services and resources to address school attendance and/or behavior problems. Possible interventions may include:

- Conduct teacher conferences and Rapid Response sheets to discuss the student's specific strengths and needs.
- Look for patterns of behavior or attendance problems within the school and with individual school staff.
- Observe the student in the classroom.
- Change the student's schedule and/or instructor.
- Determine if there is a health problem that may be interfering with the student's learning.
- If social/emotional or behavioral issues are preventing a student from attending school, ask for an assessment from a school counselor or school psychologist. This person can then make a referral to the student's health care provider or to a community-based mental health resource.
- Use alternative educational programs, such as flexible class scheduling (early/late classes), career technical education (including work experience), etc., when needed.
- Student-Parent Contract - requiring student to attend school every day.
- Requiring that a doctor verify the student's future absences.
- Require participation in school extra help or tutoring programs.
- Requesting assistance from other county agencies and programs when needed.
- Place responsibility for verification of excessive excused absences for illness on parents and students.
- Use bilingual aides to contact parents with limited English-speaking ability and send out school attendance notification letters in the language appropriate to the family.
- Make home visits concerning student absences if parents/guardians cannot be reached by telephone.
- Refer students with frequent absences to a counselor, administrator, or school social worker to diagnose the problem and recommend solutions to alleviate the circumstances that are contributing to the truancy.
- Initiate attendance make-up classes conducted before and after-school.
- Initiate a "peer mediator/mentor" system in which older high school students with good attendance are permitted to assist younger students on a weekly basis.
- Personalize relationships between children and attendance office personnel; ask office aides, clerks, and secretaries to make individual contact with high-risk students on a daily basis.
- Develop an "Adoptee Program" in which teacher volunteers make weekly informal contacts with high-risk students.
- Refer students and parents to outside agencies for counseling.
- Arranging parenting classes for parents.
- Coordinating assistance from volunteers to help student's get to school.

- Directing parents to escort student to school daily.
- Referral to community service volunteer programs.
- weekly/daily sign-in sheets
- Weekly progress reports
- Behavioral contract – referral to Student Review Team
- Classroom strategies – referral to Instructional Support Team
- Attendance or credit recovery programs
- Drug and alcohol abuse prevention and intervention
- Homeless service
- Teen pregnancy services
- Gang intervention services
- Alternative education programs
- Health-care services
- Tutoring
- Transportation services

C. Stage 3

After the 10/20 unexcused absences, course credit will be denied. Students denied credit for a course must remain enrolled in the course if they wish to attend summer school. Students may not exceed thirty (30) absences in a full-year course and fifteen (15) absences in a half-year course if they are to enroll in summer school.

A certified letter will be sent to the student and parents/guardians informing them that credit has been denied after exceeding the allowable absences and also outlining the appeals procedure.

Special Education Department

The Special Education Department is committed to providing specially-designed individualized or group instruction, special services or programs to meet the unique needs of students with disabilities. For school-age students, special education services and programs may include supplementary services provided in the regular class, consultant teacher services, related services, resource room programs, special classes, home and hospital instruction, placement in an in-state or out-of-state approved private schools and/or 12-month special services and/or programs. The Committee for Special Education considers the student's strengths, areas of challenge, parental concerns, individual evaluation outcomes, results of state or district wide tests or assessments and any unique needs related to the student's disability.

Academic Intervention Services

Academic Intervention Services (AIS) provides support to students as required by New York State. Academic Intervention services consist of planned additional instruction that supplements regular classroom instruction that enables our students to meet the New York State Learning Standards. Babylon High School offers Academic Intervention services to our students for many subjects. A team of school-based educational professionals (IST) determine the academic intervention needs of students in the school, develop targeted strategies for assessing students, and determine methods for dealing with academic problems. Educators monitor on an ongoing basis whether these methods are resulting in increased learning and achievement. These services include two components:

*additional instruction that supplements the general curriculum (regular classroom instruction),

*progress monitoring: regular progress checks, further assessments, and meetings with the classroom teacher and Instruction Support Team to adjust instruction, as necessary, and/or

*student support services needed to address barriers to improved academic performance.

Counseling Center

School Counselors are committed to helping all students strive for and achieve their academic and personal potential and to do that, we will spend time getting to know each student as the unique individual they are. School counselors responsibilities include, but are not limited to:

- Counseling students in developing academic, personal, social and college/career plans, goals and skills
- Advocating for students' academic, social, personal, and emotional needs
- Participating in parent - teacher team meetings
- Providing crisis intervention
- Member of CSE, IST, and 504 teams
- Coordinating and administering PSAT and AP testing
- Informing and guiding students on registering for the SAT and ACT
- Presenting classroom instruction on course selection, college preparation/application, career exploration and graduation requirements
- Presenting grade level parent/guardian workshops on the financial aid application process, PSAT score report workshop, and 9th grade orientation.
- Counseling students at-risk and exploring alternative programs
- Advising and registering new students
- Coordinating scholarship applications for seniors
- Serving as a liaison for students in alternative programs
- Assisting in Master Schedule development and implementation
- Verifying student diploma requirements and monitoring academic progress
- Coordinating Summer School registration
- Mandated reporters for Child Protective Services
- Serving as liaison with NCAA Eligibility Clearinghouse for student athletes
- Maintaining relationships with post-secondary institutions and staying current with post-secondary trends and policies
- Participating in professional development through professional memberships

COURSE LEVELS

Studies have shown that the rigor of a student's high school curriculum is the single best predictor of success in college. Admissions officers are not necessarily impressed by straight A's when they are all earned in easy courses. Many courses have a designation, as part of their description, indicating the level of the course: Regents (R), Common Core (CC), Advanced Courses, Honors (H), Accelerated (X), and Advanced Placement (AP). We also offer several dual enrollment college level courses.

Regents and Common Core Level: These courses are available to all students in high school. Instruction at this level meets New York State Regents Board of Education's course curriculum requirements.

Advanced Courses: Advanced courses are courses above and beyond those required for the Regents diploma.

Honors: Honors classes are open to selected students. These courses cover the required content for the respective grades with in-depth exploration and enrichment.

College Level: Babylon High School affords qualified students an opportunity to take college courses and earn college credit while learning in the high school environment. Students enrolled in these courses carry dual enrollment in the college program and in our high school. All courses carry credit that may be applicable toward a degree at other colleges and universities. To be eligible for college credit, students must complete the required registration and pay a college tuition fee.

Advanced Placement: AP courses offer students an opportunity to take a course taught on a college level. Both enrichment and college credit are available to the dedicated student. Intensive classroom work, independent study and research are an integral part of the program. Advanced Placement courses have the requirement that

each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee for the exam. The AP exam is administered in May and a five-point college-level scale is used for grading.

RANK AND WEIGHTING

Rank: Beginning with the Class of 2014, Babylon High School has adopted a policy of not ranking students on cumulative grade point average relative to their classmates.

Weighting: The final grade in all courses as they appear on the transcript is unweighted. At the completion of each year, a weighted grade point average (GPA) is determined. The weighted GPA is calculated by multiplying the final grade for each course by the appropriate course credit and weighting factor and then averaging the resulting grades. The weighting system is as follows:

<u>Course Type</u>	<u>Weighting</u>
Advanced Placement Courses	1.10
College Courses	1.10
Honors Courses	1.05
Advanced Courses**	1.025
Intro to Science Research	HS Credit
Science Research 1	1.025
Science Research 2	1.025
Science Research 3	1.05
Science Research 4	1.10

**Advanced Courses:

- Spanish/French 3, 4 and 5
- Pre-Calculus
- Algebra 2 CC
- Algebra for College
- Physics
- Sign Language 3

Valedictorian and Salutatorian: The Valedictorian and Salutatorian is determined by the weighted average of all courses taken through the seventh semester of high school. Eligible students must attend Babylon Junior Senior High School for a minimum of three full academic years prior to graduation.

Honor Roll/Principal's List: A student will be eligible for the Honor Roll if he/she achieves a minimum weighted average of 85 for the quarter. A student will be eligible for the Principal's List if he/she achieves a minimum weighted grade of 92 for the quarter.

Repeat Regents Exam Grades: By state regulation, a student is entitled to repeat any Regents exam in order to raise his/her examination grade. If a student retakes a Regents exam, only the higher score will be reported on the transcript. The new Regents exam grade will not affect the final course grade. In order to change a failing course grade, the course itself must be repeated. And both courses (the one that was failed and passed) will appear on the transcript.

SCHEDULING

Scheduling Process:

- In addition to grade level presentations, students will meet with their counselor to help plan their schedule, review graduation requirements, and discuss future plans and goals.
- Students and parents should review this curriculum guide and discuss course selections as well as electives. They should consider the recommendations of their present classroom teachers, seek the advice of their counselors, and obtain approval from their parents.
- Students will be asked to list their electives in order of their preference; however, we cannot guarantee that students will be able to enroll in their elective choices. Elective courses will become part of the master

schedule course offerings only when the minimum enrollment is met. The scheduling of required courses always takes precedence over electives.

- Teachers of academic courses will recommend the next grade level course placement.
- Course requests will be tabulated and students will be informed of the courses that do not run due to insufficient enrollment. If a course cannot be offered, students will be enrolled in one of their alternate selections.
- All students are expected to choose courses carefully during the course selection process. Schedules are planned according to student requests and course availability. Students are expected to abide by their choices.

Course Selection and Schedule Change Procedures: It is important for students and families to understand that course requests have a major impact on teacher scheduling; student sectioning; and budgeting for books, supplies, and teaching staff needed to deliver the curricular program. So that we can effectively plan to meet the needs of students, the last day of classes will be the deadline for making changes in courses selected for the school year. After this date, only schedule changes deemed necessary by the school will be made. Every effort will be made to honor student course requests. However, in the event of insufficient enrollment, staffing, or facility limitations, the administration reserves the right to cancel or limit the enrollment for courses publicized in the curriculum guide. It is expected that any student enrolling in a course will remain for its duration.

Add/Drop Policy: If the Principal determines that circumstances warrant a student dropping a course, the following will apply: For a course dropped during the first five weeks of school, no notation will appear on the student transcript. For a course dropped after week 5, a withdrawn passing (W/P) or a withdrawn failing (W/F) will appear on the student transcript.

SUMMER SCHOOL

If a student fails a course or a Regents exam, counselors will contact them by the close of school in June. Recommendations for summer school will be made at that time. Our summer school program is offered through Western Suffolk BOCES. The location of summer school is determined in the spring of each school year. Transportation to the Western Suffolk BOCES summer school program is **not** provided by the school district. Summer school may not be used for acceleration.

NEW YORK STATE REQUIREMENTS

GRADUATION REQUIREMENTS

Regents Diploma Required Course Credit	
English	4
Social Studies	4
Mathematics	3
Science	3
World Language	1
Art/Music	1
Health	0.5
Computer Course	0.5
Physical Education	2
Electives	3
TOTAL	22

Regents Diploma with Advanced Designation Required Course Credit	
English	4
Social Studies	4
Mathematics	3
Science	3
World Language	3
Art/Music	1
Health	0.5
Computer Course	0.5
Physical Education	2
Electives	1
TOTAL	22

Regents Diploma Required Regents Exams 5 Regents Exams Required (Passing Score of 65 and Above)
English Language Arts Exam
Algebra 1 Common Core Exam
Global History Exam
U.S. History Exam
One Science Exam: Earth Science or Living Environment or Chemistry or Physics
World Language Proficiency Exam -Checkpoint A

Regents Diploma with Advanced Designation Required Regents Exams 8 Regents Exams Required 2 WL Checkpoint Exams Required (Passing Score of 65 and Above)
English Language Arts Exam
Algebra 1 CC and Geometry CC and Algebra 2/Trigonometry CC Exams
Global History Exam
U.S. History Exam
Two Science Exams: 1. Living Environment 2. Earth Science or Chemistry or Physics
World Language Exams* -Checkpoint A -Checkpoint B

*Students with an IEP may be exempt from the foreign language requirement

Community Service Diploma Endorsement Program

This program recognizes the importance of student involvement in community service and encourages voluntary participation leading to an additional honor at graduation. Although this service is not a requirement, the school officially promotes student community service with formal acknowledgment. Acceptable community service will accumulate over a four-year period, be recorded on the student's high school record, and acknowledged in the form of a community service diploma endorsement at the time of graduation.

- ▶ Diploma Endorsement will be signified by "Distinction for Community Service" for those who qualify.
- ▶ "Acceptable Community Service" consists of any act on behalf of others or the community that contributes significantly to the good of others and the community. This service must also be connected to a formal service organization.
- ▶ Time requirement is a minimum of 40 hours of documented community service performed within the four-year period from 9th to 12th grade. The summer preceding 9th grade will count for the purpose of this program.
- ▶ The intent of this program is for the service to accrue over a period of four years.

A mission of Babylon Junior-Senior High School is to promote volunteer work and community service as an essential part of good citizenship.



Library Media Center

The Library Media Center serves the Babylon Junior Senior High School learning community and participates cooperatively with the district's elementary and intermediate schools. The mission of the Library Media Center is to provide students, staff and parents with the information technology literacy tools necessary to meet the demands of 21st Century learning and teaching. The main local objective of the Library Media Center's programming is to provide information technology resources and instruction in alignment with the curriculum goals established for students in grades seven through twelve. Integration of the Library Media Center's resources with content instruction is the main standard of support and service.

The LMC has seating for approximately 70 students. Print resources available for use and loan include over 16,000 books, a variety of academically relevant periodicals and two daily newspapers. Non-print resources, such as audiobooks, eBooks and visual materials are also available. Digital information for research support is available through the VRC (Virtual Reference Collection) which is a group of subscription databases providing digitized news articles, academic journal articles, video, podcasts, online reference materials and international newspapers. Both the VRC and the LMC eCatalog are available 24/7 to students, staff and parents from any computer with internet access. A great many of these databases are searchable in languages other than English in support of the diverse needs of our learning community. Books and other materials circulate to students for a two-week period and may be renewed, subject to demand. Orientation to the library is given to all entering students. Continuing instruction in the use of library materials and/or special reference skills, such as searching strategies, evaluation of websites, citing sources, and using databases for research, is given to all students through individual guidance and in conjunction with collaborative content instruction.

Eight computers are available for class assignments and research using the school network to access the internet, search our resources and use other information technology tools. The Library Media Center catalog is available at <http://babylon.follettdestiny.com> and is the access point for both our eCatalog and the Virtual Reference Collection. The Library Media Specialist creates support materials such as pathfinders, online assignments, how to videos, and webquests in support of classroom instruction and student research. The Babylon High School Research Paper Style Guide is available at www.babylonschools.org/our_schools/jshs, under "Student Resources," and provides students with guidance in citation creation. Students are encouraged to seek assistance from the Library Media Specialist at any appropriate opportunity and may arrange for individual information technology instruction as needed.

Career and Technical Education

Lewis A. Wilson Technological Center

www.wilsontech.org

Surf Tech: Students in grades 9 and 10 can try out careers in technical and vocational fields for free by attending Surf Tech at the Wilson Tech Center in Dix Hills or Huntington. There are 6-week sessions in the fall, and (sometimes) in the spring each year. Classes meet one day a week, after school. Transportation is provided from Babylon High School to the program and then back to the student's home in fall and spring only. Students will learn what kind of skills and educations are needed to succeed in these fields. Surf Tech offers courses in Architecture, Automotive Technology, Construction Electricity, Cosmetology, Design & Animation, Health Careers, Heating & Ventilation, and Welding. See course descriptions at www.wilsontech.org/surftech.

Wilson Tech: www.mytechnow.org - Students in grades 11 and 12 can start a career while still in high school by choosing one of the 40 programs Wilson Tech offers for high school students. Programs provide a foundation for success in the workplace and for post secondary education. Students who are interested in attending a Career and Technical Education program should notify their counselor by February of 10th grade. A school trip to Wilson Tech is scheduled every year and students are encouraged to attend. Locations of Wilson Tech programs vary according to the area of study each student pursues.

COURSE OFFERINGS

Construction Occupations

Architectural Design (CAD)
Carpentry
Construction Electricity
Heat/Vent/Air Cond. (HVAC)
Welding

Graphics and Media Occupations

Advertising Art/Graphic Design
Audio Production
Professional Photography
Digital Film & Video Production

Health Occupations

Medical Assisting
Medical Lab
Nurse Assisting
Professional Health Careers
Physical Therapy Aide

Service Occupations

Certified Personal Trainer

Service Occupations (con't.)

Cosmetology
Culinary Arts
Early Childhood Education
Fashion Merchandise/Design
Equine Studies
Criminal Justice
Veterinary Assisting

Technical Occupations

Computer Networking/Business Skills
Electronics/Robotics/Computer Repair
Computer Networking

Transportation Occupations

Aircraft Technology
Auto Body/Repair
Auto Technology
Aviation Science/Flight
Marine Motor Sports Tech

Guidelines

Applications are available at the Counseling Center for students in the eleventh and twelfth grades. Selection to occupational programs is based on the following: Availability of openings in occupational clusters, attendance record, scholastic record, discipline record. Students accepted to the Tech program report to Babylon High School for three courses plus physical education, and they attend a Wilson Tech Center during either the morning or afternoon. Students going to Tech do not have a choice in selecting the session (morning or afternoon) of attendance.

