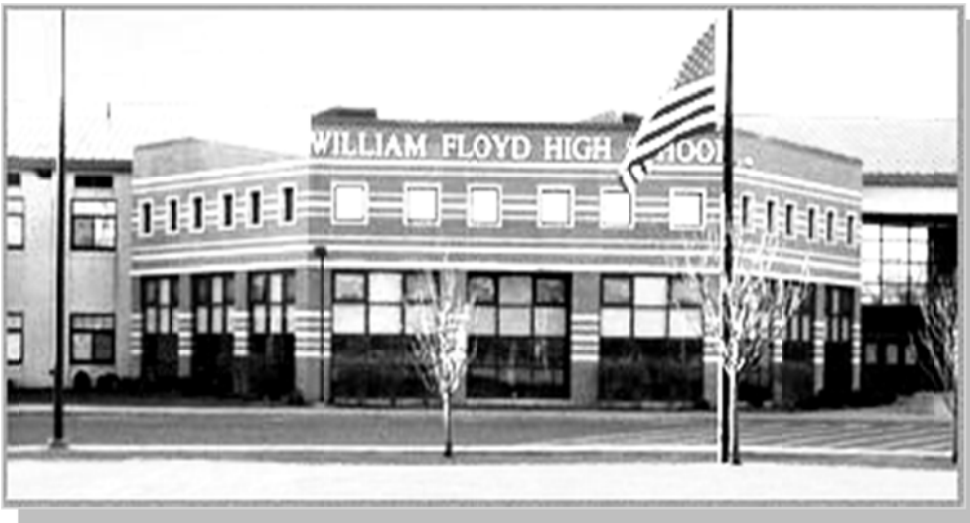


COURSE CATALOG



William Floyd High School

2012 – 2013

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Jeananne Dawson, Vice President
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Athletics	Mark Mensch
Counseling Services	Barbara Butler

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Mathematics	Michele Sherry Batista
Social Studies	Craig Clasen
LOTE	Mariann Coogan
Science	Lisa Lackemann

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John DeBenedetto.....Assistant Principal
Michele Gode.....Assistant Principal
Deborah Gurney.....Assistant Principal
Dan Katchihtes.....Assistant Principal
Albert Peterson.....Assistant Principal
Lisa Pisano.....Assistant Principal



William Floyd Union Free School District

of the MASTICS – MORICHES – SHIRLEY

240 Mastic Beach Road, Mastic Beach, New York 11951-1028

PRINCIPAL'S MESSAGE

Dear Student:

The **William Floyd High School Course Catalog** is being given to you to assist you and your parents or guardians in making important decisions about the courses that you will take during the 2012-2013 school year.

In choosing your courses, you are encouraged to seek assistance from your parents, teachers and school counselor. Try to select courses that will satisfy all of your graduation requirements, as well as explore future possibilities for you, whether attending college or entering the world of work.

I hope you take advantage of the many fine academic opportunities that are afforded to you here at William Floyd High School. I wish you the best in academic success for the year ahead.

Sincerely yours,

Mrs. Barbara Butler
Principal

FOR YOUR INFORMATION:

PLEASE NOTE: Every attempt will be made to meet student program requests. However, students must realize that not all courses contained herein may be offered next year. Budgetary, enrollment, and personnel factors may prevent some courses from being offered. Requested alternate courses will be used when courses are not offered or scheduling conflicts occur.

Contents of this book regarding personnel and course offerings are subject to Budget approval.

Table of Contents

	<u>Page</u>
Counseling Center Plan	5
Important Information	6
Requirements for Graduation	7
Advanced / Honors Courses	8
Testing Information	9
<u>Departments</u>	
Art	11
Business	14
Work Experience	20
English	21
Family and Consumer Science	24
Health	24
Library	25
Languages Other Than English	25
Mathematics	28
Music	32
Naval Science	36
Physical Education	37
Science	40
Social Studies	45
Technology Education	48

Counseling Plan

The goal of the William Floyd School District Counseling Program is to provide support for every student in their academic growth, career/post-high school plans, and social/personal development. Counselors encourage students to take an active and responsible role in the decision-making process of their high school education. As taking responsibility, developing effective communication skills, and acquiring strong organizational and study/work habits are essential life skills, counselors emphasize these skills in working with their students.

Each year, counselors assist students in their academic and elective course selections for their following school year during a scheduling process which takes place in the mid-winter months. Parents and students are urged to review the William Floyd High School Course Catalog thoroughly in preparation for the scheduling process. Course selections are chosen with student input and are based upon teacher recommendations as well as a student's past performance, standardized test scores, a student's college and career goals, and parent requests. Parents will be asked to review and sign student course selection sheets and are encouraged to contact school counselors with questions or concerns.

The William Floyd School District Mission Statement supports the belief that students benefit from course selections which encompass the highest academic standards possible. The Counseling Department encourages students to take full advantage of all the educational opportunities available to them during their high school years. **It is highly recommended that each student pursue an academically demanding schedule, with the goal of attaining admission to a post-high school institution.**

High School Counselors – Grades 9 - 12

Nancy DeVito
Angela Funaro
Sheryl Gochman

Laurie Maro
Stephanie Nardone
Ashley Siebert

Toni Rose Taddeo
Fran Terranova
Nancy Winkler

Middle School Counselors – Grades 6 - 8

PACA
Paul Longo
Laurie O'Donoghue

WFMS
Gene Gersbeck
Christina Salaway

IMPORTANT INFORMATION

Please be advised that every attempt will be made to meet student program requests. However, students must realize that not all courses contained herein may be offered or available. Offering specific courses is dependent upon several factors including sufficient enrollment. Requested alternate courses will be substituted when courses are not offered, or scheduling conflicts occur.

It should be noted that the diploma requirements listed on the next several pages are minimum graduation requirements. Students are encouraged to take the most rigorous academic program possible in order to develop their intellect and skills to the fullest.

School policy requires that full-time students take at least 5½ course credits per school year. It is strongly recommended that **required courses failed during the regular school year be made up in summer school so that students can ensure graduation on time with their classmates.**

A 12th Grade student whose remaining required courses for graduation are included within their grade 12 schedule is considered a *graduating senior*. A 12th Grade student who has fallen behind in credits and will need to continue attending high school for longer than the current school year in order to graduate, will be considered a “12 NP” student. 12NP students do not have senior privileges. **In order for a student to walk the graduation line in June, he or she must successfully meet all graduation requirements prior to graduation day.**

Class rank is determined in the Fall of Senior year, based upon high school credit-bearing courses taken through Grade 11. All courses of study are included for ranking purposes, except those excluded by Board of Education Policy. Selection of the Valedictorian and Salutatorian is in accordance with Board of Education Policy. **Report cards and transcripts indicate actual grades, not weighted grades,** as recommended by college admissions offices. Report card grades will not exceed 100. Grades will be weighted to show relative difficulty of different course-levels solely to determine rank in class. To accurately reflect the difficulty of different course-levels, courses are weighted as follows:

Advanced Placement	1.10	Honors	1.05
Accelerated	1.05	Regents	1.00

GRADUATION REQUIREMENTS

Credit Requirements: Regents Diploma

English	4
Social Studies	4
Math	3
Science	3
LOTE	1
Fine Arts	1
Health	0.5
Physical Education	2
Electives	3.5
TOTAL CREDITS	22

Regents Exam Requirements:

Regents Diploma

- Comprehensive English Regents
- One Math Regents
- Global History and Geography Regents
- U.S. History and Government Regents
- One Science Regents
- LOTE Checkpoint A Exam

Advanced Regents Diploma: Credit Requirements

English	4
Social Studies	4
Math	3
Science	3
LOTE	3
Fine Arts	1
Health	0.5
Physical Education	2
Electives	1.5
TOTAL CREDITS	22

Regents Exam Requirements:

Advanced Regents Diploma

- Comprehensive English Regents
- Global History and Geography Regents
- U.S. History and Government Regents
- Physical Science Regents
- Living Environment Regents
- LOTE Checkpoint B Exam

AND

For Cohort 2007—2008:

- Integrated Algebra *and* Geometry *and* Algebra 2/Trigonometry

For Cohort 2009 and thereafter:

- Integrated Algebra *and* Geometry *and* Algebra 2/Trigonometry



Diploma Requirements Based Upon Phase-In Score of 65+ on Required Regents Exams

Entering Freshmen (cohort year)	Local Diploma	Regents Diploma	Regents Diploma with Advanced Designation
2007	Score 65 or above on 4 required Regents Exams and score 55 or above on 1 Regents Exam	Score 65 or above on 5 required Regents Exams	Score 65 or above on 8 - 9 required Regents Exams (or 7*)
2008 and thereafter	Available for Safety Net Eligible students only	Score 65 or above on 5 Required Regents Exams	Score 65 or above on 9 Required Regents Exams (or 7*)

*May substitute 5 credit sequence of Art, Music, or Career and Technical Education after earning one credit in LOTE.
 Note: The Regents Competency Test Safety Net for students with disabilities will continue to be available for students entering grade 9 through the 2010 - 2011 school year. Students using the Safety Net will receive a local diploma. The low pass option of scoring 55-64 will continue to be available for a local diploma for students eligible for the Safety Net.

EXPECTATIONS FOR STUDENTS ENROLLED IN ACCELERATED, ADVANCED PLACEMENT, COLLEGE AND HONORS COURSES

HONORS AND ADVANCED PLACEMENT

Students are encouraged to take challenging courses and parents and students should consider placement in Honors and Advanced Placement courses with care. A high school record that includes successful completion of Honors or Advanced Placement courses enhances a student's college application. Payment of exam fees for Advanced Placement courses is the family's responsibility. Teacher recommendation is required and maintaining a minimum 85 average may be necessary.

COLLEGE LEVEL COURSES

Through our Dual Enrollment programs, William Floyd High School offers numerous courses which may enable a student to receive college credit from Dowling College, SUNY Farmingdale, Suffolk County Community College and St. John's University. Students may obtain college credit and, thereby, reduce college tuition costs. A tuition fee is charged in order to obtain the college credit, and this is also the family's responsibility. College courses that have been offered at William Floyd High School are listed below:

Dowling College

AP US History
AP English Language/Composition
AP Biology
Children's Literature

Farmingdale College

College Accounting
Business Law
Virtual Enterprise
College Marketing
Computer Applications I & II

Suffolk County Community College

Italian 4/5	Public Service Internship
Spanish 4/5	Piano I
Pre-Calculus	Piano II
Statistic	Piano III
Music Theory I	
Music Theory II	

St. John's University

Physics
Calculus/AP Calculus
Spanish 4/5
Italian 4/5

ADVANCED PLACEMENT COURSES:

Advanced Art
Biology
Calculus (AB)
Chemistry

Economics
English Language and Composition
English Literature and Composition
Environmental Science

World History
U.S. Government & Politics
U.S. History

TESTING INFORMATION

Students at William Floyd High School participate in various standardized testing programs. These tests provide vital information that may not be obtainable from any other source. We test students to help them gain self-understanding, make plans, and make decisions. Data about aptitudes, achievements, and interests are used to determine the progress of students, to identify areas of strength and weakness, to plan remedial programs, to modify course and teaching methods, and to plan for college admission.

The following standardized tests are required or recommended exams and are available to all students at the High School.

REGENTS EXAMS

The New York State Education Department requires that all members of the Class of 2012 earn a grade of 65 or above on all five required Regents Exams for a Regents Diploma. The required Regents Exams are: Integrated Algebra, Global History and Geography, one Science Regents, US History, and English. To earn an Advanced Regents Diploma, students must also pass the Checkpoint B Exams in Language Other Than English (LOTE), Geometry, Algebra 2/Trigonometry, and an additional Science Regents.

PRELIMINARY SAT/NATIONAL MERIT SCHOLARSHIP QUALIFYING TEST*

The PSAT/NMSQT is a “practice SAT” test given in October in preparation for the SAT I. This test is also the first step in entering scholarship programs conducted by the National Merit Scholarship Corporation (NMSC). The PSAT is divided into four, thirty-minute verbal and math sections. Students should take the PSAT in the fall of their sophomore year. Students may use calculators on all math questions. Scores are reported on a 20-80 point scale in Math, Verbal and Writing sections.

SAT – REASONING TEST*

The SAT is one of two national college entrance exams that are used by most colleges as a means of assessing applicants’ college readiness. The SAT is provided by College Board (www.collegeboard.com). The SAT should be taken in the spring of junior year and again in the fall of senior year.

The SAT Reasoning Test measures skills in Critical Reading, Mathematics and Writing. Students are permitted to use a calculator, although no questions require its use. Critical reading and reasoning make up roughly half the verbal test. It includes double passages in which two tests addressing the same subject are compared and contrasted. Vocabulary is tested within the critical reading and the sentence completion sections. Scores are reported on a 200-800 scale for Verbal, Math and Writing categories.

*William Floyd High School CEEB Code: 333-068

ACT*

The ACT is another national college admissions exam which may be used in place of the SAT. It is a curriculum-based exam which tests applicants' general educational development and ability to complete college level work. Its website is www.actstudent.org. Specifically, it tests skill levels in English, Math, Reading, and Science, and there is an optional Writing test. ACT scores are reported as four separate scores: English, Reading, Math, and Science; and one composite score is included, which ranges from 1-36.

SAT II SUBJECT TESTS*

The SAT II consists of 19 individual subject tests designed to measure knowledge and skills in particular subject areas as well as the ability to apply that knowledge. They are each 1 hour, multiple choice exams. Many competitive colleges require applicants to take SAT II tests, so applicants should carefully review the admissions procedures for each college to which they are applying. Among the subject areas available for students for this exam are: Literature, U.S. History, Math (Level 1 and Level 2), Biology, Chemistry, Physics, and Languages (Spanish, Italian and French). Scores are reported on a scale of 200 – 800.

ADVANCED PLACEMENT TESTS (AP)*

AP tests are designed for students who have completed college-level AP courses in high school. Advanced Placement examinations are given in specific subject areas to determine whether a student may gain advanced standing in college. AP Exams are administered in May of each year. Scores range from 1-5. **Generally** a score of 3, 4 or 5 may qualify for college credit.

ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB)

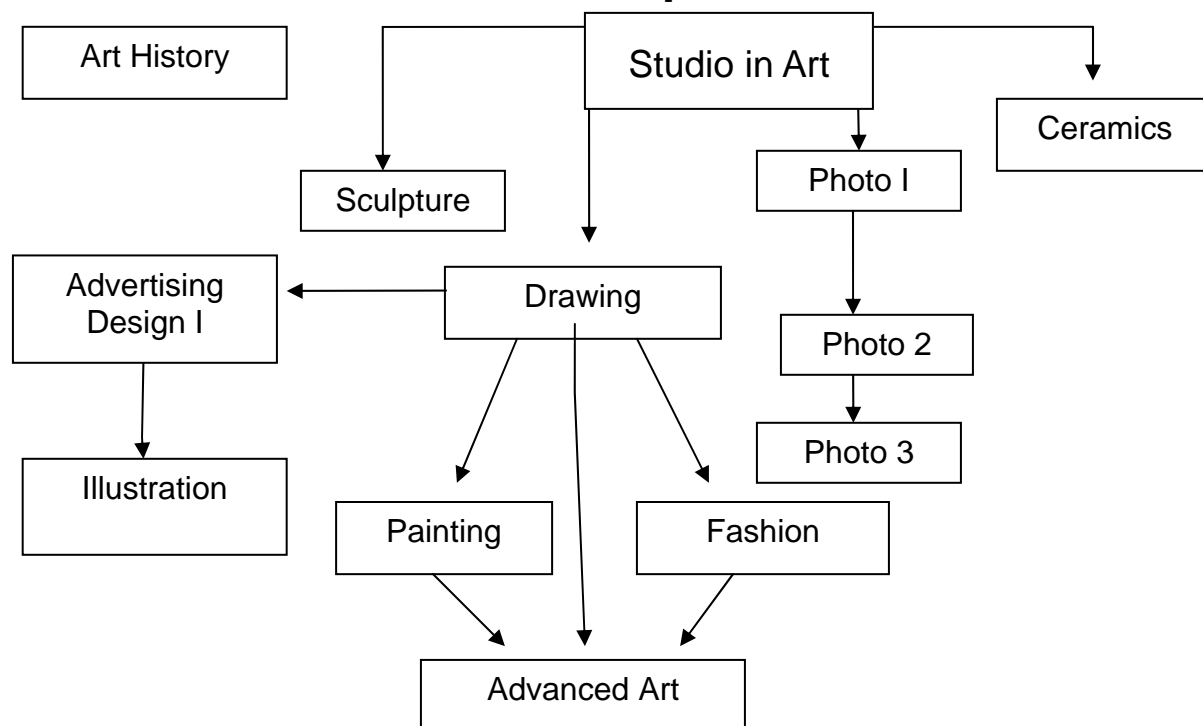
The ASVAB is an aptitude battery measuring developed abilities. It predicts what a person might accomplish with training or further education. ASVAB is designed to measure potential for occupations that require formal courses of instructional or on-the-job training. In addition, it provides measures of general learning ability that are useful for predicting performance in academic areas. ASVAB is an outstanding Vocational Inventory for all students, even for students not necessarily interested in a career in the armed services.

TEST OF ENGLISH AS A WORLD LANGUAGE (TOEFL)

This test is designed for students for whom English is not a native language, and whose scores on the SAT, therefore, would be affected by the language difference.

*William Floyd High School CEEB Code: 333-068

Art Sequence



5 credit sequence in Fine Arts: Studio in Art, Music in Our Lives or Theory I, and 3 credits in Theater, Dance, Musical Skill or Visual Arts.

ART

STUDIO IN ART - 0901

**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

Prerequisite: None. Studio in Art is an exploratory course designed to stimulate the student's interest in visual art and to find a particular medium or area of interest in which they can elect advanced art courses. Since this course is a prerequisite for all advanced art courses, it is strongly recommended that students enroll in this course during grade 9. Art majors will take Studio in Art to begin an Art sequence. **This course may be used to meet the one unit New York State Arts requirement for graduation.**

STUDIO IN DRAWING - 0902

**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: Studio in Art. Studio in Drawing is a full year elective course for grades 10-12. It is strongly recommended that students enroll in this course in grade 10. Students learn techniques and methods which will improve and refine their drawing skills. Drawing *from life* is stressed, as well as figure drawing. Emphasis is placed on accuracy of detail and realism. Proficiency and self expression are encouraged through the following media: pencil, graphite, charcoal, pen and ink and Conte' crayon. It is strongly recommended that students who plan on majoring in Art take this course prior to taking other art electives.

STUDIO IN PAINTING - 0903

**FULL YEAR - 1 CREDIT
GRADES 11 - 12**

Prerequisite: Studio in Art and Studio in Drawing. Studio in Painting is a full-year advanced course, with a concentration on the process and methods of painting. Students experience advanced use of color, light, composition with the main concentration on oil painting. Students are encouraged to develop their own approach and style to painting; individuality is encouraged.

ART HISTORY - 0904**FULL YEAR - 1 CREDIT
GRADES 11 - 12**

Prerequisite: None. Art History is open to grades 11 and 12 for art majors and non-art majors. However, it is strongly recommended that students who are planning a career in Art enroll in this course. It is the study of the influence that various cultures have had on the artist and his product from ancient to modern times. Architectural, sculptural, pictorial arts and the artist who produced them are surveyed. In addition to the study of painting and sculpture, prominent museums which house great master works are studied as well as historical monuments and sights of past cultures. A trip is planned to visit New York City art museums.

STUDIO IN ADVERTISING DESIGN - 0905**HALF YEAR - ½ CREDIT
GRADES 11 - 12**

Prerequisite: Studio in Art and Studio in Drawing. This course develops the skills and principles necessary to function in the world of commercial art. Commercial art is unique in that it is “made to order.” It is directed at the consumer and involves methods of advertising and designing products for consumer use. Activities include lettering, poster design, layout, logo design and areas related to commercial art careers.

PHOTOGRAPHY 1 - 0907**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: NYS Arts requirement in Art or Music. Photography 1 is an introductory course open to all students who have completed the credit requirement in the Arts for graduation. Students will learn the fundamentals and technical skills of traditional black and white film photography. Areas of study include the history of photography, the science of capturing an image, and the workings of a film camera, focus and exposure. Students will create photographs, develop film, and enlarge negatives into black and white prints in a working darkroom. Photography will be approached as a fine art with emphasis on composition, expression and critique. Supplies are provided. Students must have their own 35mm film camera.

PHOTOGRAPHY 2 - 0908**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: Photography 1. Photography 2 expands upon the methods and experiences of Photography 1, giving students both opportunity to improve on technical skills and their expressive abilities – translating their ideas from other areas of their lives into the medium of photography. Students will learn about the photography of historic photographers and begin to talk critically about their work. The basics of digital photography will also be introduced in this course. Other areas of study include portraiture, natural and artificial lighting, landscapes, and the career opportunities in the field of Photography. Supplies are provided. Students must have their own 35mm film camera (a 35mm camera which permits manual adjustment of shutter speeds and apertures would be ideal).

PHOTOGRAPHY 3 - 0909**HALF YEAR - ½ CREDIT
GRADES 11 - 12**

Prerequisite: Photography 2 with a grade of 75 or higher. Photography 3 is ideal for the student who is considering a career in Photography or Visual/Graphic Arts. Emphasis is given to developing a critical sense of the visual language and students will further develop their own creative voice as they are encouraged to grow creatively. Areas of study include advanced dark room techniques while experimenting with texture, form, abstraction and light. The use of Digital Photography will be expanded in this course along with increased digital photo editing instruction. The work of well know Photographers will be explored. Supplies are provided. Students who wish to go beyond the course requirements may need to purchase additional materials. Students must have their own SLR camera; 35mm film camera (a camera which permits manual adjustment of shutter speeds and apertures being ideal) and/or a Digital Camera (phone cameras cannot be accepted) for the course.

**PORTFOLIO PREPARATION - 0910
(FALL SEMESTER ONLY)**

**HALF YEAR - ½ CREDIT
GRADE 12 or Permission of
Coordinator**

Prerequisite: Studio in Drawing. This course is designed specifically for the students interested in going to college for art. They should enter this class with a wide variety of art experiences. Emphasis will be placed on a rigorous work load with an outstanding amount of outside and in class drawing. Students will be encouraged to develop discipline and time management skills. Selected works will be properly prepared for portfolio preparation for application to a variety of art schools. In addition, exposure to various art colleges and academics will be explored. Teachers will work closely with individual student needs. Eleventh grade students interested in enrolling in this course must have the permission of the instructor and the Coordinator of Fine Arts.

STUDIO IN CERAMICS - 0911

**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: Studio in Art. Studio in Ceramics is a one-semester course open to grades 10-12. The scope of this course is that of total involvement in ceramics. Students are taught various methods of hand building pottery as well as skills in wheel throwing. Contemporary forms in stoneware are designed and produced in class. Most decorative coloring (glazes) for the student projects are manufactured in class. The student, through experience, develops an appreciation for the potter as an artist.

STUDIO IN SCULPTURE - 0912

**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: Studio in Art. This course will explore the elements and principles involved with the creation of art that is three dimensional. Sketching will be required, and works of art will be discussed. The course will focus on the design and creation of form in a variety of media. Students will work in plaster, stone or clay.

**AP ADVANCED ART - 0913
(SPRING SEMESTER ONLY)**

**HALF YEAR - ½ CREDIT
GRADE 12 or Permission of
Coordinator**

Prerequisite: ADVANCED ART STUDENTS ONLY, PLUS TEACHER RECOMMENDATION. This course focuses on portfolio preparation and evaluation. It is a college-level course with each portfolio containing three sections: Quality; Concentration (an in-depth, individual project); and Breadth (Demonstration of a wide range of experience). Eleventh grade students interested in this course must have the permission of the instructor and the Coordinator of Fine Arts.

ILLUSTRATION - 0914

**HALF YEAR - ½ CREDIT
GRADES 11 - 12**

Prerequisite: Studio in Art and Drawing or permission of the instructor. Students will explore illustration as a means of communication. Drawing and design skills will be extended through the use of materials and techniques using illustrative components. Student focus will be on historical relationships between composition, design, color and conceptualization.

FASHION DESIGN - 0915

**HALF YEAR - ½ CREDIT
GRADES 11 - 12**

Prerequisite: Studio in Art and Studio in Drawing. Through a series of theoretical and practical lessons, students will explore fashion design. Emphasizing innovation, creativity and technical skill; each student will study the historical development of fashion and use various materials to design and create fashion.

SCHOOL OF BUSINESS

The School of Business will enable you to prepare for college, help gain entry-level employment and fulfill business-related personal responsibilities. Courses are designed to provide a variety of options for students to meet elective requirements, while developing job and college-related skills.