Attendance and Occupational Credit Policy

We must insist on daily attendance from all students accepted into these programs unless there is serious reason for an absence. Any Tech student with a poor attendance record, without sufficient cause, will be removed from the program. Good attendance, coupled with a passing average, will result in full credits being awarded by the local school district for successful completion of each Wilson Tech program. Conversely, absences that are considered to be excessive, more than 18, will result in a loss of credit, despite a passing grade.

Awarding of Occupational Education Certificates of Completion

Wilson Tech students can earn a career and technical education (CTE) endorsement on their high school diplomas when they successfully complete a Tech program and pass a nationally recognized certification exam in their chosen field. Each of Tech's 40 programs has been approved by the State Education Department for this CTE endorsement. Additional requirements: be eligible for a Regents Diploma, complete a two year program, and have less than 36 absences over a two year period.

National Honor Society

Criteria for Membership

Membership in the National Honor Society is one of the highest honors that can be awarded to a secondary school student. The National Honor Society has worked hard to bring the accomplishments of outstanding students to the attention of parents, teachers, peers, and community. Schools across the nation strive to give practical meaning to the Society's goals of scholarship, leadership, service, and character.

These four ideals are considered as the basis for selection. No student is inducted simply because of high academic average. The National Honor Society strives to recognize the total student: one who excels in all these areas. The standards used for selection are:

- Scholarship 89.5 cumulative unweighted average
- Leadership and Character as demonstrated by activities indicated on student application and teacher recommendations.
- Service A minimum of twenty hours of community service is required.

The application is submitted to a selection committee composed of faculty members who evaluate the applicant based on the established criteria. Discipline records are reviewed and considered by the committee in determining eligibility.

National Junior Honor Society

Criteria for Membership

- I. Academic Average
90% (cumulative - unweighted) A student, in 9th grade, is invited to apply based on this average of 90% or above.
- II. Community Service
Ten hours of community service during the junior high school years is required. This includes unpaid volunteer work through school clubs, scouts, church organizations, etc. A signed letter of confirmation of service is required from the person who supervised the volunteer work.
- III. Leadership
This includes being nominated for an office, participation in student government, any supervisory position held through school, church, scouts, sports, etc.
- IV. Character
This involves rating by teachers in the categories of character, leadership, and service. The discipline records of all candidates will be considered as part of this determination.

Final selection is made by a five-member committee of faculty members. The admission decision is based on all of the information provided in the student application that must be submitted by the established deadline.

English Department

Upon completion of the English Language Arts program, students will have experienced integrated instruction in reading, writing, listening, and speaking as they relate to national and state Common Core standards. In addition, students will have acquired the skills to transmit information, to understand relationships, and to communicate ideas, opinions and values to others. Students will have experienced the power and beauty of the English language as a reflection of the human condition as well. Furthermore, they will be taught how to become well-informed lifelong readers and writers instilled with a sensitivity, awareness, and appreciation for the written word. Lastly, but certainly not least in importance, students will have been taught how to apply the standards of written English in their writing and in their speaking.

English 7

Grade 7

The seventh grade English curriculum focuses on meeting Common Core State Standards through the study of literature and nonfiction texts and composition and argument. Through the instruction of academic and contextual vocabulary and grammar and usage when writing or speaking, students will become more effective communicators and hone their reading, writing, and research skills.

English 7 Extended

Grade 7

This seventh grade English class focuses on providing students with a core curriculum based on the skills taught in English 7 with additional support in reading and writing. Students will receive the needed academic intervention support to strengthen reading comprehension through the use of critical thinking skills, a concentration on vocabulary in context and a focus on annotation. Students will strengthen writing through the writing process, including planning, collaboration, editing, and revision.

English 8

Grade 8

The purpose of this course is to provide students with an eighth grade English education in accordance with Common Core State Standards. They will learn how to access, interpret, and write about literature and informational texts in class and at home. In addition, they will acquire skills to look beyond the literal meaning of written pieces and to identify an author's deeper purpose. Students will learn to articulate their interpretations in well-written compositions and arguments. Students will study both grammar and vocabulary in context of reading and writing.

English 8 Extended

Grade 8

This eighth grade English class focuses on providing students with a core curriculum based on the skills taught in English 8 with additional support in reading and writing. Students will receive the needed academic intervention support to strengthen reading comprehension through the use of critical thinking skills, vocabulary instruction, and writing exercises.

Foundations 8 (20 weeks alternating days)

Grade 8

This course provides a supplemental learning environment designed to help students who are in 8th grade ELA and Math, develop essential, fundamental skills. The course will be co-taught by both an ELA teacher and a Mathematics teacher. It will foster an individualized approach to learning and utilize instructional technologies such as Iready and other online resources to help design and monitor student instruction. Students who score below a 75 on either the 7th grade English final or the 7th grade Math final will be placed in this course.

Prerequisite: Student must be enrolled in English 8, Math 8 and be recommended for placement.

English 8 Honors

Grade 8

This course serves as the first honors course offered in the English department and uses a humanities based approach, asking students to grapple with historical events and topics, while incorporating all needed literacy and language skills. Thematic units focusing on the exploration of the human condition allow for deep analysis of classic and contemporary texts of varying genres. Writing workshops address all grade-level standards, with a focus on nonfiction writing.

Prerequisite: Students must have an overall average of 93% or higher in their previous English class, or have earned the approval of the English Committee based on samples of student writing indicative of strong style, including voice, insight, development, precision, and clarity. Additionally, students must meet the standards of The Work Habits Rubric. Please note that an 85% average must be maintained throughout the course of the year in order to be considered for admittance to the next honors course.

QuestED (10 weeks)

Grade 8

All eighth grade students will be enrolled in QuestED. This class, taught by our Library Media Specialist, is structured to facilitate Interest Based Learning. Students will have the opportunity to explore their own interests by choosing what they learn during a set period of time. The goal of QuestED is to invigorate a love for learning, instill lifelong learning habits and engage students in inquiry. By planning their own projects, students will engage in purpose driven learning, design their own learning paths and conduct inquiry. Required submissions will include a capstone presentation of a project and a student reflection. Teaching standards will be aligned with the New York State Information Fluency Continuum and the principles of Genius Hour in the Classroom.

Freshman Seminar

Grade 9

½ Credit

This course is designed to teach the skills needed to succeed both during students' high school experience and in preparation for their post high school plans. This course addresses the paradigm shift from conducting research based on deductive reasoning to conducting research based on inquiry. Additionally, this course enriches the curriculum by serving as an academic springboard, supporting other core courses to address the written components of formal research. There are four main learning targets which all students should master by the end of the course. Each is met with a range of acquired knowledge and skills. Students will utilize technology to build and accrue the necessary research skills for high school success, build and accrue the necessary academic writing skills for high school success, utilize a variety of academic techniques, strategies, resources, as well as promote self-awareness to achieve success as a lifelong learner and utilize Google Drive to create an interdisciplinary portfolio on which they will reflect by conducting a student-led conference.

English 9

Grade 9

1 Credit

Students at this level work on developing sophisticated thinking, reading, writing and speaking skills associated with the national Common Core Learning Standards. During freshman year, students are taught to respond insightfully with respect to the content and craft of both informational and literary texts. Academic vocabulary is taught to foster college preparedness. Additionally, students will continue to hone their writing skills, with a concentrated focus on providing and evaluating evidence to support their claims or arguments to a variety of genres.

• *NCAA Approved*

English 9 Honors

Grade 9

1 Credit

This course permits the highly-motivated student to conduct a deeper study of informational texts, literary genres and effective communication skills as outlined by the national Common Core Learning Standards. This will be accomplished through the exploration of texts through a humanities based lens, rooted in interdisciplinary reading material. Consequently, students will study classic and contemporary texts from around the globe.

Prerequisite: Students must have an overall average of 93% or higher in their previous English class, or have earned the approval of the English Committee based on samples of student writing indicative of strong style including voice, insight, development, precision and clarity. Please note that an 85% average must be maintained throughout the course of the year in order to be considered for admittance to the next honors course. Additionally, students must meet the standards of The Work Habits Rubric.

• *NCAA Approved*

English 10

Grade 10

1 Credit

Students will engage in close readings of both literary and informational texts with the purpose of analyzing content and style with an ever-advancing critical perspective. Reading and writing assignments are grounded in Common Core pedagogy, reflected by the constant emphasis on the employment of text-based evidence to support assertions, as well as in the focus on building and strengthening students' analytic and persuasive skills. Argumentative writing and research skills are further developed through informational genre studies. Most importantly, the art of essay writing will be honed and discussed in terms of focus, clarity, transition-making, logic of structure, and organization of ideas. Grammar, mechanics and usage will be reviewed in preparation for the PSAT, SAT, and the Common Core English Regents, which will be administered in the students' junior year.

• *NCAA Approved*

English 10 Honors

Grade 10
1 Credit

This course serves as a continuation of the honors program begun in eighth grade based on the Common Core Learning Standards. Students will analyze literary and informational texts primarily through the lens of social injustice in global and American history, using rhetorical devices and text-based evidence. A variety of genres will be explored with the expectation that students are able to synthesize information from both primary and secondary sources in speaking and writing to prepare for AP Language and Composition. Academic vocabulary and research paper writing also will be taught with a focus on college readiness. Lastly, the nuances of an author's purpose as reflected in diction, syntax and technique will be examined.

Prerequisite: Students must have an overall average of 93% or higher in their previous English class, or have earned the approval of the English Committee based on samples of student writing indicative of strong style including voice, insight, development, precision and clarity. Please note that an 85% average must be maintained throughout the course of the year in order to be considered for admittance to the next honors course. Additionally, students must meet the standards of The Work Habits Rubric. • *NCAA Approved*

English 11

Grade 11
1 Credit

This course is based upon the Common Core State Standards for the eleventh grade. It provides a strong background and review in academic vocabulary, conventions of standard English, and skills associated with multiple genres of reading and writing. Both informational and literary texts are employed to meet these needs as suggested by the Common Core Learning Standards and the New York State Education Department. The major examination is the English Common Core Regents which students must pass in order to graduate. Students are also responsible to seriously prepare for a midterm and college entrance examinations as well. • *NCAA Approved*

Senior English

Grade 12
1 Credit

Student's reading and writing skills will be honed through rigorous study of a wide array of expository and literary genres, namely; British colonial literature, the American novel, the short story, journalism, essays, poems, podcasts and more. Students begin the year "looking inward" through the examination of the personal essay in order to craft effective writing samples to accompany their college applications. Additionally, all students are instructed how to write academic argumentation, research, and literary analysis papers providing the crucial tools needed for the close study and discussion of the curriculum readings. The course includes both a midterm and final examination. • *NCAA Approved*

Short Story

Grade 12
½ Credit

This course is designed for college-bound students who enjoy reading short stories from a variety of styles, periods, gender perspectives, and cultures. Selections from such authors as Tolstoy, Dostoevsky, Crane, Hemingway, Fitzgerald, Welty, Chopin, Freeman, Hawthorne, Poe, and others portray this wide variety. Assignments will be primarily from the *Norton Anthology of Short Fiction*; however, selections from other texts, such as the latest edition of the annual contemporary anthology, *The Best American Short Stories*, will offer students both a curriculum of the classics as well as the best of contemporary authors. Students will read and write assignments very likely to be revisited in college. • *NCAA Approved*

The Evolution of Horror

Grade 12
½ Credit

This course focuses on the evolution from the traditional Gothic horror story to contemporary works of horror fiction. Not only comprised of the classics from the Gothic Period, such as Edgar Allan Poe's short stories, Mary Shelley's *Frankenstein*, and Bram Stoker's *Dracula*, this course examines gothic elements as they also appear in contemporary works by Stephen King, Dean Koontz, Ann Rice, and others. Students will read scholarly literature often and widely, so this is not a course for reluctant readers. In addition, students will write literary arguments, in LSA style, about current perspectives of Gothic Literature, including contemporary critics on Stephen King's work, as well as the literary critics of the Romantic Period, of which gothic Literature is a part. • *Pending NCAA Approval*

English Mastery Labs

Grades 9-11

Mastery labs within the English department are designed to support and reinforce classroom instruction. Labs provide the students with additional time to decipher and analyze information under the careful supervision of an English teacher. Labs also act as small forums in which students are able to engage in class discussions and pose questions, not only to the teacher but with their classmates as well. The criteria for placement in a mastery lab are based on recommendations from the student's counselor, classroom teacher, lab teacher, and the academic performance of the students. A student's performance in his/her lab class may affect the grade in his/her primary English class.

SAT/ACT Prep

Grades 10-11

College Testing Preparation is a one-semester course designed for sophomores and juniors who intend to take the SAT and ACT. This class, taught by members of both the English and Math Departments, gives students a comprehensive background in the English and Math skills that are necessary for success on the SAT/ACT. Since it is an interdisciplinary offering, students will be evaluated by both their English and Math teachers.

Advanced Placement English: Language and Composition

Grade 11
1 Credit

This AP college-level course is designed to provide instruction and assignments which require students to read critically and analyze carefully a wide variety of challenging non-fiction selections. Through close reading and frequent writing, students deepen their understanding of rhetoric and language, while strengthening their own ability to write for a variety of purposes and audiences. To maintain the standards required for success on the AP Exam in May, students must maintain an average of 85 or above. If a quarter grade falls below 85, a conference will be held to discuss current or alternate placement. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam. • *NCAA Approved*

Prerequisites: The student must earn at least a 90 average for the year in English 10H or a 93 average in English 10. Please note that an 85% average must be maintained throughout the course of the year in order to be considered for admittance to the next AP course. The student must be recommended for AP English by his or her teacher according to the Work Habits Rubric. The student's writing must exceed the Rubric for a regents based class and meet the standards of an AP rubric. The student must have demonstrated a high interest and aptitude in reading. The student must receive approval of his/her writing sample(s) and records from the AP Committee. Students are required to read three texts related to their course of study. A letter will be sent home specifying the reading list and outlining the written assignment.

Advanced Placement English: Literature and Composition

Grade 12
1 Credit

The AP college-level course in English Literature and Composition engages students in careful reading of literary works. Through such study, they sharpen their awareness of language and their understanding of the writer's craft. They develop critical standards for the independent appreciation of any literary work, and they increase their sensitivity to literature as shared experiences. Students study the individual work, its language, characters, actions, and themes. They consider its structure, meaning and value, and its relationship to contemporary experience, as well as to the time in which it was written. To maintain the standards required for success on the AP Exam in May, students must maintain an average of 85 or above. If a quarter grade falls below 85, a conference will be held to discuss current or alternate placement. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam. • *NCAA Approved*

Prerequisites: The student must earn at least a 90 average for the year in 11th Grade AP Language & Composition or a 93 average in English 11. Please note that an 85% average must be maintained throughout the course of the year in order to remain in the course. The student must be recommended for AP English by his or her teacher according to the Work Habits Rubric. The student's writing must exceed the Rubric for a regents based class and meet the standards of an AP rubric. The student must have demonstrated a high interest and aptitude in reading. The student must receive approval of his/her writing sample(s) and records from the AP Committee. Students are required to read three texts related to their course of study. A letter will be sent home specifying the reading list and outlining the written assignment.

Fine and Performing Arts Department

The Art Department, the Music Department, and the Theatre Arts Program have been collectively placed under the title of Fine Arts. Although they remain as independent disciplines, all will strive to maintain the following New York State standards.

- Students will actively engage in the processes that constitute creation and performance in the arts.
- Students will be knowledgeable about and make use of the materials and resources available for participation in the arts in various roles.
- Students will respond critically to a variety of works in the arts, connecting the individual work to other works and to other aspects of human endeavor and thought.
- Students will develop an understanding of the personal and cultural forces that shape artistic communication and how the arts in turn shape the diverse cultures of past and present society.

ART DEPARTMENT

The Art Department offers a five-year sequential program that introduces the history and function of the fine arts as well as developing students' manual skills. The courses are designed to satisfy the needs and interests of all participating students. Originality and creative exploration are stressed. Individual attention and evaluation is a normal procedure. Upon completion of a course study in art, the students will:

- Understand and appreciate how people of various cultures have used the arts to express themselves.
- Understand and appreciate different styles, genres, and art works from representative historical periods.
- Understand and appreciate the skills, media, tools, and aesthetic processes required to express themselves in traditional, craft, and contemporary art forms.
- Express themselves creatively, intellectually and emotionally in one or more of the visual or tactile art forms.
- Analyze the structure of a work of visual or tactile art.
- Identify, describe, and use appropriate vocabulary in art.

Junior High Art

Grades 7-8

Every seventh and eighth grade student receives 10 weeks of art each year. The student will participate in a basic art course and will be introduced to various medium, interdisciplinary concepts, and basic drawing and art skills. 2D and 3D art will be explored. The course will help students explore the function of various media. Exploration, creative expression and personal satisfaction are the goals.

Accelerated Art/Studio in Art 1

Grade 8
1 Credit

A student who demonstrates a high degree of aptitude and talent in seventh grade art will be considered for acceleration in high school Studio Art 1 as an eighth grader. A final average of 92 or better in art, classroom teacher recommendation, and art director's approval are required to be selected for acceleration in art.