You may elect a 5-unit sequence in Business Education as an alternative to the 3 credit World Language requirement for an Advanced Regents Diploma. The 5-unit sequence is designed to provide students with skills necessary for entry-level employment.

Math Applications for Business and Personal Finance, Accounting, and College Accounting each can be used to satisfy the third required unit of Math.

Refer to the following course descriptions and see your school counselor to select courses which will best suit your individual needs and career goals.

BUSINESS EDUCATION

5-UNIT SEQUENCE

Required Courses:

Career Portfolio/ Money Management

***PLUS** four units from the following:

- Accounting (1)
- College Accounting (1)
- Business English (1)
- Business Law (1)
- The Business of Music (1/2)
- Business Ownership & Management (1)
- Computer Applications (1/2)
- Video Game Design (1/2)
- Entertainment Marketing (1)
- Fashion Marketing (1)
- Math Applications for Business & Personal Finance (1)
- Sports Marketing (1)
- Personal Keyboarding (1/2)
- Web Design (1/2)
- Virtual Enterprise (1)

Work Based Learning:

- Cooperative Work Experience (1/2 or 1)
- General Education Work Experience (1/2 or 1)
- Career Exploration Internship Program (1/2 or 1)

*Refer to course descriptions or see your school counselor for recommended grade level for specific courses and suggested course combinations.

CTE Diploma Designation: Finance

The William Floyd High School Business Academy gives students the opportunity to obtain the CTE Finance Endorsement. The purpose of this endorsement is to prepare students for entry level employment, developing the necessary workplace skills to be a successful employee. It also gives students a strong foundation to continue their post-secondary education in finance.

In order to receive this endorsement, students must meet all of the following criteria:

Required:

Money Management	.5 credit
Career Portfolio	.5 credit
College Accounting	1 credit
Business English	1 credit
Choice of Work-Based Learning Experience (Must be in area of finance)	.5 credit
1.5 additional credits within the Business Academy	

Required Assessments:

Industry Based Accounting Exam (i.e. NOCTI)
Completion of New York State Career Plan

Business Academy Concentrations

Students can receive certificates for the following areas of concentration. These certificates represent that the student has explored a career interest within the Business Department. You must complete the course marked with an asterisk (*) and career-related activities. See your Business teacher for an application.

Finance:

- * Accounting
 - * College Accounting
 - * Business Statistics
- Plus: 1 additional business credit
1 job shadowing experience in this area
Attend Career Café

Marketing:

- * Sports, Entertainment or Fashion Marketing
 - * College Marketing
- Plus: 1 additional business credit
1 job shadowing experience in this area
Attend Career Café

Entrepreneurship/Management:

- * Business Ownership and Management
 - * Business Law
- Plus: 1 additional business credit
1 job shadowing experience in this area
Attend Career Café

Information Systems:

- * Microsoft Office
 - * Computer Applications
 - * Advanced Computer Applications
- Plus: 1 additional business credit
1 job shadowing experience in this area

MONEY MANAGEMENT – 0601**(May also run alternate days for a full year) - 0602**

Prerequisite: None. This course is a **must have** for all students! The information you learn in this class can help save you thousands of dollars over your lifetime and help you make financial choices for your future. In this course we explore: planning personal finances, budgeting decisions, banking and credit, consumer purchasing and protection, taxes, and insurance. This class is not to be missed. **PLEASE NOTE: Students seeking a 5-unit sequence in Business MUST take Career Portfolio (1/2) and Money Management (1/2).**

HALF YEAR - ½ CREDIT**GRADES 9 - 12****CAREER PORTFOLIO – 0614****(May also run alternate days for a full year) - 0615**

Prerequisite: None. Take charge of your future! Through extensive on-line self-assessment testing, you will have the opportunity to explore careers that match your interests, personality and work style. You will research careers via the internet, and find the requirements of the job, working conditions, salary, etc. as well as prepare to pursue a particular career. You will create resumes (electronic resumes), compose cover letters, complete job applications, and prepare for the job interview. Guest speakers in various occupational fields will provide you with **real-life** information to help you make your career decision. Upon completion of this course, students will have a personal career portfolio. This is **definitely** a class you will want to complete prior to graduation! **Students successfully completing this course will have prepared a complete New York State Career Plan for their grade level. PLEASE NOTE: Students seeking a 5-unit sequence in Business MUST take Career Portfolio (1/2) and Money Management (1/2).**

HALF YEAR - ½ CREDIT**GRADES 9 - 12****ACCOUNTING - 0603**

Prerequisite: None. Accounting is not just for those who want to be accountants! Have you ever thought about starting your own business? If so, you need to know how to manage and record your finances. Have you ever thought about investing in a corporation (stocks and bonds)? If so, you need to know how a business reports its financial information as well as how to analyze this information! (College Accounting is also available for college credit for juniors and seniors). In addition, computer software used in the accounting field will be introduced (Peachtree, Quickbooks, Excel). **This is one of the Top 10 College Majors and one of the Top 10 Careers in Demand. This course may be used as a third Math credit.**

FULL YEAR - 1 CREDIT**GRADES 10 - 12****COLLEGE ACCOUNTING - 0613****EARN COLLEGE CREDIT!** *Most colleges require Accounting as an elective for any Business major.*

Prerequisite: Grade Point Average of 80 or more. College Accounting is part of the University in the High School program at Farmingdale State University. Students who choose to participate in this program may earn 3 college credits which are transferable to any SUNY school, and many colleges and universities in the United States. This course provides college level introduction to accounting, fulfilling the needs of those planning to major in any business field at the college level. In addition, computer software use in the accounting field will be introduced (Peachtree, Quickbooks, Excel). **This course may be used as a third Math credit.**

FULL YEAR - 1 CREDIT**GRADES 11 - 12****BUSINESS ENGLISH—0607**

Prerequisite: None. Course emphasis will be on developing the communication skills essential in the world of business. Computers will be used as a tool to master basic writing skills. An emphasis will be placed on critical listening, reading, editing, proof reading, research techniques and an oral presentation. Required readings will include trade magazines, business and technical journals and at least one full-length work of literature. **This course may be used to satisfy the English 12 requirement.**

FULL YEAR - 1 CREDIT**GRADE 12**

BUSINESS LAW - 0608**FULL YEAR - 1 CREDIT
GRADES 11 - 12****EARN COLLEGE CREDIT!**

Prerequisite: None. As part of the University in the College Program at Farmingdale State University, you may earn 3 college credits, which are transferable to all SUNY schools and most colleges and universities in the United States. This course emphasizes the relationship of business law to an individual's personal and occupational life. Illustrative case problems are used to develop legal reasoning and problem solving in such areas as contractual disputes and deceptive sales practices.

THE BUSINESS of MUSIC – 0632**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Interested in the *Business* side of the music industry? When you think 'Music,' don't just think pop star--there are other careers to consider within the music industry. Want to know about these careers available in the industry? How does the music industry target various market segments and music genres? This course will explore the past, present and future of the music industry as well as issues such as illegal downloading, censorship, copyrights, touring and publishing. Case studies, analysis of current events and research based projects will be integrated throughout the course.

BUSINESS OWNERSHIP & MANAGEMENT - 0610**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: None. Start your own business! Create a small business of your choice all the way from your business card to Grand Opening Day. This course is designed to provide students with a background in starting and managing a small business. Listen to local business owners share their success stories in class. Students will be taught the latest skills in etiquette and how to apply them in various business situations.

COLLEGE PREP - 0617**(Only available 1st semester) - 0627****HALF YEAR - ½ CREDIT
GRADES 11 - 12**

Prerequisite: Highly recommended for Juniors. Gain valuable skills to give you the edge on your college experience. This course is designed for the college-bound student interested in acquiring pre-college survival skills. You will evaluate and improve your study and time management habits as well as your listening skills. A thorough college research unit will be given via the internet for colleges based on your own criteria of importance (location, money, major, etc.). In addition, the Cornell note-taking method will be introduced to enhance your success in any lecture class.

SPEEDWRITING, an alphabetical shorthand system, will be taught to enhance your note-taking power and keep you actively involved in long lecture classes. **A must for anyone college-bound.**

COMPUTER APPLICATIONS - 0611**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

EARN COLLEGE CREDIT! Students who choose to participate in this program may earn 3 college credits (Juniors/Seniors ONLY), which are transferable to any SUNY school and most colleges and universities in the United States.

Prerequisite: None. This is an ideal course for the college-bound student! College requires certain computer skills. This course will introduce you to how word processing, database, spreadsheet and presentation skills are used as tools for success at the college level and, subsequently, at work. Students will learn how to add some "pizzazz" to their documents and presentations. This is a great course to compliment college prep and prepares you for Advanced Computer Applications.

VIDEO GAME DESIGN – 0616**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Gain experience in many aspects of the growing video game industry. You will have the opportunity to research potential career opportunities in the gaming field as well as learn how to design, develop and market video games.

ENTERTAINMENT MARKETING - 0620**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: None. From I-tunes to Disney World, marketing plays a key role in entertainment. If you want to learn about the entertainment industry and how it influences your decisions, this is the course for you. Create your own music group or theme park while applying key marketing principles through projects and research. Students will learn how to use marketing strategies in various areas such as television, music, Broadway, tourism and the restaurant industry. Come see how marketers get you interested in their products.

FASHION MARKETING - 0629**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: None. If you're interested in clothes and the fashion trends, then this is the course for you! Students will learn the principles of marketing and apply them to the fashion/apparel and accessories industry by creating and designing their own retail stores, window displays and so much more. Explore the psychology of promoting and selling in the fashion industry. Learn how major organizations develop marketing strategies. Students will analyze the strategies of Ralph Lauren, Calvin Klein and DKNY, and become well-versed in designer accessory terminology and explore the various styles of retail displays.

**MATH APPLICATIONS FOR BUSINESS
AND PERSONAL FINANCE – 0609****FULL YEAR - 1 CREDIT
GRADES 11 - 12**

Prerequisite: None. This course will provide a foundational understanding for making informed personal financial decisions. Learn how to prepare a budget, determine auto loan interest, complete income tax forms, and evaluate stock and mutual funds. You will also learn how businesses use math to calculate store discounts, sales commissions, interest, taxes and depreciation. Computer simulations such as Virtual Finance and Microsoft Excel bring financial planning and business calculations to life. Emphasis is placed upon learning mathematical concepts through practical application to common business problems and personal finance. **This course may be used towards a third unit for Math.**

SPORTS MARKETING - 0622**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: None. Want to create your own sports team and compete against other teams in an on-line fantasy sports league? Students will learn the principles of marketing and apply them to sports projects. See how sports teams get your attention and how they target customers and develop marketing strategies. Students will create and market their own sports-related products. Students will have the opportunity to become the next George Steinbrenner or Jerry Jones by creating their own franchise—from designing the team's uniform to building a stadium.

**PERSONAL KEYBOARDING - 0621
(May also run alternate days for a full year) - 0626****HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: None. Don't pay someone to type your term papers! Learn the valuable **SKILL** of **TOUCH TYPING**, giving you the edge in today's technological world. This course is especially beneficial to students who plan to go to college. In addition, students will format letters, tables and reports, and perform desktop publishing functions using Microsoft Word. Microsoft Excel will be introduced to prepare spreadsheets and graphs, and perform mail merges to easily mail out those important invitations. **Students who are taking or have taken this class cannot enroll in Microsoft Office. Suggested course: Computer Applications**

WEB DESIGN - 0624

**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: None. How would you like to communicate with the world? Whether you are a business with services to sell or an individual with a story to share, you can publish any kind of information on the World Wide Web. This course will teach you how to create simple web pages from scratch using Dreamweaver CS3. You will also learn how to design creative web pages using Photoshop CS3.

VIRTUAL ENTERPRISE (FORMALLY E-COMMERCE)

**FULL YEAR - 1 CREDIT
GRADES 11 - 12**

Juniors/Seniors EARN COLLEGE CREDIT! As part of the University in the High School Program at Farmingdale State University, you may earn 3 college credits which are transferable to all SUNY schools and most colleges and universities in the United States.

PRE-REQUISITE: You must have at least taken one of the following courses: Accounting, College Accounting, Business Ownership, Web Design, or any Marketing class

INTRODUCING “FOREVER FIT BY FLOYD”!!

Are you ready to manage an on-line business, “Forever Fit by Floyd”, and compete with **over 3000 “virtual businesses” around the world?** Virtual Enterprises (VE) is a **simulated business** that is created and **run by students**. This program allows students to experience all facets of being an employee in an actual business environment. Students are involved in every aspect of running a business, including human resources, accounting, marketing and sales. In a Virtual Enterprise you will conduct business with other virtual businesses, **attend a trade show in New York City** and enter competitions!