Studio in Art 1

Grades 9-12
1 Credit

This is a full-year introductory course which emphasizes perceptual drawing and introduces the student to the basic elements and principles of art. It is the foundation for the three-year sequence required of all art majors as well as an experimental course for students who do not anticipate taking any further art courses. Consideration is given to personal development, independent study, interdisciplinary application, and experience in a studio environment. This course will satisfy the graduation requirement.

Studio in Art 2

Grades 9-12
1 Credit

The second-year art students will continue to develop those skills and concepts represented in Studio 1. Greater demands will be made and more sophisticated work will be expected. Students will have the opportunity to explore drawing, painting, printmaking and sculpture. Creative expression, invention, and mastery skills and abilities should be reflected in the work.

Prerequisite: Studio in Art 1

Studio in Art 3/Art History

Grades 10-12

1 Credit

This course will concentrate on understanding and appreciating studio art and art history as they relate to each other. By teaching art history in chronological order as the basis of teaching the elements and principles of art and art skills, the students will work their way through the centuries of art as they develop the skills in various media. Projects will be based on the artistic time periods that are studied.

Prerequisite: Studio in Art 2

Studio in Art 4

Grades 11-12

1 Credit

This fourth year art course is for juniors and seniors who wish to continue their studies in fine arts. Students will be challenged to discover and continue to explore their personal style and favorite medium. They will also be encouraged to explore new mediums. College portfolio preparation will be emphasized in this course. The portfolio is a sampling of art work by an individual that will be presented for evaluation at the art school or college where one intends to enroll. The student will be expected to complete work in a highly skilled and professional manner.

Prerequisite: Studio in Art 3

Studio in Art 4 Honors

Grade 11

1 Credit

This fourth year honors art course is for juniors who were accelerated into the Studio 1 course in eighth grade and who are planning to take the Studio in Art 5 AP Art course in their senior year. Students will follow the same curriculum as the Studio 4 students but will be required to do all the projects in a 2-D form so as to prepare for the breadth section of the AP portfolio exam the following year. Students will be required to hand in weekly homework assignments and keep an art journal/sketchbook. This is an intense course to prepare the student for the AP portfolio exam in his/her senior year and is for highly motivated and dedicated art students. It is recommended that students participate in the NYSATA portfolio review in May.

Prerequisite: Studio in Art 3, teacher recommendation, and portfolio review

Studio in Art 5

Grade 12

1 Credit

This course is offered to seniors who were accelerated into the Studio in Art 1 course during their eighth grade year. These students must have successfully completed Studio in Art 1, 2, 3, and 4. The course is an advanced study in the various art disciplines. Students will continue to develop their personal style and favorite medium. An emphasis will be placed on enrichment, research, and conceptual development. Students will also be introduced to careers in the art field.

Prerequisite: Studio in Art 4

Advanced Placement Studio in Art 5

Grade 12

1 Credit

This course is offered to seniors who have completed Studio in Art 4 Honors. Students will develop and complete their concentration for the AP exam during class. Studio in Art 5 research and conceptual projects will be completed as homework. Students will be required to continue working in their art journals/sketchbooks. Students will critique and evaluate their lifelong artistic growth and analyze their artistic options for the future. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam.

Prerequisite: Studio in Art 4 Honors and completion of summer art assignment prior to entering the class.

Photography I

Grades 10-12

½ Credit

This course can be elected after the student has completed one full year of Studio Art. The course serves as an introduction to basic black and white film photography processes as well as a study of the development, nature, and function of photography. The course is designed to have students become familiar with film, lighting, composition, developing and enlarging, cropping and mounting. This is a traditional darkroom experience with an introduction into digital photography. Students should supply their own cameras and will have the opportunity to learn how to use them.

Prerequisite: Studio in Art and/or departmental permission

Photography II

Grades 10-12

½ Credit

This course will build upon the skills learned in Photography I. Students will learn more advanced darkroom skills, while having the chance to work on a larger scale. Students will learn how to use their cameras creatively and to see how art and photography are interrelated. Students will also explore the many roles of photography in our culture and will be introduced to the careers in the field. **Students must have their own camera.**

Prerequisite: Photography I

Computer Graphics

Grades 9-12

½ Credit

This course encourages the student to explore the computer as an art medium. Students will use art principles, techniques and concepts learned in previous courses to produce computer generated graphics, as well as to further express themselves artistically. Graphic arts and advertising, collage work, and fine art drawing are some of the areas that will be covered.

Prerequisite: Basic computer and keyboarding skills recommended

Independent Study

Grades 10-12

½ - 1 Credit

Independent study art is available for any student who has taken Art Studio 1 or above and is unable to fit a regularly scheduled art class at his/her level into their schedule, after all scheduling possibilities have been tried. The student will be placed in an art class with an art teacher and will be required to create a plan of study for the year with that art teacher. The student must have the ability to work at an independent level with guidance from the teacher. The student **MUST** have department approval. **This class does not fulfill a class in the sequence of art and does not allow a student to skip the regular level studios.* It does however, allow a student to keep art in his/her schedule.

Prerequisite: Art Studio 1 *and* department approval

MUSIC DEPARTMENT

The department's faculty endeavors to provide music training and background for all students through grade 8 and continuing development for those electing performing groups in grades 9 through 12. Through class lessons and ensemble training in voice or instruments, a broad background in style and theory is presented. All music students are encouraged to enter the Solo and Ensemble Evaluation Festival as a means of self-improvement. Those who do so successfully will then be eligible for music festivals at the county and state levels. Being selected is not only an honor but also a most worthwhile and lasting experience.

Students completing a music program will:

- Have an awareness of the aesthetic qualities in various styles of music.
- Recognize and identify meter, rhythm, melody, harmony, tempo, dynamics, tone color, and form.
- React to the beat and rhythm of music through physical movement.
- Have some understanding of the instrumentation and stylistic requirements of various performing groups.
- Have performance experiences in large and/or small instrumental and vocal ensembles.
- Be exposed to the music of other countries and cultures.

General Music

Grade 7

Any student not enrolled in Junior High Chorus, Band or Orchestra must take General Music. Classes meet every other day for a full year. The object is to help students gain a sense of the aesthetic values in music and develop a lasting appreciation and enjoyment of music. The curriculum traces the development of music through the various style periods, from early monody to the modern electronic medium. Units on guitar, drumming, and popular music are also included.

Junior High Chorus

Grades 7-8

Junior High Chorus is a two-year commitment, encompassing grades seven and eight. Proper singing technique and various styles of vocal music are taught in preparing for three yearly concerts. Attendance at all scheduled concerts is required for passing. Small group lessons are scheduled on a rotating basis for all choral students. These lessons are an essential component designed to teach proper vocal technique as well as music theory and ear training. Small group lessons are a requirement for all Junior High Chorus students, in accordance with NY State recommendations for music education.

Prerequisite: Participation in 5th and 6th grade Chorus, recommendation of grade school chorus teacher and/or audition by junior high chorus teacher

Senior High Chorus

Grades 9-12

1 Credit

The Senior High Chorus is an advanced performance ensemble that prepares and performs three concerts throughout the school year. Proper pedagogy, music theory and ear training are taught while exploring the music of various genres and eras. In addition, the Senior High Chorus performs at the annual graduation ceremony in June. Attendance at all scheduled concerts as well as graduation is required for passing. Small group lessons are scheduled on a rotating basis for all choral students. These lessons are an essential component designed to teach proper vocal technique as well as music theory and ear training. Small group lessons are a requirement for all Senior High Chorus students, in accordance with New York State recommendations for music education.

Prerequisite: Participation in JH Chorus, recommendation of JH Chorus teacher and/or audition by Senior High Chorus teacher.

BHS Chorale

Grades 10-12

1 Credit

The BHS Chorale is a select vocal ensemble consisting of 25-32 students. Members of this ensemble will perform music from (or comparative to) levels 5 and 6 of the NYSSMA Manual. Performances will include: Winter and Spring Department Concerts, "POPS" Concert, The Music Department Tour, and other community and/or adjudicated festivals.

Prerequisite: A minimum of 1 year of membership in the Senior High Chorus, director approval, and audition

Grade 7 Band/Grade 8 Band

Grades 7-8

Junior High Band meets every other day. Course requirements for band include: weekly lesson attendance (based on a rotating schedule) and participation in all band performances. Students will gain experience in playing music of different time periods, cultures, and in numerous styles. Students will also further their knowledge and technical ability of their specific instrument. It should be noted that junior high band is a two-year commitment and students are required to participate during seventh and eighth grade.

Prerequisite: Participation in 6th grade Band, recommendation of grade school Band teacher and/or audition by JH Band teacher

High School Band

Grades 9-12

1 Credit

The High School Band maintains a very busy schedule of public performances during the school year. In the fall, all band members participate in the Panther Marching Band that performs at all BHS home football games and several parades. In November, the band program focuses on concert band performance in preparation for a minimum of three evening concert performances during the remainder of the school year. Course requirements for band include: weekly lesson attendance (on a rotating basis), participation in all band performances, and full participation as a member of the Panther Marching Band. Exceptional music students and students planning to enter a career in music may fulfill performance requirements through participation in the BHS band program and may be eligible to participate in New York State School Music Association events (All-State, All-County, Solo Festival).

Prerequisite: Director approval/audition required for those students not entering from 8th Grade Band

Symphonic Winds

Grades 10-12

1 Credit

The Symphonic Winds is comprised of a highly select group of musicians numbering approximately 30-40 students. During the fall, in addition to starting their Wind Ensemble repertoire, all Symphonic Winds members participate with the Panther Marching Band which performs at all BHS home football games and several parades. During the remainder of the school year, there will be a minimum of three evening performances. As with the High School Band, course requirements include: weekly lesson attendance (on a rotating basis), participation in all band performances, and full participation as a member of the Panther Marching Band.

Prerequisite: At least one year in the High School Band, recommendation of the High School Band Director, and by audition

Junior High String Orchestra

Grades 7-8

Junior High String Orchestra meets every other day. Course requirements for orchestra include weekly lesson attendance (based on a rotating schedule) and participation in all orchestra performances. Students will gain more advanced techniques as related to their instruments. Please note that orchestra is a two-year commitment and students are required to participate during 7th & 8th grade.

Prerequisite: Participation in the Grade School Concert Orchestra, recommendation of grade school orchestra teacher and/or audition by JH orchestra teacher

Senior High String Orchestra

Grades 9-12

1 Credit

Students will gain experience in performing traditional orchestral works through various outlets. They will also gain more advanced techniques as related to their instruments. There will be a minimum of three evening performances. Other course requirements include weekly lesson attendance (based on a rotating schedule). Exceptional BHS Orchestra students may be eligible to participate in New York State School Music Association events (All-State, All-County, and Solo Festival).

Prerequisite: Director approval/audition required for those students not entering from Junior High Orchestra

Music Theory 1

Grades 9-12

1 Credit

Music Theory 1 is an advanced music course designed to provide students with a comprehensive study of the treatment of the elements of music (music theory, composition, ear training, music history, conducting, performance, and critical analysis). This course is designed for serious students who wish to explore the many facets of music as an art and as a profession. While geared towards those students who already sing or play an instrument, this course is also open to non-music students who already possess the ability to read music (upon approval of the instructor). Students who plan to enter the field of music and students who are serious about musical study should consider this course. Upon completion, students are eligible to elect to take Music Theory 2. This course may serve to fulfill a theory requirement in the major sequence of music.

Prerequisite: Music reading ability and/or approval of instructor

Music Theory 2

Grades 10-12

1 Credit

Music Theory 2 students will follow an extensive course of study in music composition, advanced music theory and ear training, analysis, and music performance. Independent study projects and field work are also important aspects of this second year course. Music Theory 2 is a second year extension of the introductory course offering Music Theory 1.

Prerequisite: Music Theory 1 and/or permission of the instructor

Music In Our Lives

Grades 9-12

1 Credit

This course is designed for High School Students seeking a musical experience without a performance requirement. The course of study will focus on contemporary as well as “serious” musical styles and will offer students the opportunity to create, perform, listen to, and analyze music.

THEATRE

Introduction to Theatre Arts

Grades 9-12

1 Credit

This year-long class fulfills New York State’s Arts education credit and functions as the first course in a sequence in theatre arts. Students are exposed to the world of the theatre via producing school-wide theatrical events. In addition to improvisation and open-script work, students explore the genesis of theatre through ritual, mime, mask-work and storytelling. In the spring, students write, act, direct, design and perform a show for students in the elementary school to foster literacy which is also their end of the year project. New this year...students will learn the fundamentals of stage, costume, lighting and sound design.

Theatre Arts II

Grades 10-12

1 Credit

Students continue exploring theatre’s historical past via the following periods: Medieval, Renaissance (Commedia dell’Arte), Elizabethan, and Restoration Theatre. Character development, improvisation, and

playwriting are incorporated into projects performed both inside and outside of the class throughout the year. Stage, costume, lighting and sound design skills will be further developed.

Prerequisite: Introduction to Theatre Arts

Advanced Theatre Study

Grades 11-12

1 Credit

This performance-based course furthers the development of students' skills via theatrical productions given once a semester outside of class. Students further hone their skills in both performance and technical theatre. Modern drama and its various movements will be studied.

Prerequisite: Theatre Arts II and audition required

World Languages Department

The World Languages Department offers full sequences in Spanish and French with courses in American Sign Language as well. Beginning in seventh grade, students may choose between Spanish or French to begin their language studies. Their junior high school language study covers Checkpoint A of the New York State Education Department's Learning Standards for Languages other than English. These standards are adopted as part of the Common Core State Standards and are in line with the ACTFL (American Council on the Teaching of Foreign Languages) National Standards for language learning. Upon successful completion of a regionally developed comprehensive examination in the language, students will receive 1 H.S. credit for their junior high study. The students will go on to study for two years more pursuing Checkpoint B proficiency, earning 1 H.S. credit for each year of study. Their successful completion of a regionally developed comprehensive examination at the end of two years will award them the language component for a Regents Diploma with Advanced Designation.

Beginning in grade 9, students may choose to take American Sign Language, offering them an opportunity to learn another language while earning 1 H.S. credit per year of study. The successful completion of a regionally developed comprehensive examination will afford them the chance to complete another language sequence. [Students can also begin the study of another language in grade 9, if they have taken Spanish, they will continue to do so, but add French to their schedule or vice versa.]

The teaching of French and Spanish is based on materials published by Glencoe Publishers. These materials consist of units of study that include a wide variety of language activities, i.e. basic dialogues, pattern drills, vocabulary presentations, grammar, pronunciation and communicative activities. The main focus of each class is the development of communicative skills. Each unit is supplemented by a variety of writing activities, listening activities, multimedia presentations, videos, and testing materials, as well as an online component and listening lab of native speakers for additional reinforcement. The units of study are organized into Checkpoints:

Checkpoint A (grades 7-8) - Emphasis is placed on the fundamental sound system, vocabulary, basic grammatical structures and the essential skills needed for listening, speaking, reading and writing at an age appropriate level. Students are also exposed to the countries and cultures in which the language studied is spoken. Level appropriate, authentic text and media will be utilized whenever possible.

Checkpoint B (grades 9-10) - Emphasis is placed on the use of the target language in all forms (listening, speaking, reading and writing) with an extensive vocabulary and grammatical skills. Students will be further exposed to the countries and cultures in which the language studied is spoken. Appropriate, authentic text and media will be utilized whenever possible.

Checkpoint C (grades 11-12) – Advanced reading, writing, speaking and listening skills are emphasized with authentic text and media are utilized frequently. Development and enhancement of previously acquired linguistic skills will be emphasized while college and career readiness is a goal. Similar goals are set for the intermediate level, college course offered to seniors.

FRENCH CORE PROGRAM

French 1A	Grades 7-12	
French 1B	Grades 8-12	1 Credit
French 2	Grades 9-12	1 Credit
French 3	Grades 10-12	1 Credit
French 4	Grades 11-12	1 Credit
French 5	Grades 11-12	1 Credit
College French	Grades 11-12	1 Credit

French 1A**Grades 7-12**

French 1A is the beginning course in the study of the French language and culture. Emphasis is placed upon linguistic fundamentals and creating a strong foundation in all language modalities: listening, speaking, reading and writing.

French 1B**Grades 8-12
1 Credit**

French 1B is the second half of the Checkpoint A study of the French language and culture. Students will continue to build a strong foundation for future language study while preparing for the Checkpoint A exam, which is cumulative and developed regionally. Upon successful completion of the exam and course, students will receive 1 H.S. credit for their study.

French 2**Grades 9-12
1 Credit**

French 2 is the continuation and expansion of the study of French language and culture. Students will continue to enhance their skills in speaking, reading, writing and listening while expanding their vocabulary and use of the language in level appropriate contexts.

French 3**Grades 10-12
1 Credit**

French 3 offers students the opportunity to sharpen their linguistic skills and prepare for the Checkpoint B exam, which is a cumulative, regional exam offered in June. The successful completion of this course will allow eligible students to receive the Regents Diploma with Advanced Designation. This course is also a prerequisite for all other advanced French courses.

Advanced Electives**French 4****Grades 11-12
1 Credit**

French 4 is an advanced course offered to juniors and seniors. Students completing their language sequence early may enroll in this course with teacher and director approval. The development of skills in speaking, reading, writing and listening is refined in preparation for college and career. The use of the language in practical and academic situations is further developed, providing students with vocabulary and grammatical instruction that is meaningful. Culturally based lessons provide application of the linguistic skills acquired while emphasizing other areas of study, such as literature, history, art, theatre, film, music and more. Exposure to authentic cultural text and media whenever possible creates a connection between the language studied and the culture of the people that speak it.

• *NCAA Approved*

Continuing Language-French Teaching Assistant Program**Grade 12
½ Credit or 1 Credit**

This independent study course is designed for college bound, post-Regents level students. It is a half-year or full-year elective that allows the student to team up with a foreign language teacher teaching a beginning level course. By so doing, the student is exposed to the target language on a daily basis, and is given the opportunity to refine his or her own skills while assisting beginning level students.

Prerequisites: French Communication, French Culture, and both teacher and director approval

French 5**Grades 11-12
1 Credit**

This one-year course offers students who have successfully completed French 4 the opportunity to continue their study of French language and culture. This is a proficiency based course that reviews the formal structures of the language, refines linguistic skills and builds awareness of French culture through a variety of authentic literary and oral texts. Communicative skills are further developed through the use of film, TV, radio and other realia. French 5 will follow the standards developed by the New York State Education Department for Checkpoint C language study.

• *NCAA Approved*

College French**4 Credits – Syracuse University****Grades 11-12****1 Credit**

This one-year course offers seniors who have successfully completed French 4 with an 85 or better or highly qualified juniors the opportunity to study college French and earn 4 college credits through Syracuse University's Project Advance. French 201 is a proficiency-based course that reviews formal structures of language, refines previously acquired linguistic skills, and builds awareness of French culture. Authentic oral and literary texts are introduced as well. The course uses film, TV/radio, and literary texts to develop oral, listening, reading and writing skills. Classes are conducted in French with clarification made on rare occasions in English. The course follows the curriculum established by the World Languages Department at Syracuse University. This provides our students the experience, expectations, and responsibilities of college-level work during their senior year. The cost for this course is approximately \$112.00 per credit, to be paid by the student directly to Syracuse University (financial aid is available). Students enrolled in this course must take it for college credit. Students must maintain an average of 80 or better to remain in the course. • *NCAA Approved*

Prerequisites: Three years of high school French with an average of 85 or higher, recommendation by high school French teacher, director approval, and mandatory summer assignment.

SPANISH CORE PROGRAM

Spanish 1A	Grades 7-12	
Spanish 1B	Grades 8-12	1 Credit
Spanish 2	Grades 9-12	1 Credit
Spanish 3	Grades 10-12	1 Credit
Spanish 4	Grades 11-12	1 Credit
Spanish 5	Grades 11-12	1 Credit
College Spanish/Spanish 201 (Syracuse University)	Grades 11-12	1 Credit

Spanish 1A**Grades 7-12**

Spanish 1A is the beginning course in the study of the Spanish language and culture. Emphasis is placed upon linguistic fundamentals and creating a strong foundation in all language modalities: listening, speaking, reading and writing.

Spanish 1B**Grades 8-12****1 Credit**

Spanish 1B is the second half of the Checkpoint A study of the Spanish language and culture. Students will continue to build a strong foundation for future language study while preparing for the Checkpoint A exam, which is cumulative and developed regionally. Upon successful completion of the exam and course, students will receive 1 H.S. credit for their study.

Spanish 2**Grades 9-12****1 Credit**

Spanish 2 is the continuation and expansion of the study of Spanish language and culture. Students will continue to enhance their skills in speaking, reading, writing and listening while expanding their vocabulary and use of the language in level appropriate contexts.

Spanish 3**Grades 10-12****1 Credit**

Spanish 3 offers students the opportunity to sharpen their linguistic skills and prepare for the Checkpoint B exam, which is a cumulative, regional exam offered in June. The successful completion of this course will allow eligible students to receive the Regents Diploma with Advanced Designation. This course is also a prerequisite for all other advanced French courses.

Advanced Electives

Spanish 4

Grades 11-12

1 Credit

Spanish 4 is an advanced course offered to juniors and seniors. Students completing their language sequence early may enroll in this course with teacher and director approval. The development of skills in speaking, reading, writing and listening is refined in preparation for college and career. The use of the language in practical and academic situations is further developed, providing students with vocabulary and grammatical instruction that is meaningful. Culturally based lessons provide application of the linguistic skills acquired while emphasizing other areas of study, such as literature, history, art, theatre, film, music and more. Exposure to authentic cultural text and media whenever possible creates a connection between the language studied and the culture of the people that speak it.

• *NCAA Approved*

Continuing Language-Spanish Teaching Assistant Program

Grade 12

½ Credit / 1 Credit

This independent study course is designed for college bound, post-Regents level students. It is a half-year or full-year elective that allows the student to team up with a foreign language teacher teaching a beginning level course. By so doing, the student is exposed to the target language on a daily basis, and is given the opportunity to refine his or her own skills while assisting beginning level students.

Prerequisites: Spanish Communication, Spanish Culture, and both teacher and director approval

Spanish 5

Grades 11-12

1 Credit

This one-year course offers students who have successfully completed Spanish 4 the opportunity to continue their study of the Spanish language and culture. This is a proficiency based course that reviews the formal structures of the language, refines linguistic skills and builds awareness of Hispanic culture through a variety of authentic literary and oral texts. Communicative skills are further developed through the use of film, TV, and radio and other realia. Spanish 5 will follow the standards developed by the New York State Education Department for Checkpoint C language study.

• *NCAA Approved*

College Spanish

4 credits – Syracuse University

Grades 11-12

1 Credit

This one-year course offers seniors who have successfully completed Spanish 4 with an 85 or better or highly qualified juniors the opportunity to study college Spanish and earn 4 college credits through Syracuse University's Project Advance. Spanish 201 is a proficiency-based course that reviews formal structures of language, refines previously acquired linguistic skills, and builds awareness of Spanish culture. Authentic oral and literary texts are introduced as well. This course uses film, TV/radio, and literary texts to develop oral, listening, reading and writing skills. Classes will be conducted in Spanish with clarification made in English on rare occasions. The course follows the curriculum established by the World Languages Department at Syracuse University. This provides our students the experience, expectations, and responsibilities of college-level work during their senior year. The cost for this course is approximately \$112 per credit, to be paid by the student directly to Syracuse University (financial aid is available). Students enrolled in this course must take it for college credit. Students must maintain an average of 80 or better to remain in the course.

• *NCAA Approved*

Prerequisites: Three years of high school Spanish with an average of 85 or higher, recommendation by high school Spanish teacher, director approval, and mandatory summer assignment.

OTHER ELECTIVES

Introduction to American Sign Language

Grades 9-12

1 Credit

This introductory course is designed to provide the basic signs needed to assist people with a hearing disability, and to communicate simple ideas and feelings through signing. Students are also introduced to the culture of the hearing impaired and the difficulties that they face and overcome on a daily basis. Guest speakers and field trips are arranged whenever possible to enhance the curriculum.

• *NCAA Approved*

American Sign Language 2

Grades 10-12

1 Credit

This course is offered as a sequence to Introduction to American Sign Language. It continues and expands the vocabulary, culture, and skills developed in Introduction to Sign Language. As in the introductory course, the emphasis is on developing an understanding for the deaf culture, and the ability to communicate with the hearing impaired.

• *NCAA Approved*

Prerequisite: Introduction to Sign Language

American Sign Language 3

Grades 11-12

1 Credit

Sign Language 3 is the final course of a three-year sequence in American Sign Language. Students successfully completing this sequence and the Checkpoint B Exam show a high level of motivation and diligence which provides them with a great benefit when applying to colleges and universities.

• *NCAA Approved*

Prerequisite: Sign Language 2

American Sign Language 4/College ASL

6 college credits - St. John's University

Grade 12

(Pending)

1 Credit

American Sign Language 4 (ASL 4) offers students the opportunity to explore the arts, literature, and history of the Deaf Community and use the language for in-depth discussions and conversation. Upon completion of the course, students can earn credit from St. John's University (approval pending). There are 2 semester courses, both offering the chance to earn 3 credits per semester. Students may choose to enroll in one or both semesters, earning up to 6 credits per year. Students must have the completed ASL 3 course prior to entering. The cost for the course is approximately \$325 per 3 credits.

Mathematics Department

The Department of Mathematics structures its curriculum and instruction to provide students with the arithmetic, algebraic, analytic and thinking skills necessary to meet the high technology demands of today's society. Our course sequencing is a detracked, "Regents only" program that is in full compliance with the newly re-structured State Regents curriculum. Students of all levels of skill and ability have several options for meeting their Math Regents graduation requirement as well as pursuing an Advanced Regents Diploma. This is consistent with the raised achievement expectations and higher standards of New York's state assessments. To this end, the following are the program standards that drive all mathematics instruction at Babylon Junior-Senior High School.

- Students understand mathematical concepts, symbols and procedures and are able to apply them to real world situations.
- Students are proficient in mental computations and estimation skills as well as the use and applications of calculators and computers.
- Students develop problem solving skills that are the product of logical and critical thinking.
- Students acquire organizational, study and responsibility skills.
- Students confidently express ideas using appropriate mathematical terms (both oral and written) while recognizing and appreciating differing points of view, strategies and alternative solutions.
- Students observe the interrelationship among academic disciplines.
- Students persevere and persist in striving for quality in learning and that this will remain a lifelong pursuit.

Accelerated Mathematics Program

Students are selected for the Accelerated Mathematics program starting at the end of grade 6. The selection criteria include (but are not limited to): 6th grade academic performance, performance on a skills survey assessment and teacher recommendation. All of these components are included in a comprehensive placement rubric. As a final step, the Principal and Director of Mathematics review the final list of candidates.

The Accelerated Mathematics program is a rigorous, challenging, and demanding course of study that is best suited for those who meet all the entry criteria. Students in the Accelerated Mathematics program must maintain an 85 academic average to remain in the program.

Students not enrolled in the Accelerated Mathematics program may become eligible after 7th grade by showing outstanding achievement as indicated by a final June average of 95 in their present math class. They then must complete a preparatory work packet, take an appropriate final exam at the end of the summer, achieve at least a 75 on this exam, and take two years of math concurrently to make up for a missed year. Please note that 7th grade students do not need to take two years of math concurrently but must meet all of the other requirements.

Course Descriptions

Math 7

Grade 7

Math 7 is about developing understanding of and applying proportional relationships; developing understanding of operations with rational numbers and working with expressions and linear equations; solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and drawing inferences about populations. Calculator use helps develop, rather than replace, computational skills. Basic geometric concepts are introduced and intertwined with arithmetic. Probability and statistics are studied to provide real world applications for topics previously covered. Students will be required to demonstrate their knowledge of math through applications. Introductory equation solving is also emphasized. Students will be prepared for the state assessment administered each year and will be exposed to the format and content of these questions throughout the year.

Prerequisite: Successful completion of Grade 6.

Accelerated Math 7X

Grade 7

This course will prepare the student for the accelerated regents program that begins in 8th grade. Students in Accelerated Math 7X will combine the contents of Math 7 and Math 8. Topics are presented with a pre-algebra focus. The content to be covered includes: real numbers, logic, transformational geometry, probability and

statistics, algebraic solutions to linear (first degree) equations, and open-ended problems requiring critical thinking. This material is in addition to regular junior high math topics of fractions, decimals, percent, integers and properties of rational numbers. In addition, students will be prepared for the state assessment administered each year, and will be exposed to the format and content of these questions throughout the year. Students are expected to achieve a minimum average of 85 to remain in the course. If a student's average drops below an 85, a conference may be held to discuss the student's status in the program.

Prerequisite: Successful completion of grade 6 and selection based upon a comprehensive placement rubric.

Math 8

Grade 8

Math 8 is about formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; grasping the concept of a function and using functions to describe quantitative relationships; analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem. Emphasis on practical applied problems, attention to academic vocabulary, and the reading of mathematical statements for solving verbal problems, provide a firm foundation for the regents curriculum. Students will be prepared for the state assessment administered each year and will be exposed to the format and content of these questions throughout the year.

Prerequisite: Successful completion of Math 7.

Accelerated Math 8X – Algebra 1 CC

Grade 8
1 Credit

This course begins the accelerated sequence of the state Regents curriculum: Algebra 1 CC, Geometry CC, and Algebra 2 CC. The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The topics of study deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. To meet the requirements of the regents program, students will receive training on the use of the TI-84+ graphing calculator. Students are expected to achieve a minimum average of 85 to remain in the course. If a student's average drops below an 85, a conference may be held to discuss the student's status in the program. Students will take the Algebra 1 CC regents exam in June.

• *NCAA Approved* Prerequisite: Minimum June final

grade of 85 in accelerated Math 7X

Foundations 8 (20 weeks - alternating days)

Grade 8

This course provides a supplemental learning environment designed to help students who are in 8th grade ELA and Math, develop essential, fundamental skills. The course will be co-taught by both an ELA teacher and a Mathematics teacher. It will foster an individualized approach to learning and utilize instructional technologies such as Iready and other online resources to help design and monitor student instruction. Students who score below a 75 on either the 7th grade English final or the 7th grade Math final will be placed in this course.

Prerequisite: Student must be enrolled in English 8, Math 8 and be recommended for placement.

PBL - Project Based Learning (20 weeks - alternating days)

Grade 8

The (PBL) Project-Based Learning Course is a challenging classroom approach in which students actively explore real-world problems and acquire a deeper knowledge. Students respond to real-world questions or challenges through an extended inquiry process. PBL involves peer collaboration, a strong emphasis on critical thinking and communication skills, and interdisciplinary learning. Project-based learning addresses core content through rigorous, relevant, hands-on learning.

Projects are typically framed with open-ended questions that drive students to investigate, do research, or construct their own solutions. Students use technology tools as much as professionals do -- to communicate, collaborate, conduct research, analyze, create, and publish their own work for authentic audiences. Instead of writing book reports, for instance, students in a literature project might produce audio reviews of books, post them on a blog, and invite responses from a partner class in another city or country.

Since middle school (junior high) is a time of tremendous change, it is the ideal time to integrate PBL. Creating challenging PBL lessons will help keep students academically engaged. Projects encourage students to encounter, and struggle with, important and "big" ideas. Project-based learning in all content areas (e.g., language arts, social studies, math, science, visual and performing arts, health) shifts the focus of teaching and

learning from a traditional mindset of known facts to a more progressive exploratory mindset in which discoveries are made and the future shaped.

Prerequisite: Student must be enrolled in English 8, Math 8 and be recommended for placement.

Intro to Algebra 1

Grade 9-11

1 Credit

Intro to Algebra 1 is a one year preparatory course for students who need additional numeric and algebraic skill development prior to enrolling in Algebra 1 CC. This course is designed for students who score lower than a “3” on the 8th Grade State Math Assessment and/or students who struggle with underlying mathematical skills. The class will focus on two primary areas: the reinforcement of numeric skills (percent, fractions, decimals and integers) and the fundamentals of algebra (equation solving, inequalities, factoring quadratics and solving related real world/applied problems). Appropriate topics in geometry will also be covered to give students full preparation for Algebra 1 CC, the first Regents course.

Prerequisite: Successful completion of Math 8.

Algebra 1 CC

Grades 9-12

1 Credit

This course begins the sequence of the state Regents curriculum: Algebra 1 CC, Geometry CC, and Algebra 2 CC. The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The topics of study deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. To meet the requirements of the regents program, students will receive training on the use of the TI-84+ graphing calculator. Students will take the Algebra 1 CC regents exam in June.

• *NCAA Approved*

Prerequisite: Minimum June final grade of 75 in Math 8.

Algebra 1 CC Lab

Grades 9-12

Algebra 1 CC Lab is an alternate-day class to support students taking Algebra 1 CC. Development of computational skills with integers, rational numbers and percent will be a priority. Students will also receive attention in strengthening and improving equation and inequality solving skills as well as other fundamental algebra skills and concepts. Small class settings, cooperative activities and appropriate use of calculators and computers will enhance instruction. Algebra 1 CC Lab is one of the Academic Intervention options available to qualified students.

Prerequisite: Student must be enrolled in Algebra 1 CC and recommended for placement.

Intro to Geometry

Grades 10-12

1 Credit

This is a full-year course designed for students who have completed Algebra 1 CC. The course will focus on strengthening and reinforcing skills in algebra, and data analysis. It will also introduce some fundamental concepts in Required in Geometry CC to prepare them for the next regents course. To meet the requirements of the regents program, students will receive training on the use of the TI-84+ graphing calculator.

Prerequisite: Successful completion of Algebra 1 CC.