WORK- BASED LEARNING PROGRAM

EARN COURSE CREDIT FOR HAVING A JOB ON-THE-BOOKS OR FOR VOLUNTEERING IN SCHOOL OR THE COMMUNITY!

Interested students should see their counselors for details and an application. All applications will be screened by the work-based learning coordinator to determine eligibility for the program. It is imperative that you turn in your completed application to the Work-Based Learning Coordinator or you will be dropped from the program and lose your chance for this credit. This is an INDEPENDENT study program and does not take up a class period! A personal coordinator will provide you with career-related instruction and counseling to help create occupational goals, encourage progress, answer questions, and solve job-related problems. Become a 21st century employee!

CAREER EXPLORATION INTERNSHIP PROGRAM (CEIP)

**CEIP 0634 - 1 CREDIT
CEIP 0635 - ½CREDIT**

108 hours of volunteer work in the building or the community qualifies for 1 credit.
54 hours of volunteer work in the building or the community qualifies for ½ credit.

Apply now and receive credit for volunteering!

GENERAL EDUCATION WORK EXPERIENCE (GEWE)

**GEWE 0631 - 1 CREDIT
(for any student who is not working
toward a 5-unit sequence)**

GEWE 0655 – ½ CREDIT

**300 hours of on-the-books, paid work qualifies for 1 credit.
150 hours of on-the-books, paid work qualifies for 1/2 credit.**

Apply now and receive credit for working!

NOTE: A student can receive only 1 credit for CEIP AND 1 credit for GEWE or COOP throughout the whole high school experience for a total of two credits in the Work-Based Learning Program.

A student may not be simultaneously enrolled in CEIP and GEWE or COOP for a full credit for each in the same school year. (They may, however, receive ½ credit in a given school year for CEIP one semester and ½ credit for GEWE the next semester.)

COOPERATIVE WORK EXPERIENCE (COOP)COOP 0625—1 CREDIT (for any student who is working toward a 5-unit CTE Sequence)

**300 hours of on-the-books, paid work qualifies the student for 1 credit.
150 hours of on-the-books, paid work qualifies the student for ½ credit.**

ENGLISH SEQUENCES

Level	9th Grade	10th Grade	11th Grade	12th Grade
Regents	English 9	English 10	English 11	One of the following: Survey of British Literature Children's Literature Creative Writing
Honors	Honors English 9	Honors English 10	AP English Language & Composition	AP English Literature & Composition Or English 12 Honors

All English students are encouraged to participate in the District/Community Library Summer Reading Program

ENGLISH

All students will be expected to participate in the district/community summer reading project.

ENGLISH HONORS PROGRAM

Students are required to maintain a yearly average of at least a 90, and receive a teacher recommendation as well as meet the rigorous entry criteria set by the district in order to enter the Honors program. Students must complete a summer project at the discretion of the teacher. The English Honors classes are scheduled for those students who have demonstrated mastery of writing skills and English expression. Intensive study of literacy skills are a major part of the program. This course will prepare students for the New York State Comprehensive Regents Exam.

ENGLISH 9 HONORS - 0102

**FULL YEAR - 1 CREDIT
GRADE 9**

Prerequisite: Meet the rigorous criteria set by the district. This course will form the basis needed to develop the skills necessary for success in the Advanced Placement Program. English 9 Honors provides rigorous instruction in composition, literature, and vocabulary building through a standards rich curriculum. Major units may include, but are not limited to, the study of mythology, *Romeo & Juliet*, and modern short stories. Students will build a background in literature while perfecting the skills of reading, writing, listening and speaking. This course will prepare students for the New York State Comprehensive Regents Exam.

ENGLISH 9 – 0101

**FULL YEAR - 1 CREDIT
GRADE 9**

Prerequisite: None. This course provides basic instruction in composition, literature, and vocabulary building through a standard rich curriculum. Major units of study in literature include mythology, *Romeo & Juliet*, and modern short stories. Students are expected to build a background in literature while perfecting the skills of reading, writing, listening and speaking.

ENGLISH 10 HONORS – 0104**FULL YEAR - 1 CREDIT
GRADE 10**

Prerequisite: Pass English 9 Honors and receive a teacher recommendation. This full-year course is intended to prepare students for Advanced Placement English. A sampling of literature from around the globe will be introduced. The study of this literature is arranged around thematic units that highlight the universal issues that have affected people through the ages and across the continents. Reading, writing, speaking and listening activities will be emphasized with all literature studied. This course is a rigorous course that will expand the literature studied from the Regents English curriculum.

ENGLISH 10 – 0103**FULL YEAR - 1 CREDIT
GRADE 10**

Prerequisite: English 9. This course is designed to further expand the standards-based skills developed in grade 9. Composition and literacy analysis skills will be emphasized. In literature, *Macbeth*, world literature and short stories are studied. Students will also read and analyze original documents of an interdisciplinary nature. The course is a rigorous preparation for the Regents Exam.

**ADVANCED PLACEMENT ENGLISH
LANGUAGE & COMPOSITION— 0117****FULL YEAR - 1 CREDIT
GRADE 11**

Prerequisite: *Students will be required to complete a summer project which will be incorporated into the first quarter's grade, pass English 10 Honors with at least a 90, have a teacher recommendation and a passing grade on entrance exam. *This is a rigorous forty-week course designed to offer juniors the opportunity for advanced study in language and the art of writing. It is a college-level course for those who might benefit from the Advanced Placement Examination in English offered by the College Entrance Examination Board. The focus of the course will be on the style, structure, and content of major selections of literature, as well as the work of language theorists. Students will explore all aspects of writing, through the various possibilities of sentence construction, to the structuring of the paragraph and essay. Throughout the course, students will be encouraged to develop an individual style that is adaptable to different occasions, purposes, and audiences. Because the underlying philosophy is that writers must be readers as well, reading selections will be varied and drawn from all categories. Students are expected to take the Advanced Placement examination offered in May.

ENGLISH 11 – 0105**FULL YEAR - 1 CREDIT
GRADE 11**

Prerequisite: English 10. This course offers students the opportunity to prepare for the Regents in English Language Arts, administered in January. A student must pass the Comprehensive English Regents Examination to satisfy the state requirements for a high school diploma. Emphasis in composition includes the literacy essay, persuasive essay, and the critical and evaluative essays. Emphasis in literature is on poetry, *Othello* and American novels and plays.

**ADVANCED PLACEMENT ENGLISH
LITERATURE & COMPOSITION - 0118****FULL YEAR - 1 CREDIT
GRADE 12**

Prerequisite: Pass Advanced Placement English Language & Composition or English 11 with at least a 90; have a recommendation from the teacher; and have passing grade on the entrance exam. *Students will be required to complete a summer project which will be incorporated into the first quarter's grade. *This is a rigorous forty-week course designed for seniors. It is a college-level course for those who might benefit from the Advanced Placement Examination in English offered by the College Entrance Examination Board. Students will read the works of recognized authors. They will become familiar with the terminology and techniques of literary criticism, and they will learn to demonstrate the techniques of composition and analyze the elements of literature. Students are expected to take the Advanced Placement examination offered in May.

ENGLISH 12 HONORS - 0109**FULL YEAR - 1 CREDIT
GRADE 12 (90 GPA Final)**

Prerequisite: Students must be recommended by a teacher and pass the assigned entrance exam. This course is designed to prepare the graduating senior for college-level work. Both the reading and writing assignments have been constructed to parallel a college freshman English class. Serious students will learn what will be expected of them next year in their freshman college classes.

BUSINESS ENGLISH (English 12 Elective) - 0607**FULL YEAR - 1 CREDIT
GRADE 12**

Prerequisite: None. This course is offered through the Business Department. This course satisfies the requirement for English 12 or may be taken as a 5th unit of study in English. Course emphasis will be on developing the communication skills essential in the world of business. Computers will be used as a tool to master basic writing skills. An emphasis will be placed on critical listening, reading, editing proofreading, research techniques and an oral presentation. Required readings will include trade magazines, business and technical journals and at least one full-length work of literature. The software program used will be Microsoft Word.

**CHILDREN'S LITERATURE THROUGH
THE AGES (English 12 Elective) – 0113****FULL YEAR - 1 CREDIT
GRADE 12**

Prerequisite: English 11. This course is an elective and may be taken to satisfy the requirements for English 12 or as a 5th unit in English. This course explores the development of literature written especially for young children and adolescents as it has progressed from the oral traditions of the early middle ages, through the morality tales/plays of the Renaissance, to the fantasy and humor of the eighteenth and nineteenth centuries, into the comics and cartoons of the twentieth century. Major works of literature will include Lewis Carroll's Alice in Wonderland, Aesop's Fables, Kipling's Jungle Book, stories by the brothers Grimm and Hans Christian Andersen and the poetry of Rosetti and Silverstein. A survey of British Literature will also be included. Two major projects will be required.

**SURVEY OF BRITISH LITERATURE - 0108
(English 12 Elective)****FULL YEAR - 1 CREDIT
GRADE 12**

Prerequisite: English 11. This course will introduce students to a variety of literary genres as well as the skills needed for successful public speaking. Area of study will include a review of Greek Mythology, British Literature from the Anglo-Saxon Beowulf, through Shakespeare's Hamlet, to the Victorian period. Students will develop knowledge of the religious, political and social aspects of British society through the literature studied. Writing tasks will focus on critical analysis and evaluation of the literature, novels and original documents studied.

CREATIVE WRITING (English 12 Elective) - 0114**FULL YEAR - 1 CREDIT
GRADE 12**

This is a senior English elective and may be taken as a senior English class or a 5th unit in English. This course will use the traditional writing workshop format to foster student skills in writing short fiction, poetry, and creative nonfiction. There will be an emphasis on class discussions of student work, but with some reading and study of classical and contemporary writers. This course will use peer evaluations to foster student skills in writing. In addition, the course will strive to interrogate guest speakers and lectures from the surrounding academic and art communities. A brief survey of British Literature will also be included.

HEALTH DEPARTMENT

**HEALTH EDUCATION - 1801 Semester
- 1802 Alternate Day**

**HALF YEAR - ½ CREDIT
FULL YEAR - 1 CREDIT
GRADES 11 – 12**

Required Course for Graduation The goal of this twenty week course is designed to meet the New York State graduation requirement and provide health knowledge and skills to promote health-enhancing behaviors in order to reduce health risks. The curriculum addresses health issues facing society today. Mental Health; Drugs; Alcohol and Tobacco Prevention Education; Community Health; Family Life Education; and Disease and Disorders are focused on specifically. (Seniors receive first priority.)

INTRODUCTION TO MEDICINE –1808

**HALF YEAR - ½ CREDIT
GRADES 11 – 12**

Prerequisite: Health Education. This course will begin with offering students National Certification in First Aid, CPR and use of the AED. The course will then progress to an introduction in Gross Anatomy, Physiology, Kinesiology, Exercise Science and end with introduction to the Medical Professions. Students in this program may qualify for college credit. This course has been approved by **Dowling College**.

Library Information Department

The William Floyd High School Library Program is designed to help students meet graduation requirements in all curriculum areas and provide students with materials relative to their interests. The library is open to students in two equally important ways. Teachers may schedule time for their classes to use the library and its resources through collaboration with one of the librarians. Students may also utilize the library on their own during their study hall, lunch and after school extra help sessions. All students who sign in during free periods must have their school I.D. and plan to spend their time well.



Librarians collaborate with subject-area teachers to create, design and develop lessons that meet the needs of each student in order to address and emphasize the New York State learning standards. Through library-based units, students learn to use a variety of resources including both print and electronic; they also develop life-long research skills that strengthen knowledge and understanding across the curriculum. The High School Library book collection is tailored to support curriculum-area learning and reference needs and provides reading resources on all subjects, as well as award winning fiction. Thirty-eight computers allow online learning opportunities and access to a virtual reference collection which offer resources ranging from career and college interest surveys to literary criticism and magazine, newspaper, and encyclopedia articles.

Library-based lessons culminate in the development of projects that demonstrate student learning. For example, our health students create Individual Health Plans tailored to their own family's history, U.S. History students use a PowerPoint driven Regents Preparation Review created by the librarians and their social studies teachers to help them master the Regents exam; English classes learn about the content of a great research paper and the proper format for a paper or create web pages for characters they've studied in class. Librarians teach students to utilize current technology in order to produce sophisticated class projects and maximize student learning. These lessons and skills will aid students in college and in the work force, which is increasingly technologically focused.

LANGUAGES OTHER THAN ENGLISH (LOTE)

9 TH GRADE	10 TH GRADE	11 TH GRADE	12 TH GRADE
Spanish 1 or 2 <i>or</i>	Spanish 2 or 3 <i>or</i>	Spanish 3 or 4*	Spanish 4* or 5*
Italian 1 or 2	Italian 2 or 3	Italian 3 or 4*	Italian 4* or 5*

***Level 4 or 5 courses may be taken for college credit through St. John's University or Suffolk County Community College for qualified juniors & seniors only. Please be advised that in order to qualify, students must meet the eligibility requirements for each college.**

8th grade students may earn one unit of high school credit based upon final course grade, teacher recommendation and performance on the Checkpoint A Exam.

LANGUAGES OTHER THAN ENGLISH SEQUENCES

ITALIAN 1 - 0511

**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

Prerequisite: 8th Grade Italian. Level 1 focuses on the survival skills outlined in Checkpoint A of the State Syllabus. Employing extensive oral/aural activity, the student is placed into real life situations using the Italian language. With the aid of authentic materials, the student will simulate everyday life in an Italian environment through role-playing, dramatizations, and other oral exercises. All students are required to take the Checkpoint A examination at the end of this course.

ITALIAN 2 - 0512

**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

Prerequisite: Italian 1. Level 2 embraces the first half of the proficiencies outlined in Checkpoint B of the State Syllabus. While maintaining emphasis on oral survival skills, this course will also involve the students in readings of a more complex nature, and in the basics of Italian composition.

ITALIAN 3 - 0513

**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

Prerequisite: Italian 2. Level 3 Italian covers the second half of the proficiencies outlined in Checkpoint B of the State Syllabus. This course continues with the emphasis on communication skills. The students will be expected to demonstrate comprehension of lengthy auditory and reading passages. Students will also engage in creative and guided composition. All aspects of the course will center on real life situations, with utilization of authentic materials such as Italian newspapers, magazines, films and video programs. All students are required to take the Checkpoint B examination at the end of this course.

ITALIAN 4 - 0514

**FULL YEAR - 1 CREDIT
GRADES 11 - 12**

Prerequisite: Italian 3. This course concentrates on the conversational aspects of the Italian language as outlined in Checkpoint C of the State Syllabus. This course continues to build oral and written proficiency. Fluency is accomplished by constant oral reinforcement in class. Survival Italian will be combined with reading a survey of Italian literature. Authentic materials will be utilized to provide a better understanding of the Italian language and culture. This course also meets the requirements of Suffolk Community College and St. John's University College Advantage Program, if the student is qualified.

ITALIAN 5 - 0515

**FULL YEAR - 1 CREDIT
GRADE - 12**

Prerequisite: Italian 4. This course completes the Checkpoint C curriculum of the State Syllabus. The course combines the continued study of works of literature with increased oral/aural activities, such as dramatizations and panel discussions. Emphasis is placed on the students' ability to write critically, creatively, and correctly. This course meets the requirements of Suffolk Community College and St. John's University College Advantage Program, if the student is qualified.

SPANISH 1 - 0506

**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

Prerequisite: 8th Grade Spanish. Level 1 focuses on the survival skills outlined in Checkpoint A of the State Syllabus. Employing extensive oral/aural activity, the student is placed into real life situations using the Spanish language. With the aid of authentic materials, the student will simulate everyday life in a Spanish environment through role-playing, dramatizations, and other oral exercises. All students are required to take the Check point A examination at the end of this course.

SPANISH 1B – 0506B**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

This introductory course is designed for a student new to the study of a foreign language. The student will explore the necessary survival skills outlined in Checkpoint A of the State Syllabus. Students will be able to communicate proficiently in the target language at the end of 1 year of study.

SPANISH 2 - 0507**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

Prerequisite: Spanish 1. Level 2 embraces the first half of the proficiencies outlined in Checkpoint B of the State Syllabus. While maintaining emphasis on oral survival skills, this course will also involve the students in readings of a more complex nature, and in the basics of Spanish composition.

SPANISH 3 - 0508**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: Spanish 2. Level 3 Spanish covers the second half of the proficiencies outlined in Checkpoint B of the State Syllabus. This course continues with the emphasis on communication skills. The students will be expected to demonstrate comprehension of lengthy auditory and reading passages. Students will also engage in creative and guided composition. All aspects of the course will center on real life situations, with utilization of authentic materials such as Spanish newspapers, magazines, films and video programs. All students are required to take the Checkpoint B examination at the end of this course.

SPANISH 4 - 0509**FULL YEAR - 1 CREDIT
GRADES 11 - 12**

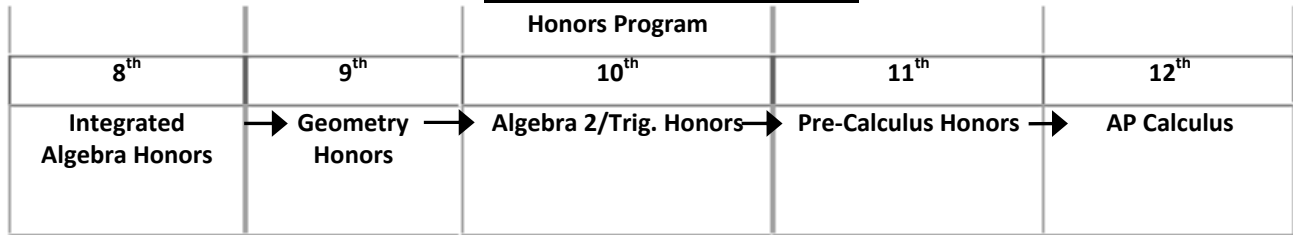
Prerequisite: Spanish 3. This course concentrates on the conversational aspects of the Spanish language as outlined in Checkpoint C of the State Syllabus. This course continues to build oral and written proficiency. Fluency is accomplished by constant oral reinforcement in class. Survival Spanish will be combined with reading a survey of Spanish literature. Authentic materials will be utilized to provide a better understanding of the Spanish language and culture. This course also meets the requirement of Suffolk Community College and St. John's University College Advantage Program, if the student is qualified.

SPANISH 5 - 0510**FULL YEAR - 1 CREDIT
GRADE 12**

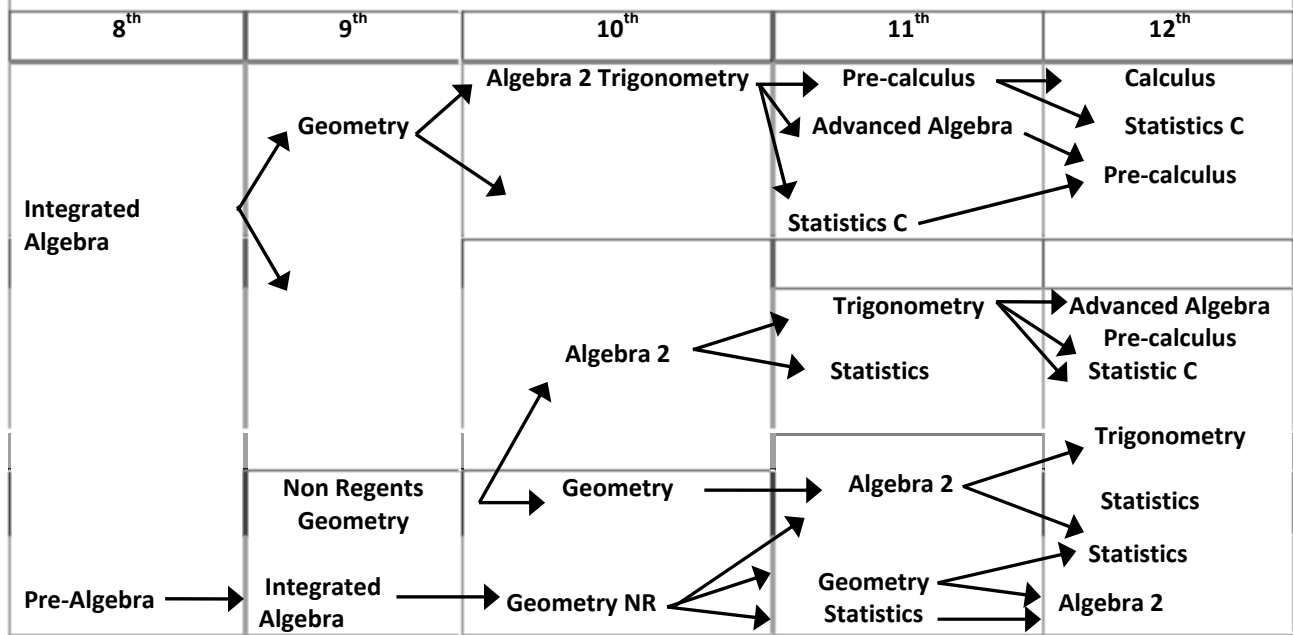
Prerequisite: Spanish 4. This course completes the Checkpoint C curriculum of the State Syllabus, while also meeting the requirements of the St. John's University College Advantage Program. The course combines the continued study of works of literature with increased oral/aural activities, such as dramatizations and panel discussions. Emphasis is placed on the students' ability to write critically, creatively, and correctly.

MATH PROGRAM FLOW CHART

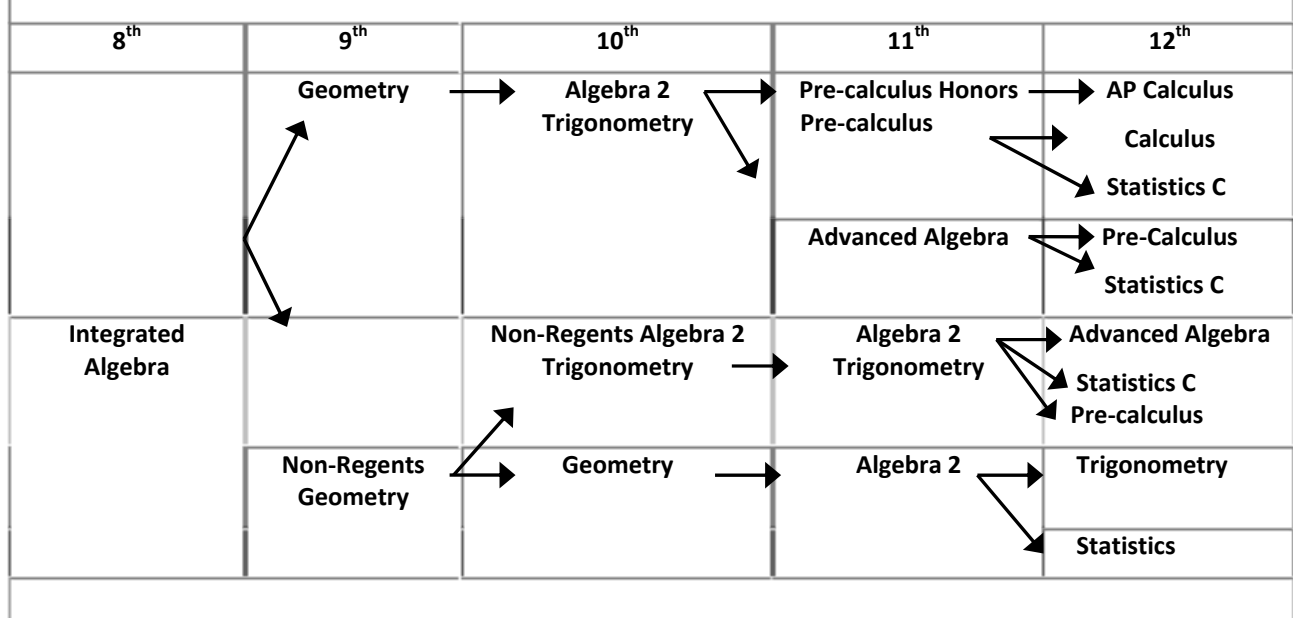
COHORT 2010 AND BEYOND



COHORT 2010 STUDENTS



COHORT 2009 STUDENTS



MATHEMATICS

PRE-ALGEBRA

FULL YEAR - 1 CREDIT

The purpose of the course is to provide a solid background in Algebra. The focus is to develop the prerequisite skills that are needed in order for students to be successful in Integrated Algebra.

INTEGRATED ALGEBRA – 0324 or 0325

FULL YEAR - 1 CREDIT

This one year course will run from September to June, with students taking the Integrated Algebra Regents exam in June. The topics that will be covered in this course are set theory, applications, equations and inequalities, patterns and functions, coordinate geometry, factoring, trigonometry and statistics. Upon successful completion of the Integrated Algebra curriculum students will go on to a Geometry course.