Geometry CC

Grades 10-12

1 Credit

This course continues the regents curriculum for our students. Students taking this course will be prepared for the material in Geometry CC as outlined by New York State. Students will receive instruction pertaining to Euclidean proof as well as proofs involving coordinate geometry. A rigorous study of postulates, theorems and formal definitions will be fundamental to this course. Constructions will be infused throughout the curriculum to enhance understanding. Students will work to understand one, two, and three dimensional objects. Students will also receive ongoing use of algebraic principles as it applies to geometry. To meet the requirements of the regents program, students will receive training on the use of the TI-84+ graphing calculator. Students will take the Geometry CC regents exam in June.

• *NCAA Approved*

Prerequisite: Minimum June final grade of 75 in Algebra 1 CC.

Accelerated Math 9X - Geometry CC

Grade 9
1 Credit

This course continues the regents curriculum for our accelerated students. Students taking this course will be prepared for the material in Geometry CC as outlined by New York State, but in greater depth than the standard regents program. Students will receive instruction pertaining to Euclidean proof as well as proofs involving coordinate geometry. A rigorous study of postulates, theorems and formal definitions will be fundamental to this course. Constructions will be infused throughout the curriculum to enhance understanding. Students will work to understand one, two, and three dimensional objects. Students will also receive ongoing use of algebraic principles as it applies to geometry. To meet the requirements of the regents program, students will receive training on the use of the TI-84+ graphing calculator. Students are expected to achieve a minimum average of 85 to remain in this course. If a student's average drops below 85, a conference may be held to discuss the student's placement in the program. Students will take the Geometry CC regents exam in June.

Prerequisite: Minimum June final grade of 85 in Accelerated Math 8X - Algebra 1CC

• *NCAA Approved*

Integrated Algebra II

Grades 10-12
1 Credit

This course will be in place for students who are looking to pursue and refine high level mathematical concepts that are practical. Topics will include the use of exponents and logarithms, right triangle trigonometry, algebraic modeling using polynomials, as well as analytic geometry. Students will learn to apply mathematics to solve various problems that are integrated into today's world.

Prerequisite: Successful completion of Geometry CC.

Accelerated Math 10X-Algebra 2 CC

Grade 10
1 Credit

This is the final course in the regents curriculum for our accelerated students. Students taking this course will be prepared for the material in Algebra 2 CC as outlined by New York State, but in greater depth than the standard regents program. Students completing this sequence may qualify for the Advanced Regents Diploma. The class will develop higher-level algebraic skills and apply them to a variety of scientific, economic and everyday situations. Exponential, logarithmic, trigonometric, and statistical functions are explored. The quadratic formula, higher-level factoring techniques, working with polynomials and rational expressions are a major component of study. In addition, topics in coordinate geometry will allow for the integration of analytical and geometric representations. Topics in measurement and data analysis will round out the curriculum. To meet the requirements of the regents program, students will receive training on the use of the TI-84+ graphing calculator. Students are expected to achieve a minimum average of 85 to remain in the course. If a student's average drops below an 85, a conference may be held to discuss the student's status in the program. Students will take the Algebra 2 CC regents exam in June.

• *NCAA Approved*

Prerequisite: Minimum June final grade of 85 in Math 9X - Geometry CC

Algebra 2 CC

Grade 10-12
1 Credit

This is the last course in the New York State regents curriculum and the standards presented in this rigorous course will be addressed. Students completing this sequence may qualify for the Advanced Regents Diploma. The class will develop higher-level algebraic skills and apply them to a variety of scientific, economic and everyday situations. Exponential, logarithmic, trigonometric, and statistical functions are explored. The quadratic formula, higher-level factoring techniques, working with polynomials and rational expressions are a major component of study. In addition, topics in coordinate geometry will allow for the integration of analytical and geometric representations. Topics in measurement and data analysis will round out the curriculum. To meet the requirements of the regents program, students will receive training on the use of the TI-84+ graphing calculator. Students will take the Algebra 2 CC regents exam in June.

• *NCAA Approved*

Prerequisite: Minimum June final grade of 75 in Geometry CC.

Accelerated Math 11X-Precalculus

Grade 11
1 Credit

This course will provide our accelerated students with a full year of Pre-Calculus. Students will explore advanced algebra and trigonometry and investigate their applications in other disciplines. A comprehensive study of graphing techniques of polynomial, absolute value and rational functions will be undertaken. Advanced

algebraic topics such as the rational root theorem, remainder theorem, synthetic division, exponential and logarithmic functions, polar coordinates and factoring polynomials of higher than second degree will also be studied. In addition, students will also be introduced to the derivative and the concept of a “limit” and study its applications to graphing theory and calculus. In preparation for the work they will be doing in AP Calculus, extended tasks and laboratory-type activities are performed. Graphing calculators will be a significant component of the course. Students are urged to acquire the Texas Instruments TI-84+ graphing calculator. This course is required for placement in AP Calculus. Students are expected to achieve a minimum average of 85 to remain in the course. If a student’s average drops below an 85, a conference may be held to discuss the student’s status in the program. • *NCAA Approved*

Prerequisite: Minimum June final grade of 85 in Accelerated Math 10X - Algebra 2 CC.

Algebra for College

Grade 11-12

1 Credit

This course is designed to prepare students for a college Pre-Calculus course. Topics include the study of functions and their graphs. Students will find real roots algebraically and through methods of approximations. Instruction will be supported by use of the Texas Instruments TI-84+ graphing calculator. Students are urged to purchase the TI-84+ for this course. Students will become proficient in using the calculator as a computational and problem-solving tool. This will have ongoing benefit when they enter college. Logarithmic and exponential functions, the study of matrices, sequences and probability and their applications will also be covered

Prerequisite: Successful Completion of Algebra 2 CC.

• *NCAA Approved*

Math 12-Precalculus

Grade 12

1 Credit

The objectives of this course are to prepare students for college calculus and to broaden the student’s appreciation for the foundations of mathematics and the rationale behind its procedures. Topics include: detailed analysis of polynomials (synthetic division, factor and remainder theorems, rational root theorem, etc.) and sketches of polynomial graphs; special functions and graphing techniques (including properties of symmetry), transformations; complex numbers; more in-depth study of circular and trigonometric functions; exponential and logarithmic functions and their applications; vectors, matrices and an introduction to limits and the derivative. Graphing calculators are required. Students are urged to acquire the TI-84+ graphing calculator.

Prerequisite: Minimum June final grade of 75 in Algebra 2 CC.

• *NCAA Approved*

Advanced Placement Calculus – AB

Grade 12

1 Credit

The subject matter of this course is designed to prepare students for the Advanced Placement Exam in Calculus (AB). After further development of algebraic techniques, the study of functions, limits and continuity introduces the student to the foundations of the calculus. The derivative—the cornerstone of differential calculus—is defined as a limit. Techniques of differentiation and their applications are pursued. The anti-derivative and the definite integral lead to the Fundamental Theorem of Calculus, area under a curve, differential equations, slope fields and applications. The exponential and logarithmic functions and techniques of integration will also be covered. Students will work on “labs” which investigate real world applications of calculus. In keeping with the Advanced Placement curriculum, the graphing calculator will be a vital component of the course. All students should acquire the Texas Instruments TI-84+ graphing calculator. Homework assignments, tests and the AP exam itself will require its use. Students are expected to achieve a minimum average of 85 to remain in the course. If a student’s average drops below an 85, a conference may be held to discuss the student’s status in the program. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam. • *NCAA Approved*

Prerequisite: Minimum June final grade of 85 in Accelerated Math 11X - Precalculus.

SAT/ACT Prep

Grades 11-12

College Board Preparation is a one-semester course designed for sophomores, juniors and seniors who intend to take the SAT and/or the PSAT exams. This class, taught by members of both the English and Math Departments, gives students a comprehensive background in the English and math skills that are necessary for success on the SAT/PSAT. Since it is an interdisciplinary offering, students will be evaluated by both English and Math teachers.

Prerequisite: None

Intro to Computer Science-Gaming and Software Development

Grades 8-12

1 Credit

Intro to Computer Science-Gaming and Software Development is the first course in a sequence designed for students with little or no prior experience in programming. Students will work with languages such as Visual Basic, and Java. Through the development of interactive games and programs, students will become proficient in algorithmic planning and basic software engineering principles. At the completion of this course, students are expected to design, code, debug, and utilize small programs that can accomplish useful goals. It will serve as solid preparation for students wishing to pursue coding on the collegiate level.

Prerequisite: Students must be taking or have taken Algebra 1 CC to enroll in this course.

Computer Science Research

Grades 9-12

1 Credit

Computer Science Research is intended for students with moderate coding experience. Students will continue their exploration of commonly used programming languages, and will use these languages to develop more complex applications that utilize advanced functions and methods. Students will use applied logic and relevant mathematical theories to concisely design and debug programs that are efficient and versatile. This course will expand upon previous work with Java, but students will also gain experience with Python. At the completion of this course, students are expected to be proficient in common useful Java algorithms, as well as possess the ability to independently design and test advanced applications. Students may take this course multiple times learning to build upon previously developed software and will develop independent projects that are tailored to their specific interests and goals.

Prerequisite: Intro to Computer Science-Gaming and Software Development



Physical Education Department

The Babylon Physical Education Department believes a developmentally appropriate and comprehensive experience in health and physical education is essential for meeting the diverse needs of all students. Our program will foster the development of motor skills, physical fitness, emotional strength, maturity, values, healthful decision making and the pursuit of lifelong health and fitness. Participation in health and physical education is an integral and inseparable part of the total educational experience.

Our program will follow the New York State Physical Education Learning Standards:

1. Personal Health and Fitness – Students will have the necessary knowledge and skills to establish and maintain physical fitness, participate in physical activity, and maintain personal health.
2. A Safe and Healthy Environment – Students will acquire the knowledge and ability necessary to create and maintain a safe and healthy environment.
3. Resource Management – Students will understand and be able to manage their personal and community resources.

Activities

Students will be involved in large and small groups and participate in individual games, team sports, fitness and game activities.

Team Sports – Football, Soccer, Basketball, Volleyball, Team Handball, Hockey, Softball

Individual Sports – Tennis, Badminton, Frisbee

Fitness – Step Aerobics, Running/Jogging, Walking, Strength Training, Fitness Challenge

Project Adventure – Rock Climbing, Stunt Ladder, Climbing, Cooperative Games

Junior High Health

Grade 8

The Junior High Health education course design is based upon the HealthSmart curriculum. The intention is to build a group of students into a community of learners by developing the following: healthy attitudes, peer-norms, skills and support systems that enable children to think choose and act in healthy ways. Eighth grade students will take one (1) 20-week section of Health education. Topics include: emotional and mental health; violence and injury prevention, improving health behaviors; tobacco, alcohol and other drug prevention, nutrition and physical activity; abstinence and puberty; HIV, STD and pregnancy prevention.

Senior High Health

Grades 10-12

½ Credit

The Senior High Health education course is designed to inform students of behaviors that put an individual at risk and to introduce strategies to make healthy decisions. Areas of study include: emotional and mental health; violence and injury prevention; tobacco, alcohol and other drug prevention; nutrition and physical activity; improving health behaviors; abstinence and sexual health; HIV, STD and pregnancy prevention. The course is one semester in length and is a requirement for graduation.

SPORTS AT BABYLON

Sport	Girls	Boys	Girls and Boys
Baseball	-	Varsity, JV, JH	-
Basketball	Varsity, JV, JH	Varsity, JV, JH	-
Cheerleading	Varsity, JV, JH	-	-
Cross Country	Varsity	Varsity	JH
Field Hockey	Varsity, JV, JH	-	-
Football	-	Varsity, JV, JH	-
Golf	-	-	Varsity
Gymnastics	Varsity, JV, JH	-	-
Lacrosse	Varsity, JV, JH	Varsity, JV, JH	-
Soccer	Varsity, JV, JH	Varsity, JV, JH	-
Softball	Varsity, JV, JH	-	-
Tennis	Varsity, JV, JH	Varsity, JV, JH	-
Track & Field	Varsity	Varsity	JH
Volleyball	Varsity, JV, JH	-	-
Wrestling	-	Varsity, JV, JH	-
Winter Track	Varsity	Varsity	-

Practical Arts Department

Courses in the Practical Arts Department provide real life, hands-on instruction for all students regardless of their career direction. A variety of classes are offered in three curriculum areas: Business, Technology and Family and Consumer Sciences. Students will gain skills and competencies, outlined and required by the State Education Department Learning Standards, that:

- Provide a solid foundation for transition from high school to higher education, as well as the workplace.
- Prepare for a workplace constantly changing by technology and the challenges of a global economy.
- Allow career exploration, planning and exposure.
- Enable wise consumer choices.

Because of the interdisciplinary nature of Practical Arts, both course content and activities at the middle and secondary levels address New York State Learning Standards in Math, Science, English and Social Studies, in addition to Learning Standards in Career Development and Occupational Studies (CDOS). This enables select courses in the three Practical Arts Curriculum areas to meet graduation requirements in English, Math, Science and Social Studies. Students should check with Practical Arts Staff or their guidance counselor for information about these courses.

Career & Technical Education Middle Level Program



The Practical Skills program in grades 7 and 8 is a series of ten-week modules in Family and Consumer Sciences and Technology that focus on our society, its people, and the environment as it relates to personal development and technological advancement. Each student will have the opportunity to develop skills including communication, decision making, problem solving, and management that will help each student develop academically. These skills are developed through hands-on production and problem-solving activities within the Computer labs, Industrial Technology labs and Food Preparation labs and classroom.

PRACTICAL SKILLS

Grade 7

10 weeks Introduction to Technology
10 weeks Technology (Systems and Production)
10 weeks Family & Consumer Science 7

Grade 8

10 weeks Technology (Manufacturing)
10 weeks Family & Consumer Science 8

Introduction to Technology

Grade 7

Students will learn mechanical drawing skills, enabling them to read and draw plans for simple projects. Students will acquire skills necessary to use layout tools, hand tools and machine tools in a safe and proper manner, and utilize these skills to complete a problem-solving project.

Technology (Systems and Production)

Grade 7

Students will learn skills necessary solve problems and think critically. Students will study and apply technical methods to design, build, test and evaluate models that address real world problems. Using flow charts, students will learn to compare and contrast technical resources and engineer solutions in a structured and fun learning environment.

Family & Consumer Science 7

Grade 7

Seventh grade students are prepared to apply their decision making and management skills to the constantly changing society in which they live. Students engage in real life, relevant tasks that relate to a variety of content topics including nutrition and wellness, culinary math and measuring, basic food preparation, safety practices, and clothing management. Students are prepared to meet their present and future responsibilities as family and community members, consumers, home managers and wage earners.

Technology (Manufacturing)

Grade 8

Students will learn and use 2D and 3D computer aided design to engineer complex solutions to practical problems. Students will also design and build C02 racing cars to study engineering, Newton's laws of motion, and mathematics. Data acquisition and weight/speed analysis are used to determine the fastest car each quarter.

Family & Consumer Science 8

Grade 8

8th grade students will learn about college and career readiness by exploring a career of their choice and learning to prepare for the workplace (job applications, resume/cover letter writing, interview skills, and work ethics). Students will also become financially literate, covering topics like checking & savings accounts, debit and credit cards and budgeting, while making connections to the current state of the United States economy. Students will also take a look into the business world by learning how to start and run a successful business. Students will be responsible for keeping accurate records while applying the financial skills learned in the class.

BUSINESS

“My model for Business is the Beatles. They were four guys who kept each other’s kind of negative tendencies in check. They balanced each other and the total was greater than the sum of the parts. That’s how I see business: great things in business are never done by one person, they’re done by a team of people.” – Steve Jobs, Apple

Business Education is a broad and diverse discipline, providing elective courses that enable students to prepare for entry-level employment, fulfill business-related personal responsibilities, and/or prepare for post-secondary course work. Many of Babylon High School’s graduates go on to major in Business/Management in college; Business Education courses provide an excellent opportunity to experience college-level courses, and earn college credit prior to making that commitment. The Business/Occupational Career Paths are designed to ensure the correlation of business and marketing education and to provide a variety of options for students to meet CDOS standards. The staff of the Business Department remains always willing to discuss student and/or parent questions or concerns regarding these courses. Business courses are open to all students; students are encouraged to select courses which will enhance college and career opportunities. Students who complete Career Path courses of study in Business Education will:

- Have acquired the vocabulary and practical skills necessary to function and compete in the business world.
- Have demonstrated a level of competency in keyboarding and computer literacy.
- Have the awareness to identify sound ideas and methodologies as they apply to new information, experiences and situations in business. Have demonstrated an awareness of, and the ability to make, rational career and educational choices.
- Have demonstrated an awareness of, and the ability to make, rational career and educational choices.
- Have the ability to describe and analyze financial factors and computation involved in the development and interpretation of financial systems in the business world.
- Have developed self-esteem, social awareness, economic, technological, and occupational competencies to meet personal needs in a social and vocational environment.
- Have an opportunity to receive up to **21** college credits for course work in the Business Department.

NOTE: Students are exempt from the 3-unit LOTE (Language Other Than English/Foreign Language) requirement for graduation if they take and pass the first LOTE course and Checkpoint B exam PLUS a 5-unit Business/Occupational Career Path. The Director of the Practical Arts can provide additional information/clarification.