NON-REGENTS GEOMETRY – 0327

FULL YEAR - 1 CREDIT

Prerequisite: Passing grade in Integrated Algebra

This one year course will run from September to June with students taking a midterm exam in January and a final exam in June. The topics that will be covered in this course are shapes, geometric relationships, transformational and coordinate geometry, constructions, Locus, and informal and formal proofs. Upon successful completion of Geometry students will go on to Geometry Regents or Algebra 2.

GEOMETRY – 0326 or 0331

FULL YEAR - 1 CREDIT

Prerequisite: Passing grade in Integrated Algebra and passing the Integrated Algebra Regents exam.

This one year course will run from September to June with students taking the Geometry Regents in June. The topics that will be covered in this course are shapes, geometric relationships, transformational and coordinate geometry, constructions, Locus, informal and formal proofs. Upon successful completion of Geometry students will go on to Algebra II/ Trigonometry.

GEOMETRY HONORS - 0322

**FULL YEAR - 1 CREDIT
GRADE 9**

Prerequisite: Passing grade in Integrated Algebra Honors and Teacher Recommendation.

This one year course will run from September to June with students taking the Geometry Regents in June, in addition to an Honors Midterm Examination in January and an Honors Final Examination in June. The topics that will be covered in this course are shapes, geometric relationships, transformational and coordinate geometry, constructions, Locus, informal and formal proofs, number sense and operations, measurement, and algebra. Upon successful completion of Geometry Honors students will go on to the Algebra II/Trigonometry Honors.

ALGEBRA 2 - 0308

FULL YEAR - 1 CREDIT

Prerequisite: Passing grade in Integrated Algebra and Geometry

This one year course will run from September to June, with students taking a midterm in January and a final exam in June. The topics that will be covered in this course are Integers, Rational numbers, Real numbers and Radicals, Relations and Functions, Quadratic Functions, Complex numbers, Sequences and Series, Exponential Functions, and Logarithmic Functions. Upon successful completion of this course, students will go on to Trigonometry Regents.

ALGEBRA 2/TRIGONOMETRY – 0329**FULL YEAR - 1 CREDIT**

Prerequisite: Passing grade in Integrated Algebra and Geometry and passing both Regents exams with a 75 or higher.

This one year course will run from September to June, with students taking the Algebra 2/Trigonometry Regents Exam in June. The topics that will be covered in this course are number sense and operations, algebra, measurement, and probability and statistics. Upon successful completion of Algebra 2/Trigonometry students will go on to either the Pre-Calculus or Advanced Algebra.

TRIGONOMETRY* - 0309**FULL YEAR - 1 CREDIT**

Prerequisite: Passing grade in Integrated Algebra, Geometry, and Algebra 2 and both Regents exams.

This one year course will run from September to June, with students taking a midterm in January and the Algebra 2 Trigonometry Regents in June. The topics that will be covered in this course are Trigonometric Functions, Graphs of Trigonometric Functions, Trigonometric Identities, Trigonometric Equations, Trigonometric Applications, Statistics, and Probability and the Binomial Theorem. Upon successful completion of this course and the Regents exam, students will go on to Pre-calculus or Advanced Algebra.

ALGEBRA 2/TRIGONOMETRY HONORS - 0330**FULL YEAR - 1 CREDIT
GRADE 10**

Prerequisite: Passing Integrated Algebra Honors and Geometry Honors and both Regents exams.

This one year course will run from September to June, with students taking the Algebra 2/Trigonometry Regents Exam in June. The topics that will be covered in this course are number sense and operations, algebra, measurement, and probability and statistics. Upon successful completion of the Algebra 2/Trigonometry curriculum the students will go on to either Pre-Calculus Honors or Pre-Calculus.

ADVANCED ALGEBRA - 0317**FULL YEAR - 1 CREDIT**

Prerequisite: Passing Algebra 2/Trigonometry.

This course is designed to extend the student's knowledge of Algebra to a *college level*. The first quarter will include extensive preparation to improve skills necessary to increase SAT scores. A variety of algebraic and mathematical topics will be covered, which students can utilize in their mathematics education beyond high school. Students will be required to take a departmental final, but no Regents at the end of this course.

PRE-CALCULUS – 0318**FULL YEAR - 1 CREDIT**

Prerequisite: Passing Algebra 2/Trigonometry course and Regents.

This course is a more rigorous and faster paced course than Advanced Algebra. Course content includes selected topics in Advanced Algebra, Probability, Statistics, and Analytic Geometry. Students will take a departmental final, but no Regents exam at the end of this course. Students will have the option of taking Pre-Calculus for 3 college credits.

HONORS PRE-CALCULUS-0319**FULL YEAR - 1 CREDIT**

Prerequisite: This course is offered to students who have passed the Algebra 2 Trigonometry Honors Course, this course is the prerequisite for Advanced Placement Calculus

Topics include polynomial and rational functions, exponential and logarithmic graphs, conics, sequences, and introduction to limits and calculus. Upon successful completion of Honor Pre-Calculus, students will go on to AP Calculus or Calculus. Students will have the option of taking Honors Pre-Calculus for 3 college credits.

CALCULUS – 0321**FULL YEAR - 1 CREDIT****Prerequisite: Passing grade in Pre-Calculus or Pre-Calculus Honors.**

This course is designed to be a first year, college level course in Calculus. Course content includes: Cartesian Coordinates; Equations of Curves; Derivatives of a Function; Differentiation of Algebraic Functions; Ratios and differentials; Indefinite Integrals; Definite Integrals; Application of the Fundamental Theorem; Extreme Values; Exponential and Log Functions; Trigonometric Functions; the Mean Value Theorem; Integration of Standard forms; and Polar Coordinates. Students will have the option of taking Pre-Calculus for 4 college credits.

ADVANCED PLACEMENT CALCULUS – 0320**FULL YEAR - 1 CREDIT**

Prerequisite: Passing grade in Pre-Calculus Honors. This course is designed to be a first year, college level course in Calculus. Course content includes: Cartesian Coordinates; Equations of Curves; Derivatives of a Function; Differentiation of Algebraic Functions; Ratios and Differentials; Indefinite Integrals; Definite Integrals; Application of the Fundamental Theorem; Extreme Values; Exponential and Log Functions; Trigonometric Functions; the Mean Value Theorem; Integration of Standard forms; and Polar Coordinates.

ALL STUDENTS ARE REQUIRED TO TAKE THE ADVANCED PLACEMENT EXAMINATION AT THE END OF THIS COURSE.

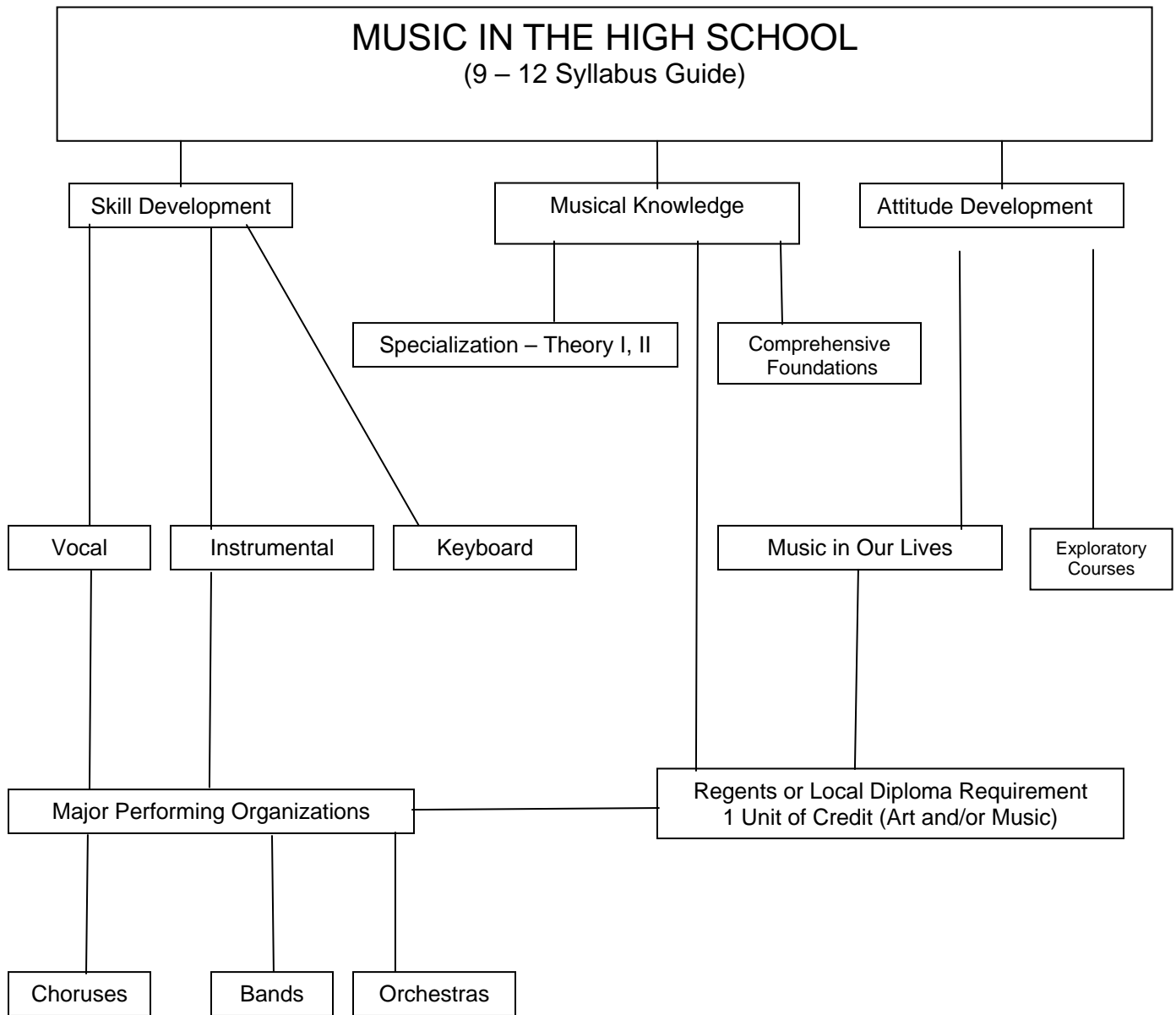
STATISTICS – 0310 C**FULL YEAR - 1 CREDIT****Prerequisite: Passing grade in Integrated Algebra, Geometry and Algebra 2 Trigonometry.**

This course is designed to be a first year, college level course in Statistics, for students interested in social sciences, health sciences, business, and industry. Course content includes: Sample Space, statistical models, binomial and normal distribution, t-distribution, and chi-square distribution. Students will have to option of taking this course for 3 college credits.

STATISTICS – 0310**Prerequisite: Passing grade in Integrated Algebra and a Geometry course.**

This course may be used as a third year of mathematics required for graduation. This course is for students interested in social sciences, health sciences, business, and industry. Course content includes: Sample Space, Statistical models, Binomial and Normal distribution, T-distribution, and Chi-square distribution.

MUSIC EDUCATION



MUSIC

COLONIAL BAND - 1001

**FULL YEAR - 1 CREDIT
GRADES 9 - 11**

Prerequisite: Recommendation from previous year's instructor. The Concert Band is the course for all wind instrument players and percussionists entering their first year in the high school band program. Students will learn rehearsal and performance fundamentals while studying level IV concert band literature as outlined in the New York State School Music Association manual. Students are required to perform at local concerts and participate in the annual NYSSMA Major Organization Festival. Band members are also required to participate in marching band where they will study marching band music and learn the fundamentals of parade marching and field drill design maneuvers. A weekly lesson is also required of all band members.

This course may be used to meet the one unit New York State Arts requirement for graduation.

WIND SYMPHONY - 1003

**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: Recommendation of previous year's instructor. Membership is by audition and recommendation of the previous year's instructor. The Wind Ensemble is the course for all 10th, 11th, and 12th grade wind instrument players and percussionists who desire to learn advanced rehearsal and performance techniques while studying Level VI concert band literature as outlined in the New York State School Music Association manual. Students are required to perform at local concerts and participate in the annual NYSSMA Major Organization Festival. Band members are also required to participate in marching band and learn the fundamentals of parade marching and field drill design maneuvers. A weekly lesson is also required of all band members.