Suggested Course Pathway for Business Classes:

- Grade 9 - Microsoft Office
- Grade 10 - Advanced Computer Essentials (prerequisite Microsoft Office)
 - College Finance
 - College Accounting
 - Career & Financial Management
- Grade 11 - College Accounting
 - College Marketing

- College Virtual Enterprise
- College Finance
- Career & Financial Management
- Grade 12 - College Accounting
- College Marketing
- College Finance
- College Virtual Enterprise
- Career & Financial Management

Microsoft Office*

Grades 9-12
½ Credit

This course is designed to develop alphabetic as well as numeric keyboarding skills. Students will demonstrate mastery of the foundation skills using personal computers to develop competencies essential for college as well as the work place. Topics include: personal business letters, memorandums, manuscripts, MLA style for term papers, bibliography, outline, etc., tables and manipulation of graphics. This course uses Microsoft Office 2010 (Word, Excel, Access, PowerPoint, Outlook and Publisher) to create databases, spreadsheets, presentations and communications. In addition, students will utilize Google Apps and Google Classroom and will learn how to create webpages. Cyber Security and programming will also be discussed. An essential course for college bound students, computer students, or anyone looking to improve their productivity on the computer. **This is the first business elective available to freshmen.**

Advanced Computer Essentials*

(Not Offered 2016-2017)

Grade 10-12
½ Credit

This course continues using Microsoft Office and will expand instruction in Excel, Access, PowerPoint and Word. Additional topics to be covered will include Google Apps and Google Classroom, web page creation, cyber security, internet ethics and graphic design. Career options in computer related fields will also be covered. **Students who take this course will sit for the Microsoft Office Specialist Certification Exam.**

Prerequisite: Microsoft Office

College Accounting

3 College Credits - LIU/C.W. Post

Grades 10-12
1 Credit

This is a 3-credit, college-level course affiliated with C.W. Post College through the LIU High School Scholars Program. This is an accelerated accounting course particularly of value for students who plan to study business administration or related fields while in college. It includes analysis, interpretation, and preparation of financial statements for proprietorships, partnerships, and corporations. Students will learn the basic structure of the accounting cycle and will become familiar with accounting transactions typically seen in the business world. Accounting software such as QuickBooks and Peachtree will be utilized. At the conclusion of this course, students will sit for the **Quickbooks Online User Certification Exam**. LIU requires student average of 80 or above for enrollment in this course for college credit. The cost of this course is approximately \$490.00.

Advanced Accounting (Not offered 2016-2017)

Grades 10-12
1 Credit

This course is designed for students with determined career objectives in the accounting profession. Greater emphasis is focused on forms of business ownership. Each part is developed around a specific type of business organization – sole proprietorship, partnership, and corporation. Emphasis is also placed on a departmentalized merchandising business and a manufacturing business. End of fiscal period work is presented for each type of business organization. In addition, automated accounting concepts will be taught on microcomputers with a number of exercises throughout the text. This format completes the accounting cycle for each type of business. Prerequisite: Accounting

College Marketing

6 College Credits – LIU/C.W. Post

Grades 10-12
1 Credit

Principles of Marketing and Consumer Behavior

Marketing is an introductory course exploring all aspects of marketing and related career opportunities. Students will discuss various topics as if they are members of a marketing firm. Topics include: marketing research, survey writing, market segmentation, channels of distribution, personnel management, service businesses,

product life cycle, sports management and advertising, innovations and consumer needs and online marketing. Students will develop marketing strategies and present market plans. Guest speakers will address current marketing trends. This course is offered for 6 college credits (2 semester classes) through the LIU High School Scholars Program at C.W. Post. The cost for this course is approximately \$490.00 for 3 credits, to be paid by the student directly to C.W. Post. LIU requires a student average of 80 or above for enrollment in this course for college credit.

College Sports & Business Law **3 College Credits - SUNY Farmingdale** **Grades 10-12**
(Cyber Law, Entertainment Law, Sports Law) **1 Credit**
Students will be introduced to several aspects of the American legal system. Pertaining topics include criminal and civil law, court procedure, the law and minors, consumer law, employer-employee relations, and buyer-seller relations. Students will examine issues in Entertainment and sports law and will examine current trends regarding cybersecurity and intelligence. Additionally, a large portion of class time will be devoted to contract law and contractual agreements for business and personal use. Occupations in the legal field and law in other cultures will also be discussed. The cost for this course is approximately \$140.00 for 3 credits, to be paid by the student directly to SUNY Farmingdale. Credit for this course **may be used to meet the fifth unit of Social Studies requirement for graduation. (Economics)** • *NCAA Approved*

College Finance **3 College Credits - SUNY Farmingdale** **Grades 10-12**
 ½ Credit
This course will serve as a basic introduction to handling money and finances. Learn about basic financial responsibilities including career decisions. Emphasis will center on banking and budgeting as well as basic decision making with regard to credit and finance. Instruction will be enhanced with computer simulations, real-world work practical's and guest speakers whose careers focus on this area. This class will culminate with both a national financial certification examination and a state exam. Students will also learn how to buy and sell stocks, how to read an earnings report and how to research and invest in a company. The cost for this course is approximately \$140.00 for 3 credits, to be paid by the student directly to SUNY Farmingdale.

College Virtual Enterprise **3 College Credits - SUNY Farmingdale** **Grade 12**
 1 Credit
This class teaches students about business, entrepreneurship, finance, economics and technology through a task-based curriculum and hands on activities. Guided by a teacher/facilitator and business mentors, students create and manage a virtual company, conducting business with other virtual firms nationally and internationally. This class can be used as a culminating capstone class to utilize business concepts learned in prior business classes such as Accounting and Marketing. The class includes both academic and applied learning. VE has also developed a curriculum that aligns economics concepts to the day-to-day activities of the 'firm'. Economics for the Virtual Enterprise is based on the New York State Education Department's core curriculum mandate of the Board of Regents that requires all students to complete a half-unit study in economics. The cost for this course is approximately \$140.00 for 3 credits, to be paid by the student directly to SUNY Farmingdale. Prerequisite: College Accounting, College Marketing or Sports and Business Law are required prior to enrolling in this class.

College Virtual Enterprise II **3 College Credits - SUNY Farmingdale** **Grades 11-12**
 1 Credit
This class teaches students about business, entrepreneurship, finance, economics and technology through a task-based curriculum and hands on activities. Guided by a teacher/facilitator and business mentors, students create and manage a virtual company, conducting business with other virtual firms nationally and internationally. This class can be used as a culminating capstone class to utilize business concepts learned in prior business classes such as Accounting and Marketing. The class includes both academic and applied learning. This class can be taken for college credit through Farmingdale State College. VE has also developed a curriculum that aligns economics concepts to the day-to-day activities of the 'firm'. Economics for the Virtual Enterprise is based on the New York State Education Department's core curriculum mandate of the Board of Regents that requires all students complete a half-unit study in economics. The cost for this course is approximately \$140.00 for 3 credits, to be paid by the student directly to SUNY Farmingdale. Credit for this course **may be used to meet the fifth unit of Social Studies requirement for graduation. (Economics)**
Prerequisite: Virtual Enterprise I

Career and Financial Management (CFM)

Grades 10-12

½ Credit

Take control of your future! This course will help students acquire knowledge of careers and basic financial management concepts. Students will explore careers available to them and will understand the education, training and other requirements necessary for these careers. Students will be introduced to basic financial management concepts that will enable them to make wise financial choices. Real world money management topics will include income, credit, spending, saving and investing. Students will learn how to set financial goals, create budgets, maintain checking and savings accounts, choose investment options, and will investigate buying a house and different options available.

TECHNOLOGY

Technology Education is for everyone, as it offers all students the unique opportunity to bring to life their other acquired academic skills, especially math and science. Through a laboratory setting stressing subject exploration, experimentation, measurement and evaluation, students engage in problem solving, hands-on activities that stimulate critical thinking, develop creative ability, and promote the principles of design and production. Technology courses help build strong **STEM** skills (Science, Technology, Engineering and Mathematics). STEM Careers are in high demand and our courses help build a framework for these high paying jobs and education pathways. All courses are taught using approved state curricula and comply with NYSED Math, Science, & Technology (MST) Standards. Other courses are offered that may be used to satisfy the school district's local graduation requirement of ½ unit in Computer Studies.

Upon completion of the course of study in technology, the student will:

- Have demonstrated a proficiency to communicate through the utilization of the graphic and electronic media.
- Have acquired the ability to build self-esteem by thinking critically, demonstrating problem solving skills, and organizing facts logically as they relate to the world of technology.
- Have developed a proficiency in interpreting and incorporating language arts, math, and science skills into technology.
- Have an appreciation, awareness, and working knowledge of tools and machinery as it relates to all facets of technology.
- Have an awareness of the technology resources and acquire skills necessary to pursue a post-secondary program and/or gainful employment.
- Have an overview of the modern technological and automated international world of manufacturing.
- Have prepared a portfolio of basic technology fundamentals that would be applicable in pursuing a vocational interest.

Project Lead The Way

PLTW is a national program forming partnerships among public schools, higher education institutions and the private sector to increase the quantity and quality of engineers and engineering technologists graduating from the country's educational systems. It is about applying engineering, science, math, and technology to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the "right" answer. They learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation.

In PLTW Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

PLTW Design and Drawing for Production

3 College Credits – RIT

Grades 9-12

1 Credit

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. This course offers the

possibility to earn college credit. **This course meets the NYS fine arts requirement for graduation.**

Prerequisite: Students must be taking or have taken Algebra 1 CC to enroll in this course.

PLTW Principles of Engineering

3 College Credits – RIT

Grades 10-12

1 Credit

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. This course offers the possibility of earning college credit. **This course meets the NYS third credit of math requirement for graduation.**

• *NCAA Approved*

College Computer-Aided Design*

3 College Credits – SUNY Farmingdale

Grades 10-12

½ Credit

This class utilizes the industry standard Autodesk AutoCAD and Autodesk Inventor software. The study and application of 2D drafting and 3D solid modeling technology will prepare students for careers in fields that include but are not limited to engineering, architecture, product design, and manufacturing. An introduction to CAM (computer-Aided Machining) and rapid prototyping using a 3D Printer will also be covered. Take advantage of this unique opportunity to learn and operate one of the most sought after design application packages in the field of engineering while earning college credit. This class is offered for college credit through the Farmingdale State School of Engineering. The cost for this course is approximately \$140.00 for 3 credits, to be paid by the student directly to SUNY Farmingdale.

Manufacturing/Construction Systems

Grades 9-12

1 Credit

Be challenged; learn through practical hands-on activities when you elect to take Manufacturing/ Construction Systems. These combined courses have given a new direction and meaning to an old course called Wood Technology. Design, create, manufacture, construct, and experiment are a few of the terms that you will encounter and utilize during the course. Using the Wood Tech laboratory as the base of operations, you will have the opportunity to explore, using a practical problem-solving approach, the following modules: product design/planning, tool selection and utilization, material selection/computations, production processes, jig design and fabrication, mass production, assembly criteria, finishing and evaluation, quality control, marketing and distribution. Incorporating these modules, the focus of the course will stress product design and production with each student producing products that will meet the course requirements and their individual needs. No experience necessary, on the job training, great rewards, and individual challenges are an invitation that is hard to refuse.

Digital Video Editing*

Grades 10-12

½ Credit

Are you interested in creating your own DVD movies? This one-semester course will introduce students to the basics of video editing. Students learn to edit stock footage and, using mini-DV camcorders, will direct, edit, narrate, and produce professional looking DVD movies. In addition, students will design titles, credits, transitions, and animated DVD menus for their movies using state of the art software. No prerequisite.

Computer Animation*

Grades 10-12

½ Credit

This ½ year course will introduce the student to the process of simple computer animations. The student will study the control of computer, object motion, and other processes that are necessary to produce computer animations. This course is designed as an introductory course; in this hands-on class students will learn basics of computer graphics and animation for the Web or personal expression. Topics to be covered will include storyboard layout, graphic paint programs, text manipulation, sound, scripting, time acceleration, and special effects. No prerequisite.

The World of Technology

(Not Offered 2016-2017)

Grades 10-12

1 Credit

This course will provide students with opportunities to become engaged in critical thinking as they design and

develop solutions to real world problems. Incorporating engineering design and problem-solving methods, students will successfully address the commencement level key ideas and performance indicators of the MST Learning Standards. The World of Technology addresses Commissioner’s Regulation 100.5(j), which states “a commencement level course in technology education **may be used as the third unit of credit in science or mathematics but not both.**”

Architectural Drawing

(Not Offered 2016-2017)

Grades 10-12

½ Credit

Architectural Drawing “Yesterday, Today, and Tomorrow” gives you, the student, the unique opportunity to explore, and investigate the many facets of the subject. The core of the course focuses on the following areas: the evolution of architecture, architectural drawing practices, designing for tomorrow, developing architectural plans, three-dimensional architecture, and computerized architectural design. Designing for tomorrow provides a direction for architecture students to develop and design an individualized home for the future based on your needs and interests of today. The course is designed to encompass the interests of all students who have an interest in art, interior design, architecture, and technology.

Prerequisite: Design and Drawing for Production

***These courses may be used to satisfy the school district’s graduation requirement of ½ unit in Computer Studies.**

FAMILY & CONSUMER SCIENCES

Family and Consumer Sciences is a practical area of study that utilizes knowledge from all subject areas to enrich every aspect of everyday living. Students develop and acquire new talents and skills, learn about themselves and explore career possibilities. In all courses, students will use problem-solving steps to solve real life problems with consideration to fulfilling short- and long-term career and/or personal goals. Also, they will actively be involved in creating and maintaining a healthy living and learning environment. **Each course addresses New York State Learning Standards, and the *Science of Foods* course satisfies the third Science credit requirement for graduation.**

FAMILY & CONSUMER SCIENCES
OCCUPATIONAL CAREER PATH

<u>Course</u>	<u>Unit</u>
Culinary Arts I.....	1
Culinary Arts II.....	1
The Science of Foods.....	1
Advanced Principles of Food Preparation	1
Independent Study (Foods)	½
Fashion Marketing.....	½
Fashion Design & Production	½
College Child Psychology/Human Development	1
Psychology for Young Adults	½
High School Exit Class.....	½
Independent Study (Child Psychology).....	½
CDOS 1	½

Culinary Arts I

Grades 9-12

1 Credit

Learn culinary skills and techniques during this full year course. Knowing how to prepare delicious and nutritious food is a skill that all young adults should be familiar with before heading off to college or living independently. These skills include; preparing basic to challenging recipes while learning about different cooking techniques and methods, enjoying a wide variety of appetizing foods while learning to use special cooking equipment, and discovering how food choices are related to health and wellness. Students will explore the following units:

cooking methods (sautéing, roasting, braising, grilling), baking and pastry (yeast breads, pie crusts, candy making, cake decorating), and food lab competitions (cupcake wars, chopped!, pasta salad cook off, cake decorating contest, meals under \$10).

Culinary Arts II

Grades 10-12

1 Credit

Explore foods from different countries and regions within the United States. Preparation of ethnic and regional cuisine is the focus in this half year course. Students will examine the relationship between food and culture, learn about the importance of culture, geography, ethnicity, religion, race in relation to food, new cooking techniques and equipment used to prepare a wide assortment of ethnic dishes, understanding unique nutritional practices, food rules and priorities for cultures and countries around the world.

Prerequisite: Culinary Arts I

The Science of Foods

(Not Offered 2016-2017)

Grades 11-12

1 Credit

Take a bite out of science, eat your experiments. There is chemistry occurring in the food lab. Take this course and discover the scientific process of producing, processing, preparing, evaluating and consuming food. Laboratory experiments will focus on the close relationship between food and the scientific world. Students will: prepare a variety of foods and connect them to chemistry, develop a recipe using your knowledge of science and food preparation, explore the relationship of food to the functioning of the body, experiment with preservation of foods, and investigate career opportunities in food science.

This course satisfies the NYS third science credit requirement for graduation.

Advanced Principles of Food Preparation

(Not offered 2016-2017)

Grades 10-12

1 Credit

Advanced Principles of Food Preparation is a comprehensive full year foods course. Tuition for students taking the course for college credit will be \$200. The curriculum follows the CU114 course at Suffolk Community College. Students taking the course for college credit must have at least a B+ average. This class will teach principles and practices necessary to effectively perform in management positions in the food service industry. Development of effective and efficient managerial skills for commercial or institutional kitchens will be practiced.

Prerequisite: Culinary Arts 1 & 2

Fashion Marketing

(Not Offered 2016-2017)

Grades 9-12

½ Credit

Are you interested in the world of fashion? If you are, this is the course for you. This course is designed to introduce you to the fashion industry. We will focus on current fashion trends and through a variety of hands on projects. You can learn what makes the fashion industry exciting. Students will: explore the four components of fashion in relation to today's fashion trends, acquire an understanding of fashion terminology, learn about marketing strategies used in retail fashion, identify the phases and lengths of fashion cycles, explore domestic and international fashion centers and designers.

Fashion Design and Production

(Not offered 2016-2017)

Grades 9-12

½ Credit

Fashion is a part of everyday life! Everyone buys and wears clothing. Styles are constantly changing to meet the demands of consumers. This course focuses on the impact that the fashion industry has on everyone. Students will learn the fundamentals of design and will study basic design concepts, pattern-making, and construction and production procedures. Career possibilities will also be explored.