CONCERT ORCHESTRA - 1016

**FULL YEAR - 1 CREDIT
GRADES 9 - 10**

Prerequisite: Recommendation of previous year's instructor. Concert Orchestra is the course for all string instrument players entering the 9th and 10th grades in the high school orchestra program. Students will learn rehearsal and performance techniques while studying level IV and V concert orchestra literature as outlined in the New York State School Music Association manual. Students are required to perform at local concerts and participate in the annual NYSSMA Major Organization Festival. A weekly lesson is also required of all orchestra members.

This course may be used to meet the one unit New York State Arts requirement for graduation.

SYMPHONIC ORCHESTRA - 1004

**FULL YEAR - 1 CREDIT
GRADES 11 - 12**

Prerequisite: Recommendation of previous year's instructor. Symphonic Orchestra is the course for all string instrument players entering 11th and 12th grades in the high school orchestra program. Students will learn rehearsal and performance techniques and be required to learn solos. Repertoire is chosen from Level V and VI concert orchestra literature as outlined in the New York State School Music Association manual. Students are required to perform at local concerts and participate in the annual NYSSMA Major Organization Festival. A weekly lesson is also required of all orchestra members.

CONCERT CHOIR - BOYS 9-12 - 1006
GIRLS 10-12 - 1006

FULL YEAR - 1 CREDIT
GRADES 11 - 12

Prerequisite: Recommendation of previous year's instructor. The *William Floyd Concert Choir* explores and performs vocal music from all ages and styles. Students are required to attend a weekly voice lesson in order to improve skills and learn solo repertoire. Students will have an opportunity to be selected to audition for participation in the various All-County, All-State and All-Eastern choruses. Attendance at the following functions is required: Winter and Spring Concerts, NYSSMA Major Organization and other public performances (notification one month prior to event). **This course may be used to meet the one unit New York State Arts requirement for graduation.**

WOMEN'S CHOIR – 1005

FULL YEAR - 1 CREDIT
GRADES 9 - 10

Prerequisite: Recommendation of previous year's instructor. The Women's Choir studies the art of choral singing through music from various time periods and styles. Music literacy encompassing rhythmic reading, tonal sight reading and musical terminology will be taught during required weekly lessons. Students are required to perform at local concerts and participate in the annual NYSSMA Major Organization Festival. **This course may be used to meet the one unit New York State Arts requirement for graduation.**

MUSIC IN OUR LIVES – 1012

FULL YEAR - 1 CREDIT
GRADES 9 - 12

Prerequisite: None. Music in Our Lives is an elective music course designed to fulfill the graduation requirement. The course will focus on the basic elements of music. A primary goal of this course is to elicit a meaningful response to a wide range of musical styles, to heighten each students' aesthetic experience and to use ones own intellect and imagination in order to better understand music's role in the history of civilization. **This course may be used to meet the one unit of Art/Music requirement.**

MUSIC THEORY 1 - 1007

FULL YEAR - 1 CREDIT
GRADES 9 - 12

Prerequisite: A basic understanding of staff notation and participation in one of the performing groups (orchestra, band and chorus). This course is designed for students who are considering studying music beyond high school or those who have a sincere desire to study the structure of music in more detail. This course will introduce students to the basic rudiments of music theory. Major and minor scales, rhythmic and pitch notation, key signatures, intervals and triads will be studied. Class activities will include sight singing and dictation. Compositions of melodic and rhythmic speaking pieces will be explored.

MUSIC THEORY 2 – 1008

FULL YEAR - 1 CREDIT
GRADES 10 - 12

Prerequisite: Successful completion of Music Theory 1 – or – a successful challenge of Music

Theory 1 and the Regents Exam. Theory 2 is an elective course which explores advanced levels of study in harmonic and melodic analysis, counterpoint as well as further development of sight singing and dictation skills. Keyboard activities will be included where appropriate to the topic. A composition in four part texture will be explored. Students in this course will be exposed to a level of study suitable for the Advanced Placement Exam and may elect to take the exam at the commencement of the course. This course is strongly recommended for students planning a career in music.

PIANO 1 - 1010**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: None. Piano 1 is open to all students and recommended for all music majors. This course is designed to teach fundamental keyboard techniques including basic note reading, ear-training and the acquisition of all the basic elements that lead to an artistic performance. At the completion of this course, students will have acquired enough skill to play simple arrangements and accompaniments. Students who have some keyboard experience should see the instructor for an evaluation of their skills. In some cases, students may be permitted to take Piano 2 with instructor approval.

PIANO 2 - 1011**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: Piano 1 or permission of instructor. Students who have some keyboard experience should see the instructor for an evaluation of their skills. In some cases, students may be permitted to take Piano 2 with instructor approval. Piano 2 will continue to build upon the skills and concepts acquired in Piano 1. Appropriate solo material suited to individual skill levels will be prepared. Acceptable performance of music reflective of NYSSMA Level I and Level II will be required.

PIANO 3 – 1017**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Pre-requisite: Piano 2 or permission of instructor. Students will be required to perform all scales and basic keyboard progressions in all keys. Emphasis will be placed on the performance of simple accompaniment and harmonization of melody. Composition of an original keyboard piece will be required. Acceptable performance of music reflective of NYSSMA level I and level II will be required.

STUDENTS MUST BE RECOMMENDED BY THEIR INSTRUCTOR FOR THE FOLLOWING COURSES. THESE COURSES MEET AFTER SCHOOL.**SELECT CHORUS GRADES 9 – 12 - 1020
(Meets after school)****HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Prerequisite: Membership in Mixed Chorus, or Women’s Choir by Audition. 9th and 10th grade Select Chorus is a select ensemble of 20-30 students which specializes in the performance of smaller choral ensemble literature. Madrigals, pop tunes and vocal jazz styles will be performed. The group meets after school hours and performs at various school and community functions.

**JAZZ ENSEMBLE – 1021
(Meets after school)****HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Prerequisite: Student audition, membership in Band and recommendation of instructor. Jazz Ensemble is a small, select ensemble specializing in the performance of jazz and popular music. Students will be encouraged to develop technique in all pop idioms especially improvisation. The Jazz Ensemble meets one evening a week for two hours. The Jazz Ensemble performs at various festivals as well as many school and community functions throughout the year. One half-credit can be earned if attendance requirements are met.

NAVAL SCIENCE

The Naval Science Program can best be described as a citizenship program which is co-sponsored by the William Floyd School District and the United States Navy. The program is staffed by Naval Science Instructors who are retired Navy personnel and certified by both the U.S. Navy and the New York State Education Department to perform their duties as NJROTC instructors and administrators. The four-year NJROTC program is designed to build leadership and citizenship in participating cadets. This is done through a broad social science academic approach, and a practical, guided leadership experience in naval organization and administration of the unit. The curriculum emphasizes the behavioral aspects of leadership as well as the relationship of the seas to American history, world geography, international relations, and economics. Military conduct, appearance and drill, as well as the wearing of the Navy uniform, are utilized to emphasize self-discipline and teamwork concepts.

While each year of Naval Science is designed to stand independently; there is a continuity of purpose throughout the program. Each year, the course assists in building a basis for more advanced study of the Navy and sea power as it relates to the nation.

This course offering is co-educational and includes extracurricular activities such as drill team, color guard, at-sea cruises in U.S. Navy vessels and visits to naval bases along the Eastern seaboard. Cadets are absolutely under no obligation to enlist in a military service as a result of enrollment in NJROTC. Naval Science courses may be taken for Regents or Local credit and satisfy State Education Department requirements for a 3-year course sequence.

NAVAL SCIENCE 1 – 1804

**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

In Naval Science 1, cadets receive initial education on naval information, naval organization, career opportunities, navigation, seamanship, and military drill. Cadets are provided with Navy uniforms and are instructed on the proper wear and care of them. Cadets are taught military drill, marching, and ceremonial procedures in order to instill teamwork and self-discipline in each cadet.

NAVAL SCIENCE 2 – 1805

**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Naval Science 2 is a follow-up of Naval Science 1 with emphasis on the development of leadership skills. Having already satisfactorily completed the basic introduction to military drill, cadets now participate as drill leaders and are introduced to the use of dummy drill rifles and military dress swords. Maritime History is continued and the study of meteorology, oceanography, seamanship, navigation, and aviation are presented. Navy organization and administrative techniques are emphasized.

NAVAL SCIENCE 3 - 1806

**FULL YEAR - 1 CREDIT
GRADES 11 - 12**

Naval Science 3 is a follow-up of Naval Science 2. Third year cadets are expected to take an active part in planning the activities of the unit and assist in leading the cadet company through the yearly cadet activities. The academic syllabus includes Navy history as it relates to World War II, meteorology, astronomy and the role of the U.S. Navy in world affairs.

NAVAL SCIENCE 4 - 1807

**FULL YEAR - 1 CREDIT
GRADE 12**

In Naval Science 4, cadets are expected to use the leadership skills they have acquired to lead, inspire and motivate the younger cadets. They are assigned as class leaders and are tasked with helping the new cadets learn the ropes. Naval Science 4 cadets improve their administrative and organizational skills by assisting with the myriad of administrative, supply, operational functions; and reports involved with operating the NJROTC unit.

PHYSICAL EDUCATION

Students must earn 2 credits in Physical Education in high school to earn a high school diploma. A half credit is granted for a full year of Physical Education scheduled every other day. Activity units, including but not limited to those listed below, may be required or elected, and range in length from 5 to 10 weeks. Written and performance tests may be required in all instructional units. Grades will be numerical and will be based on participation, performance and knowledge testing. A final grade will be computed by averaging the grades for each marking period. A minimum final average of 65 must be attained to receive credit for the year.

Students with restrictions (temporary or permanent) which limit full participation in the regular activity program may earn credit in one of the following ways:

- audit the regularly scheduled class*
- reschedule into a modified class which provides activity within the specified limitations*
- complete written assignments relevant to program content*

TRADITIONAL PHYSICAL EDUCATION-BOYS

**½ CREDIT
GRADES 9 - 12**

BOYS ALT. DAYS - 1100

BOYS SEMESTER - 1111 (special permission only)

This program exposes students to a wide variety of suitable activities. Some of the activities include:

Aerobics	Handball	Team Handball
Adventure Activities	New York State Physical Fitness Test	Tennis
Badminton	Soccer	Track and Field
Basketball	Softball	Volleyball
Bowling	Speedball	Walking Wellness
Flag or Touch Football	Spasketball	Weight Training
Golf	Table Tennis	

Each of the individual activities offered will depend upon variables such as staff, class size, and facilities.

***By Special Permission Only**

TRADITIONAL PHYSICAL EDUCATION –

GIRLS / ALT DAY - 1105

GIRLS / SEMESTER - 1112 (special permission)

**½ CREDIT
GRADES 9 - 12**

This program is designed to provide the student with the opportunity to experience Team Sports. The Traditional Activities include:

Football	Basketball	Softball	Volleyball	Badminton
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TRADITIONAL PHYSICAL ACTIVITIES AND FITNESS ACTIVITIES -

GIRLS - 1105C

**½ CREDIT
GRADES 10 - 12**

This program is designed to provide the student with the opportunity to experience both Team Sports and Fitness Activities. In addition to the activities above, the Fitness Activities include:

Yoga	Step Aerobics	Core Training	Wellness Center Workouts	Zumba
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FITNESS ACTIVITIES ONLY - GIRLS - 1105F

**½ CREDIT
GRADES 10 - 12**

This program is designed for the student who enjoys Fitness Activities rather than participation in Sports. The student will be involved in Personal Fitness Assessment, Fitness Program Design, Evaluation Techniques as well as participation in:

Yoga	Step Aerobics	Core Training	Wellness Center Workouts
Physioball	Kick Boxing	Power Walking	Body Toning Program

FITNESS ACTIVITIES ONLY – BOYS – 1100F

**½ CREDIT
GRADES 10 - 12**

This program is designed for the student who enjoys Fitness Activities rather than participation in Sports. The student will be involved in Personal Fitness Assessment, Fitness Program Design, Evaluation Techniques as well as participation in:

Agility & Speed Training	Flexibility	Step Aerobics
Core training	Plyometrics	Weight Training

PROJECT ADVENTURE – CO-ED / ALT. DAY - 1107

**½ CREDIT
GRADES 10 - 12**

For sophomores, juniors and seniors. This course involves innovative games and group problem-solving initiatives that encourage students to develop greater self-confidence, while at the same time acquiring a sense of trust and commitment to their classmates. Students will first participate in low element activities and then progress at their own pace which will test their limits physically, mentally and emotionally. Students will also be involved in other fitness and physical education activities.