Prerequisite: Fashion Marketing

College Child Psychology

3 College Credits – LIU/C.W. Post

Grades 11-12

1 Credit

Discover how a human being grows, learns, and interacts with others in the surrounding world. Explore factors that influence a child's physical, socio-emotional, and cognitive development throughout the early years. Students will: become a "student teacher" in our community preschool and practice what you are learning by working with 24 three- and four-year old children, learn principles of human development that have influenced your growth and personality, study children's behavior through observational research and gain valuable insight into why people behave in certain ways, learn effective behavior guidance techniques for people of all ages,

take part in the “Baby Think it Over” simulated parenting readiness program, create, plan and implement age appropriate lessons plans, explore career and community service possibilities and in the fields of teaching and child studies. Knowledge of child psychology can be applied to most fields of study and careers. Students will take part in experiences that contribute to being an active member of their community.

This course is offered for 3 college credits through the LIU High School Scholars Program at Long Island University, C.W. Post campus. The cost for this course is approximately \$490.00, to be paid by the student directly to LIU. Students enrolled in this course are encouraged to take the class for college credit.

Prerequisite: Students who take this course should have a genuine love for young children. Department recommendation required.

The High School Exit Class

(Not Offered 2016-2017)

Grades 11-12
½ Credit

The High School Exit Class is an exciting course designed for ALL students to promote a successful transition from high school to college, and to the future world of work. Students will learn and develop note-taking, interpersonal, study, and career-readiness skills necessary for success. Students will have the opportunity to explore careers using the Virtual Internship program, which simulates real-life careers that may be of interest to them in the future. This comprehensive course will provide students with opportunities for academic enrichment and assistance, and assist in the development of organizational and time-management skills. A portion of the course work will be dedicated to college preparation and career exploration. Recommended for students in grades 11 and 12. Class will meet every-other day for a full year.

Independent Study

Grades 11-12
½ Credit

This course is available to advanced students of Family and Consumer Science. After completing all of the courses that are offered in a particular subject area, such as foods or child studies, students may elect to have a semester of more in-depth study on an independent basis. A comprehensive project will be planned outlining specific goals and planning learning experiences to achieve them. Evaluation will be done by both the student and teacher.

Career Development and Occupational Studies (CDOS 1)

Grades 9-12

Career Exploration is a one semester elective that is co-taught with a special education teacher. The course addresses four NYSED standards--Career Development, Integrated Learning, Universal Foundation Skills and Career Majors. Students will participate in five units designed to facilitate an understanding of workplace expectations, develop both technical and interpersonal work skills and increase self-awareness of vocational aptitudes and goals. Instructors will use a variety of methods to engage students in modules addressing self-discovery, world of careers, workplace skills, preparing for employment and worldwide skills. This course is a pre requisite to CDOS 2 which is offered to students in the senior year.

Science Department

The Science Department adheres to the learning standards for Science and Technology as proposed by the New York State Education Department. These include:

Analysis, Inquiry, and Design

Students will use mathematical analysis, scientific inquiry, and engineering design, as appropriate, to pose questions, seek answers, and develop solutions.

Information Systems

Students will access, generate, process, and transfer information using appropriate technologies.

Science

Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.

Technology

Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems to satisfy human and environmental needs.

Interconnectedness: Common Themes

Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to those and other areas of learning.

Interdisciplinary Problem Solving

Students will apply the knowledge and thinking skills of mathematics, science, and technology to address real life problems and make informed decisions.

The science curriculum is designed to promote independent use of inquiry skills, critical thinking and problem solving. There is an emphasis on hands-on laboratory experiences. 21st century skills are incorporated into science lessons in order to prepare students for college and careers.

Students begin their experience in Science 7, an interdisciplinary course designed to stimulate interest in science while emphasizing reading and writing skills. Following Science 7, students proceed to Science 8 where their interdisciplinary studies continue as they prepare for the NYS Science 8 state examination. Some students may be accelerated in the 8th grade and placed in the Living Environment Accelerated course in lieu of Science 8.

The Honors program in science begins with Earth Science Honors for those students who have achieved great success in their previous science courses. Elective courses, such as Syracuse Forensics, Marine Science, and Ecology are perennial favorites.

The Science Advanced Placement program for outstanding students consists of college-level courses in which students may gain college credit. These courses are very demanding and require deep insight into scientific principles.

Science 7

Grade 7

The seventh grade science curriculum uses STEM (Science, Technology, Engineering, and Mathematics) inquiry and project based learning. Students use the scientific method daily to learn the introductory engineering and literacy skills needed to investigate our understanding of Earth and Space, such as the Big Bang Theory, space exploration, plate tectonics, and global climate change. In addition, students receive a strong foundation in Chemistry in order to enhance their understanding of the composition, structure, properties, and changes that occur within the matter of the Universe.

Science 8

Grade 8

The eighth grade science curriculum continues to incorporate inquiry and project based learning as students study topics in Biology and Physics. Students are given ample opportunity to think critically about these topics as they read, write, and collaborate with one another. Hands-on opportunities for learning are an integral part of the course as they build their scientific skills. The course culminates with students completing the New York State 8th Grade Science Assessment, covering topics from Science in grades five through eight.

Living Environment

Grades 9-12

1 Credit

This course is designed to foster student awareness of the biosphere through the study of human anatomy and physiology, maintenance in plants and animals, biochemistry, reproduction and development, genetics, evolution and environmental concerns. A series of laboratory investigations will aid the student in understanding the concepts of the course. The course culminates with the NYS Living Environment Regents exam. • *NCAA Approved*

Accelerated Living Environment

Grade 8

1 Credit

Students may be selected to join the Living Environment Accelerated course after Science 7. These students are among the highest achievers in both science and math. Students must be responsible and mature enough to enter the Regents program early. The course also culminates with the NYS Living Environment Regents exam. • *NCAA Approved*

Co-requisite: Concurrent enrollment in Math 8X.

STEAM 9

Grade 9

½ Credit

S.T.E.A.M. 9 is a supplementary science course that provides inquiry based projects to enhance skills in science, technology, engineering, art, and mathematics. Course content is designed to enhance the student's understanding of Science through the use of modules. These modules include collaborative, research based, engineering projects. Google classroom is used to organize student work and assignments, improve technology skills, and allow collaboration between teachers and students. Students participate in science projects to connect with professionals in the field and the community. Modules emphasize hands-on skills that will prepare students for careers in STEAM fields. This class runs on alternating days.

Physical Setting/Earth Science

Grades 9-12

1 Credit

The content of this course is based on the NYS Earth Science Curriculum. It is a laboratory program that investigates topics in earth sciences such as astronomy, geology, and meteorology. Through collaborative hands-on opportunities students will explore these topics and the natural world around them. The use of reference tables is relied upon to minimize the memorization of facts. The course culminates with the NYS Physical Setting/Earth Science Regents exam. • *NCAA Approved*

Physical Setting/Earth Science Honors

Grade 9

1 Credit

The Honors Earth Science course will enhance the Earth Science Regents curriculum and will offer students the opportunity to challenge themselves academically. Students enrolled in the Honors Earth Science course will gain exposure to and an understanding of Earth Science that is both broader and deeper than the standard curriculum. The course culminates with the NYS Physical Setting/Earth Science Regents exam.

Prerequisite: Students enrolled into the Honors Earth Science Program must have achieved an overall average of 90% or higher in Accelerated Living Environment or a 95 or higher in Living Environment Regents. • *NCAA Approved*

STEAM 10

Grade 10

½ Credit

S.T.E.A.M. 10 is a supplementary science course that provides inquiry based projects to enhance skills in science, technology, engineering, art, and mathematics. Course content is designed to enhance the student's understanding of Science through the use of modules. These modules include collaborative, research based, engineering projects. Google classroom is used to organize student work and assignments, improve technology skills, and allow collaboration between teachers and students. Students participate in science projects to connect with professionals in the field and the community. Modules emphasize hands-on skills that will prepare students for careers in STEAM fields. The projects and modules offered in STEAM 10 will be unique to this course and will cover different concepts than those in STEAM 9. This class runs on alternating days.

Physical Setting/Chemistry

Grades 11-12

1 Credit

This course of study represents a modern view of chemistry suitable for pupils with a wide range of skills and abilities. Laboratory work is designed to encourage pupils to look for relationships. Each exercise is designed to investigate a problem or concept related to the area of study. Among the areas of study are atomic theory, organic chemistry, kinetics of equilibrium and acids, bases and salts. The course culminates with the NYS Chemistry Regents exam. • *NCAA Approved*

Prerequisites: Students are required to have obtained a passing overall average in Earth Science, as well as on the Earth Science Regents exam, or 80% in Physical Science, successful completion of Geometry CC and a passing grade on the Geometry CC Regents exam.

Physical Setting/Chemistry Honors

Grade 10-11

1 Credit

This course is designed for students with a strong interest in science or science related fields of study. This course places emphasis on the theoretical concepts of chemistry and is taught as an inquiry based class – both in discussion sessions as well as during laboratory sessions. Many of the questions posed in class, on homework, and on laboratory assignments will be designed to help students develop higher-level critical thinking skills. Students will get many opportunities for hands-on experiences in chemistry, and will also gain experience in technical writing with formal lab write-ups, similar to a college format. Computers will also be used in the lab for both research and data collection. There will be much more independence expected of the students, both in homework and lab procedures than the Regents program. The course culminates with the NYS Chemistry Regents exam. • *NCAA Approved*

Prerequisites: Students are required to achieve a 90% minimum in Honors Earth Science or a 95% or higher in Regents Earth Science, successful completion of Geometry CC and a passing grade on the Geometry CC Regents exam.

The Physical Setting/Physics

Grades 11-12

1 Credit

This course should be considered by all students interested in pursuing an academic program of study in college. The physical environment is studied through concentrated study in four major units – Mechanics, Wave Motion and Light, Electricity, and Nuclear Physics. In addition to the class lectures, special attention is given to the laboratory phases of the course to provide each student with the opportunity to learn the practical aspects of the science. This course culminates with the NYS Physical Setting/Physics Regents exam. • *NCAA Approved*

Prerequisites: Students are required to obtain a passing overall average in Chemistry, as well as a passing grade on the Chemistry Regents exam.

The Physical Setting/Physics Honors

Grades 11-12

1 Credit

This course is designed for students with a strong interest in science or a science-related field of study and interested in pursuing a degree in science or the medical field in college. This course takes the topics covered in Regents Physics and covers them in greater depth. Honors students will often be expected to solve problems that require more synthesis, more difficult mathematics, and more abstract thinking. Also, certain topics will be covered in this course that are not covered in Regents Physics. The course culminates with the NYS Physical Setting/Physics Regents exam. • *NCAA Approved*

Prerequisite: Students are required to achieve a 90% or higher in Honors Chemistry or a 95% or higher in Regents Chemistry.

Introduction to Research

Grades 8-10

1 Credit

Research 1,2,3,4

Grades 9-12

1 Credit

These courses are designed to offer interested students the opportunity to become truly immersed in scientific research. Students will develop their preliminary research skills in the Introduction to Research course. This course was developed to expose students to the fundamental skills required in scientific research and introduce them to equipment used in the field of science. Introduction to Research is a **prerequisite** to Research 1,2,3,4.

Prerequisite: Students should achieve a minimum grade of 85 on both the Science 7 final exam and the Math 7 final exam

Research 1,2,3,4 are courses designed to enable students to improve their research skills, including technological and scientific literacy. Students will become accustomed to reviewing scientific journals and using their findings for their own authentic research. Students will be required to conduct independent, hands-on research and will be mentored throughout the process. Students in upper level research courses will also be required to enter their work in scientific competitions. The Research program at BHS is rigorous and inquiry based. It requires students to work collaboratively, as well as independently.

Students who wish to participate in the Introduction to Science Research program **must complete a written application**, This application, including a writing sample, will be submitted to the teacher in accordance with the deadline established. Applications will be reviewed by a committee.

To continue into the upper level Research courses (Research 1,2,3,4) students must achieve a minimum grade of 90 on mid-year and summative assessments. Students must also receive the approval of the Science Research teacher and the Director of the Science Department.

Physical Science

Grades 10-12

1 Credit

This course is designed to allow students to explore the basic concepts of physical science. The course includes an introduction to the fundamental concepts of physics and chemistry as it explores the relationship between matter and energy. Students will investigate forces and motion, chemical and physical properties of matter, and ways in which matter and energy interact within the natural world. Students will also be encouraged to explore the relationship between science and everyday life through hands-on laboratory investigations, group lecture, individual studies, and group activities. It will meet for one period each day for the full year.

Marine Science

Grades 11-12

½ Credit

This course is designed to introduce the student into the world of Oceanography and Marine Biology. As resources on land are used up, we are rapidly turning to the ocean to obtain oil and gas from the ocean bottom. We fish in it for food and may eventually mine it for metals. The student will be exposed to topics such as ocean movements, tides, ocean chemistry, wave motions, marine biology, ecology and utilization of the oceans. This course can serve as ½ of the third year unit of credit to qualify for a regular Regents diploma. • *NCAA Approved*

Prerequisite: Successful completion of three years of science.

Ecology

Grades 11-12

½ Credit

This course is designed for students to understand and appreciate their role as members of an ecosystem. The environmental impact of man on our changing earth will be investigated by the study of several topics. The students will integrate all science disciplines in order to gain an understanding of both evolutionary ecology and ecosystem ecology. This course is offered as a one-semester course for seniors. This course can serve as ½ of the third year unit of credit to qualify for a regular Regents diploma. • *NCAA Approved*

Prerequisite: Successful completion of three years of science.

Advanced Placement and College Credit Courses

Advanced Placement and college level courses are offered in many of the science disciplines, including Chemistry, Biology, and Forensics.

Advanced Placement courses all have the requirement that each student must take the AP examination in the respective disciplines. All AP classes are scheduled as a one period per day class and a laboratory period every other day.

The Forensic Science course offers students the opportunity to study college-level science and earn 4 college credits from Syracuse University. The fee for this course is set by Syracuse University directly. This class is scheduled as a one period per day class, and runs for a full year.

College Forensic Science**4 College Credits - Syracuse****Grades 11-12****1 Credit**

Forensic Science is focused upon the application of scientific methods and techniques to crime and law and designed for the college bound student. This course is intended to provide an introduction to understanding the science behind crime detection. Topics included are blood analysis, organic and inorganic evidence analysis, microscopic investigations, hair analysis, DNA, drug chemistry and toxicology, fiber comparisons, paints, glass compositions and fragmentations, fingerprints, soil comparisons, and arson investigations, among others. Laboratory exercises will include techniques commonly employed in forensic investigations. The cost for this course is approximately \$112.00 per credit, to be paid by the student directly to Syracuse University (financial aid is available).

• *NCAA Approved*

Prerequisite: 80% or higher overall average in Honors Chemistry or 85% or higher overall average in Regents Chemistry.

Advanced Placement Biology**Grades 11-12****1 Credit**

This course begins with a discussion of the unique properties of living organisms that set them apart from nonliving. The presentation of molecular and cellular biology follows, and gives a background for the concepts of reproduction and genetics. Units dealing with microbiology, multi-cellular plants, organic chemistry, invertebrate animals, vertebrate animals and human biology follow in a logical sequence. The laboratory, being an integral part of the course, offers experience in sophisticated as well as basic laboratory techniques. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam.

• *NCAA Approved*

Prerequisites: A student registering for this course must have the recommendation of the current science teacher, and an overall average of 85% or higher for all previous Regents Science courses. Students must have received a passing grade on the Living Environment Regents exam.

Advanced Placement Chemistry**Grades 11-12****1 Credit**

Descriptive and theoretical concepts are alternated to provide variety and a well-correlated laboratory program. The course includes the following: new introductory material on atomic theory; and expansion of the treatment of electron affinity and the reorganization of the topic of chemical bonding. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam.

• *NCAA Approved*

Prerequisites: A student registering for this course must have the recommendation of the current science teacher, and an overall average of 85% or higher for all previous Regents Science courses. Students must have received a passing grade on the Chemistry Regents exam.

Social Studies Department

The Social Studies Department at Babylon Jr.-Sr. High School is committed to encouraging and enabling students to function as good citizens, and to develop within them an appreciation of, and respect for cultures unlike their own. To this end, students learn the historical background and contemporary situation of the United States, Europe and non-Western societies, how to understand and interpret a wide range of historical and contemporary documents, and the values involved in being a good citizen. Multicultural perspectives infuse the entire curriculum. Beyond the acquisition of this knowledge and these skills, students are also taught to think and express themselves clearly, both orally and in writing, in preparation for career and college readiness.

Upon completion of the K-12 Social Studies program, the student will be able to:

- Gather, analyze, and decipher data and information from a variety of library, internet and media sources, and synthesize it in an original document.
- Demonstrate conceptual understanding in an essay that includes generalizations, supporting details and appropriate terminology.
- Demonstrate understanding of geographic location, global interdependence, interactions and linkages between regions and nations.
- Describe how past events have had impacts on present social, political, and economic conditions.
- Hypothesize how present social, political, and economic situations may impact future events.
- Propose solutions to U.S. and global problems, and appraise the value of each.
- Demonstrate social responsibility when engaged in a cooperative effort to achieve a common goal.

Students will:

- Show pride in their work as they decipher and analyze information and present their ideas in oral and written form.
- Engage in more verbal exchanges and present their perspectives more frequently. This will be done in class discussions, cooperative groups, student--to--student questions, and paired learning activities.
- Demonstrate high self-esteem and a willingness to participate as they examine and allow for multiple perspectives and consider more than one solution/answer to problems and situations.
- Exhibit patience as they listen to the ideas of others, appropriately engage in group activities, and respond to individuals in their classrooms.

Social Studies Learning Standards

History of the United States and New York

Students will use a variety of intellectual skills to demonstrate their understanding of major ideas, eras, themes, developments, and turning points in the history of the United States and New York.

World History

Students will use a variety of intellectual skills to demonstrate their understanding of major ideas, eras, themes, developments, and turning points in the world history and examine the broad sweep of history from a variety of perspectives.

Geography

Students will use a variety of intellectual skills to demonstrate their understanding of the geography of the interdependent world in which we live—local, national, and global—including the distribution of people, places, and environments over the Earth's surface.

Economics

Students will use a variety of intellectual skills to demonstrate their understanding of how the United States and other societies develop economic systems and associated institutions to allocate scarce resources, how major decision-making units function in the United States and other national economies, and how an economy solves the scarcity problem through market and non-market mechanisms.

Civics, Citizenship, and Government

Students will use a variety of intellectual skills to demonstrate their understanding of the necessity for establishing governments; the governmental system of the United States and other nations; the United States Constitution; the basic civic values of American constitutional democracy; and the roles, rights, and responsibilities of citizenship, including avenues of participation.

Social Studies 7

Grade 7

This course is a chronological study of United States history beginning with the last Ice Age and culminating with the American Civil War. It should be noted that essential aspects of New York State history are infused into the subject matter, in accordance with the New York State Social Studies Standards. While a traditional historical approach is emphasized, the course also incorporates other social studies disciplines such as geography, economics, sociology and political science into the curriculum. There is an emphasis on critical thinking, writing, reading, formal research, map and graph analysis and the interpretation of historical documents. The course concludes with a cumulative final examination that is consistent with NYSED Regents Standards.

Social Studies 8

Grade 8

This course represents the second half of a two-year chronological study of American History. It begins with the Reconstruction period and sequentially progresses to the present day. It should be noted that essential aspects of New York State history are infused into the subject matter, in accordance with the *New York State Social Studies Standards*. While a traditional historical approach is emphasized, the course also incorporates other social studies disciplines such as geography, economics, sociology and political science into the curriculum. There is an emphasis on critical thinking, writing, reading, formal research, map and graph analysis and the interpretation of historical documents. The course concludes with a cumulative final examination that is consistent with NYSED Regents Standards.

Global History I

Grade 9

1 Credit

This course is the first year of a two-year chronologically organized study of the history of the world. The course begins with a study of ancient civilizations and concludes with the Age of Discovery. While a traditional historical approach is emphasized, the course also incorporates other social studies disciplines such as geography, economics, sociology and political science into the curriculum. There is an emphasis on critical thinking, writing, reading, formal research, map and graph analysis and the interpretation of historical documents. The course concludes with a cumulative final examination that is consistent with NYSED Regents Standards. A comprehensive Regents exam will be administered at the conclusion of Global History II. • *NCAA Approved*

Global History II

Grade 10

1 Credit

This course concludes a two-year chronologically organized study of the history of the world. It commences with a brief review of the Age of Reason and then progresses into an analysis of historical material, culminating with a unit on contemporary world issues. Particular emphasis will be placed on the Age of Revolutions, major wars, development of modern political and economic systems, and the crises of the twentieth century. While a traditional historical approach is emphasized, the course also incorporates other social studies disciplines such as geography, economics, sociology and political science into the curriculum. There is an emphasis on critical thinking, writing, reading, formal research, map and graph analysis and the interpretation of historical documents. The course concludes with a cumulative final examination that is consistent with NYSED Regents Standards. A comprehensive Regents exam will be administered at the conclusion of Global History II.

• *NCAA Approved*

Advanced Placement World History

Grades 9-10

2 Credits

This course is designed to increase the student's knowledge and understanding of World History from 8000 B.C. to the present, its development and institutions with the goal of having each student pass the AP examination. The course is divided into two years, with focus being placed on major civilizations in Africa, the Americas, Asia and Europe. The areas of concentration include political, social and economic institutions, as well as cultural and intellectual development. All exam sections reflect college programs in terms of subject matter and approach. Students will be required to take the New York State Global Regents Examination at the conclusion of the second year. Students are expected to achieve a minimum average of 85 to remain in the course. If a student's average drops below an 85, a conference will be held to discuss the student's placement. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam. • *NCAA Approved*
Prerequisites: Have a minimum of 90% weighted average in Social Studies, Social Studies teacher recommendation, an interview with the teacher, mandatory summer assignment.

United States History and Government

Grade 11
1 Credit

This course emphasizes the need for students to acquire knowledge of the structure and functions of our government so that they can become actively engaged citizens. Students will study the U.S. Constitution, including the principles of federalism, separation of powers, and checks and balances. The students will then begin a chronological study of American History from the early Republic to the present day. While a traditional historical approach is emphasized, the course also incorporates other social studies disciplines such as geography, economics, sociology and political science into the curriculum. There is an emphasis on critical thinking, writing, reading, formal research, map and graph analysis and the interpretation of historical documents. The course concludes with a cumulative final examination that is consistent with NYSED Regents Standards. This course will culminate with the New York State United States History and Government Regents Examination.

• *NCAA Approved*

Advanced Placement United States History

6 College Credits - Suffolk CC

Grades 11-12
1 Credit

This course is designed to prepare for intermediate and advanced history courses in college by making demands equivalent to those of introductory college courses. The course itself is an in-depth study of American history in which students will learn to assess historical materials, their relevance to a given interpretive problem, their reliability and their importance, and to weigh the evidence and interpretations presented in historical scholarship. Students in this course will be afforded the opportunity to register as Suffolk Community College Students and receive six credits for successful completion of the course. The fee for this course is set yearly by Suffolk Community College. The cost of the course is \$53 per credit. Students will also be required to take the New York State Regents Examination in United States History and Government. Students are expected to achieve a minimum average of 85 to remain in the course. If a student's average drops below an 85, a conference will be held to discuss the student's placement. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam.

• *NCAA Approved*

Prerequisites: Have a minimum of 90% weighted average in Social Studies, Social Studies teacher recommendation, an interview with the teacher, mandatory summer assignment.

Social Studies Mastery Labs

Grades 9-11

Mastery labs within the Social Studies Department are designed to support and reinforce classroom instruction. Labs provide the students with additional time to decipher and analyze information under the careful supervision of a Social Studies teacher. Labs also act as small forums in which students are able to engage in class discussions and pose questions, not only to the teacher, but to their classmates as well. The criteria for placement in a mastery lab are based on recommendations from the student's counselor, classroom teacher, lab teacher, and the academic performance of the student.

Requirements for Grade 12

Economics 12R

Grade 12
½ Credit

This course will include the basic economic concepts and understandings which all persons will need to function effectively as participants in the economy of the United States and the world. The course will deal with the major economic concepts of scarcity, productivity, opportunity cost, supply and demand, inflation, unemployment, capital, capital formation, competition, the market, global economic interdependence, and the stock market. Periodic independent research projects will be assigned throughout the course which requires student analysis of supplemental materials. Financial literacy will be a recurring theme throughout the coursework.

• *NCAA Approved*

Government 12R

Grade 12
½ Credit

This course will deal with the interaction between students as citizens and government at all levels. The course will encourage students to understand and participate in the democratic process. It will be based on knowledge of the powers, procedures and structures of the local, state, and national government. Emphasis will be placed on social responsibility and key civic values as they relate to the right of participation in our democracy, and an analysis of public policy and its components. Periodic independent research projects will be assigned throughout the course that requires student analysis of supplemental materials.

• *NCAA Approved*

Advanced Placement United States Government**3 College Credits - Suffolk CC****Grade 12****1 Credit**

This course is designed to prepare students for intermediate and advanced government courses in college by making demands equivalent to those of introductory college courses. The course itself is an in-depth study of American government in which students will examine the constitutional underpinnings of United States government, political beliefs and behaviors, political parties and interest groups, institutions and policy processes of national government, and civil rights and civil liberties. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. Students in this course will be afforded the opportunity to register as Suffolk Community College Students and receive three credits for successful completion of the course. The fee for this course is set yearly by Suffolk Community College. The cost of the course is \$53 per credit. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam. Students are expected to achieve a minimum average of 85 to remain in the course. If a student's average drops below an 85, a conference will be held to discuss the student's placement.

• *NCAA Approved*

Prerequisites: Have a minimum of 90% weighted average in Social Studies, Social Studies teacher recommendation, an interview with the teacher, mandatory summer assignment.

College Credit Electives**Advanced Placement Psychology****Grades 10-12****1 Credit**

The field of psychology studies the behavior of organisms with regard to internal conditions, as well as in relationship to others and to their environments. This course introduces the student to the various theories and approaches that psychological research has adopted during the years of its existence and provides the student with some of the results of that research. Upon completion of this course, students should better be able to understand, explain and predict human behavior. Students are expected to achieve a minimum average of 85 to remain in the course. If a student's average drops below an 85, a conference will be held to discuss the student's placement. Advanced Placement courses have the requirement that each student must take the AP examination in the respective disciplines. Students are expected to pay the associated College Board fee of \$92 for the exam.

• *NCAA Approved*

Prerequisites: Have a minimum of 90% weighted average in Social Studies, Social Studies teacher recommendation and interview with the teacher

College Sociology I: Introduction to Sociology **3 College Credits - St John's University**
(Not Offered 2016-2017)

Grade 12**½ Credit**

College Sociology II: Social Problems **3 College Credits - St John's University**
(Not Offered 2016-2017)

Grade 12**½ Credit**

These courses serve as an introduction to the basic principles of Man in Society. They include in-depth analyses of the norms, values and beliefs that exist in American political, economic, and social institutions. Students are provided with comprehensive resources to research, analyze, and evaluate many of the major critical issues that are currently at the forefront of scholarly discussion, in pursuit of a greater understanding of how to function in contemporary society. The college credit for these courses will be offered through St. John's University (Jamaica, NY). The instructor for the courses is approved by the University's College Extension Program. Students will pay \$325 in tuition and fees once in September and again in January for the second course if they are enrolled. An after-school meeting will be held in late May with prospective students to discuss the program.

• *NCAA Approved*

Prerequisites: College Sociology I (SOC 1010) is a prerequisite for College Sociology II (SOC 1070). Students are required to meet the following criteria: an overall average of 85 or higher, SAT scores of 1100 or higher (not including the writing sections), and completion of a Summer Writing Assignment.

Social Studies Electives

Sociology

(Not Offered 2016-2017)

Grades 10-12

½ Credit

Sociology is the scientific study of human society and social interactions. As sociologists, the students' main goal will be to understand social situations and look for repeated patterns. The main focus of sociology is the group, not the individual. Sociologists attempt to understand the forces that operate throughout society ... forces that socialize individuals, shape behavior, and determine social events. The course will discuss the sociological perspective and how it was discovered and employed by sociologists, first in Europe and then in the United States. The course will also discuss the major theoretical perspectives used by sociology. • *NCAA Approved*

Sport and Society

(Not Offered 2016-2017)

Grades 9-12

½ Credit

This course acquaints students with the discipline of sport sociology. Primary focus will be placed upon the study of the institution of sports in America, its development, and its significant impact on society, past, present, and future. Students will examine the history of sports and examine elements of race, gender, politics, money, and ethics. This course considers what sports can tell us about American culture and society. This is not a history of sports class, but rather sports as a sociological institution within the American culture.

Facing History: The Holocaust and Human Behavior

(Not Offered 2016-2017)

Grades 9-12

½ Credit

This course offers students an opportunity to confront the enormity of the destructive process of the Holocaust through the eyes of the Nazi, the Jew and the bystander. Students will also be given the opportunity to explore their own emotional and intellectual responses to the events of this era. Additionally, students will learn the importance of tolerance, cultural hatred, prejudice, discrimination and how they are related to the Holocaust. Finally, the course encourages students to develop an understanding of modern events which parallel those of the Holocaust Era. Students are exposed to the graphic reminders of this tragic event through visits from local survivors, their own research projects, and a possible class trip to the Museum of Jewish Heritage in New York City. Students electing this course should possess a certain level of emotional maturity and a genuine desire to gain knowledge of the historical event. • *NCAA Approved*

Psychology for Young Adults

Grades 10-12

½ Credit

This pre-college psychology course explores individual behaviors, thoughts and action. Students will study the physical, mental, and social influences on human behavior and relationships. Topics will include: Learning and Memory, Reasoning and Conflict Resolution, Strengthening Self Concept, Coping with Stress, Personality Theories, Abnormal Psychology, and Career Possibilities. Knowledge will be applied to solve individual and societal problems. Although this course is valuable for any student, it is especially beneficial for someone planning to pursue a career in psychology, teaching, medicine, or business. • *NCAA Approved*

Criminal Justice

Grades 10-12

½ Credit

The course is an overview of the major components of the criminal justice system as it applies to the state of New York. These components will include law enforcement, the courts, corrections, probation, parole, and juvenile courts. The major functions and goals of each will be discussed in detail. Also included are units on the theories of crime, major crimes committed, legal definitions, arrest and pretrial, process rights of accused, due process, exclusionary rulings, the courts, their decisions, correction, and the death penalty. The course will give the student the opportunity to pursue a better understanding of the criminal justice system as it applies to the average citizen. The course will incorporate an understanding of the law and its application. Research and discussion will be generated by a further understanding of the categorization of crimes (felony, misdemeanor, violation) as well as crimes against person, property, and social morality. Each student will submit a major research paper on an approved topic discussed in class. • *NCAA Approved*

Law and Order

Grades 11-12

½ Credit

This course will be an in-depth analysis of criminal investigations. Case studies will be interpreted from the

perspective of the investigative team. Students will be given an advanced look at the Criminal Justice system with a focus on investigations and trial procedure. The course will contain multiple mock trial projects in which students will use investigative and legal skills to develop their case. The course will use both famous cases such as the OJ Simpson case, the Jon Benet Ramsey case and famous serial killer cases like Ted Bundy as well as analyze cases scene in "Law and Order". Students will be expected to participate actively in all cases analysis and performances as this is a project based learning course.

Prerequisite: Criminal Justice

Leadership in the 21st Century

(Not Offered 2016-2017)

Grades 11-12

½ Credit

In our ever changing world, it is extremely important for our students to be ready for the new challenges that they will face in the 21st century. Through a thorough examination of great historical leaders and the elements of leaderships, students will be able to discover their own leadership style. Students will perform a variety of tasks that will expose them to different leadership traits and skills. Among these skills are: research, community service and public speaking.

News Literacy

(Not Offered 2016-2017)

Grades 9-12

½ Credit

This one-semester course in News Literacy is designed to train middle and high school students to become adept in navigating and discriminating amongst the ever enlarging and often confusing mass of news information that appears in print, on radio and television, and electronically through the Internet. In this course students will learn to discern what is real news as opposed to advertising, entertainment, propaganda, opinion, and simply raw information. The journalistic process will be emphasized and students will be placed in a variety of decision-making situations to clarify not only how news and editorial decisions are made, but also some of the ethical issues that responsible journalists must face. The critical thinking requirements of this class will expose students to an experience that is designed to develop skills in listening, speaking, and writing, thus making it a course that is designed to benefit all students, regardless of interest, ability level, or plans for the future. Students completing this course should consider enrolling in the Journalism elective offered through the English department.

Contemporary Issues in America through Film

Grades 11-12

½ Credit

In this course, students will study modern contemporary in issues in American society through the medium of film. This will be done through viewing, writing, and discussing both historical and contemporary pieces on topics related to the political, social, economic, and history of the United States. Units will be presented thematically where students will examine the issues and events dealing with racial discrimination and tension, civil liberties and justice, America at war, drugs in America, social upheaval and unrest. In addition to examining each film's historical accuracy, the course will also concentrate on the importance of using film as historical evidence.

World Religions and Philosophies

(Not Offered 2016-2017)

Grades 9-12

½ Credit

This course explores the origin, history and significant ideas of the world's major religions. We will compare the fundamental insights, ideals and contributions toward the human moral heritage and wisdom of the Early Religions, Hinduism, Buddhism, Taoism and Confucianism, Judaism, Christianity, Islam, along with a few of the Alternative Religions and Classical Philosophies. Students will gain insight into the similarities of these ideologies as well as their differences. In doing so, students will continue to develop their analytical and critical thinking skills. In studying the wisdom of the world's major religions, it is hoped that students will find sources of meaning and values relevant to their own lives now and a greater understanding of the need for the acceptance of diverse thought. Guest speakers will be a regular feature of the course throughout the semester. A midterm examination will be administered at the end of the first quarter. The course will conclude with a final examination.