SCIENCE SEQUENCES

For Students in the 2008 Cohort and Previous

Each Course is One credit	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Honors	Chemistry Regents Honors	AP Chemistry	AP Biology	One of the following: Earth Science Regents AP Environmental Physics Regents AP Physics Techno-Physics Electives in Science
Advanced Regents	Earth Science Regents	Living Environment Regents	Chemistry Regents Or Electives in Science	One of the following: AP Biology AP Chemistry AP Environmental Physics Regents Electives in Science
Regents *	Earth Science → Regents Or Living Environment → X-1 Regents (No alt. day Labs)	Living Environment → Regents Living Environment → Regents	Electives in Science. Earth Science	Electives in Science

*MGR = Meets Graduation Requirements (New York State) for a third year of Science.

For Students in the 2009 Cohort

8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Living Environment → Regents or Living Environment X1 →	Earth Science → Regents or Living Environment Regents →	Chemistry/ Regents or Electives → Or Earth Science → Regents	Physics Regents or AP Electives or Electives Chemistry Regents or Electives	Electives Electives

Students must complete the New York State required lab components in order to take The Regents Exam.

For students in 2010 Cohort and Beyond

	8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Honors	Earth Science→	AP Chemistry→ (H) 10 periods	AP Biology→ 10 periods	AP Physics→ 10 periods	AP Environmental 10 periods
Advanced Regents	Living Environment Regents	Earth Science Regents	Chemistry Regents or Electives	Physics Regents or AP Electives or electives	Electives
Regents	LX1	Living Environment Regents	Earth Science Regents	Chemistry Regents or Electives	Electives

SCIENCE

**EARTH SCIENCE – 0401 (9th)
0402 (10 – 12th)**

**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

Pre-requisite: None. This course of study includes Astronomy, Earth’s origin, structure, composition, surface features and atmosphere. The curriculum is based on the Physical Setting/Earth Science Core Curriculum of New York State, which aims to develop an understanding of certain processes basic to Earth Science by means of student investigations. A 30 lab minimum is required to sit for the Regents exam. All students meeting the lab requirement are required to take a Regents examination at the end of this course, which counts as 20% of their final average. Meets 7 periods per week.

ADV. PLACEMENT ENVIRONMENTAL SCIENCE - 0424

**FULL YEAR - 1 CREDIT
GRADES 11 or 12**

Prerequisite: Successful completion of Earth Science, Living Environment, and Chemistry Regents with a grade of 85 or above or approval from the Department Chair. The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will also identify and analyze environmental problems, and examine alternative solutions for resolving and/or preventing them. The course will focus on “real science” behind environmental problems and issues. Laboratory and field studies are important elements of the course.

LIVING ENVIRONMENT X-I

**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

Pre- requisite: None. This Regents level science course is intended for those students who have experienced difficulty with middle school science, and the Intermediate-Level Science Examination. The course is an introduction to the New York State Core Curriculum for *The Living Environment*, with an emphasis on body systems. The course structure contains a lecture/lab component without additional scheduled lab periods.

**LIVING ENVIRONMENT – 0405 (9th)
0406 (10 – 12th)**

**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

Pre-requisite: None. This course is based on the Living Environment Core Curriculum of the New York State Learning Standards. The course of study provides an in-depth study of life, structure and function, relationships and interactions of a variety of organisms. The concept of interdependence of all life on Earth is interwoven throughout the curriculum; which includes units on ecology, evolution, genetics, reproduction and development, homeostasis, and ecology. A 30 lab minimum is required to sit for the Regents exam. All students meeting the lab requirement are required to take a Regents examination at the end of the course which counts as 20% of their final average.

Meets 7 periods per week.

**ADVANCED PLACEMENT BIOLOGY– 0420
(HONORS TRACK)**

**FULL YEAR - 1 CREDIT
GRADES 10 - 11**

Pre-requisite: Successfully completed Advanced Placement Chemistry (Honors Track). This course will be equivalent of college level freshman biology, along with the New York State Regents Curriculum in the Living Environment. Students will be required to sit for both the Advanced Placement Test and the Regents exam at the end of the course. **This course will meet 10 periods a week.** College credit through **Dowling College** may be available. Students are required to take the AP exam which is administered in May of each school year as well as the New York State Regents exam in June. A 30 lab minimum is required to sit for the Regents exam which counts as 20% of their final average.

ADVANCED PLACEMENT BIOLOGY – 0407

**FULL YEAR - 1 CREDIT
GRADES 11-12**

Pre-requisite: Satisfactory completion of Regents Biology and Regents Chemistry with a minimum final grade of 90. This course is the equivalent to a college course in freshman Biology. The Advanced Placement Exam will be administered at the end of the year. This course will meet 7 periods per week. College credit through **Dowling College** may be available.

CHEMISTRY – 0409

**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Pre-requisites: Successful completion of Living Environment and Earth Science. Students should have taken or be currently enrolled in Algebra 2/Trigonometry. This course is based on the Physical Setting/Chemistry Core Curriculum of New York State. The course of study includes matter and energy, atomic structure, bonding, periodic table, mathematics of chemistry, organic chemistry, and application of the principles of reactions. A 30 lab minimum is required to sit for the Regents exam. All students meeting the lab requirement are required to take a Regents examination at the end of the course which counts as 20% of their final average. Meets 7 periods per week.

ADVANCED PLACEMENT CHEMISTRY HONORS – 0417

**FULL YEAR - 1 CREDIT
GRADE 9**

Pre-requisites: Successfully completed or currently enrolled in Geometry. Mastery level completion of Earth Science Honors and the recommendation of the Advanced Placement Committee. This course will be the equivalent of college level freshman Chemistry along with the New York State Regents Curriculum Chemistry. Students will be required to sit for the Advanced Placement test at the end of the year. This class meets 10 periods per week. Students are required to take the AP exam which is administered in May of each school year as well as the New York State Regents exam in June. A 30 lab minimum is required to sit for the Regents exam which counts as 20% of their final average.

ADVANCED PLACEMENT CHEMISTRY – 0410**FULL YEAR - 1 CREDIT
Grades 10 - 12**

Pre-requisites: Successfully completed or currently enrolled in Algebra 2/Trigonometry; satisfactory completion of Regents Chemistry; and a cumulative average of 85 on previous Math and Science Regents Exams, OR written approval from the Department Chairperson.

This course is the equivalent of a college course in freshman chemistry. The Advanced Placement Exam will be administered at the end of the year. This class meets 7 periods per week.

PHYSICS - 0411**FULL YEAR - 1 CREDIT
GRADES 11 - 12**

Pre-requisites: Successful completion of Living Environment and Earth Science, a grade of 80 or better in chemistry, and a grade of 80 or better in the three-year Regents Math sequence. This course is based on the Physical Setting/Physics Core Curriculum of the New York State Learning Standards. The course of study includes matter at rest and in motion, heat energy, waves, electricity, sound, light, and nuclear structure. A 30 lab minimum is required to sit for the Regents exam. All students meeting the lab requirement are required to take a Regents examination at the end of this course, which counts as 20% of their final average. Meets 7 periods per week. Possible college credit through the **St. John's** program may be available.

ADVANCEMENT PLACEMENT PHYSICS B - 0442**FULL YEAR - 1 CREDIT
GRADES 11 -12**

Pre-requisites: Successful completion of AP Chemistry Honors and AP Biology Honors.

This course will be the equivalent of a college level freshman Physics course, along with the New York State Regents curriculum in Physics. The students will be required to sit for both the Advanced Placement test and the Regents exam at the end of the course. This course will meet 10 periods a week. Students are required to take the AP exam which is administered in May of each school year as well as the New York State Regents exam in June. A 30 lab minimum is required as 20% of their final average. Possible college credit through the **St. John's** program may be available.

GENERAL CHEMISTRY - 0454**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

This course presents an overview of the major understandings and fundamental concepts in chemistry. Emphasis will be placed on practical, hands-on applications of chemistry in everyday life. Topics include the scientific method, matter and energy, the atom, the periodic table, bonding and chemical reactions.

ASTRONOMY - 0413**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Pre-requisite: Successfully completed two years of science. This course deals with distinguishing stars and constellations; finding sky objects by the use of terrestrial coordinates; study of the planets by means of a trip through the solar system; and a basic understanding of the way a telescope works with the possible construction of telescopic instruments.

ENVIRONMENTAL SCIENCE - 0414**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

This course aims to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course aims to: identify and analyze environmental problems (both natural and human-made), evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them.

FORENSICS - 0416**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

This course is a natural extension of all students' science education with an emphasis on real life applications. This course uses the knowledge gained from previous science courses to investigate the activities utilized in a crime lab. These include laboratory exercises in fingerprinting, ballistics, serology, hair and fiber examination, anthropology, botany, document and handwriting analysis and other analytical procedures. The investigation of DNA for typing and profiling will also be included.

MARINE SCIENCE - 0418**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

In this course students will study the physical characteristics of the oceans, life that lives in these vast areas and how man in the future will utilize the oceans of the world to benefit man kind. Students demonstrate their proficiency through topical investigations, class discussion and participation, quarterly examinations, completing a major project or report, and taking a final examination. This is a one-semester course.

METEOROLOGY - 0419**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

In this course students will be studying weather phenomena such as blizzards, hurricanes, thunderstorms and tornadoes. In this course, both nature's violent outbursts, and the more mundane day-to-day atmosphere stability, forms of condensation and precipitation, air pressure and winds, air masses, and weather analysis and forecasting will be covered in this course. Students demonstrate their proficiency through topical investigations, class discussion and participation, quarterly examinations, keeping daily weather logs, and taking a final examination. Students will be collecting and comparing data with the guidance of NOAA and the Brookhaven National Laboratory.

SOCIAL STUDIES SEQUENCES

Four Years of Social Studies is the Requirement for Graduation

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Regents Global History & Geography I	Regents Global History & Geography II	Regents US History & Government	Economics (1/2 Year) and Participation in Government (1/2 Year)
World History AP® Prep	AP® World History	AP® U.S. History	AP® US Gov't. & Politics (Full Year) and/or AP® Economics (Full Year)
			<u>Electives:</u> Criminal Justice (1/2 Year) Psychology (1/2 Year) Public Service Internship (1/2 Year)

SOCIAL STUDIES

GLOBAL HISTORY & GEOGRAPHY 1 – 0201

**FULL YEAR - 1 CREDIT
GRADE 9**

Prerequisite: None. Part of the two-year Global History course organized in a chronological / thematic sequence with historical development considered from the ancient world to the 1750's. The course is designed to provide understanding of the peoples, their countries, the interrelationships among them, and the various social, religious, political, and economic institutions within the time periods.

WORLD HISTORY AP PREP - 0202

**FULL YEAR - 1 CREDIT
GRADE 9**

Prerequisite: Successful completion of Social Studies 8 Honors or Social Studies 8 Standard with a 90 or better average and teacher recommendation. World History AP Prep is offered to qualified freshmen who intend to enroll in AP® World History in their sophomore year. Student will acquire advanced reading and writing skills through a study of the first half of the AP® World History curriculum, which offers balanced global coverage with Africa, the Americas, Asia, and Europe all represented. It emphasizes relevant factual knowledge and skills in analyzing and interpreting historical evidence.

GLOBAL HISTORY & GEOGRAPHY 2 – 0203

**FULL YEAR - 1 CREDIT
GRADE 10**

Prerequisite: Global History 1. Part two of the two-year Global History and Geography program from the 1750s to the present day. Interactions and linkages among nations and peoples will be explored to ascertain how the past influences the present. **All students are required to take and pass the Global History & Geography Regents Exam in June.**

AP® WORLD HISTORY – 02**FULL YEAR - 1 CREDIT
GRADE 10**

Prerequisite: Successful completion of World History AP® Prep. AP® World History is offered to qualified students who wish to complete studies equivalent to an introductory college course in world history. The course continues the second half of the AP® World History curriculum from 1750 to the present day. Students will continue to build upon the requisite skills for success at an advanced level of study. The course demands upon students are equivalent to an introductory world history course at the college level. **Students are required to take the Advanced Placement World History Exam administered in May and the Global History & Geography Regents Exam in June.**

UNITED STATES HISTORY & GOVERNMENT – 0205**FULL YEAR - 1 CREDIT
GRADE 11**

Prerequisite: Global History & Geography 2 or AP® World History. This course will provide students with a sense of the social, political, and economic development of the United States through a chronological survey of United States History. Constitutional and legal issues will be explored in depth, as well as the problems of a dynamic and technological society in an increasingly complex and interdependent world. **Students are required to take and pass the NYS United States History & Government Regents Exam in June.**

AP® UNITED STATES HISTORY – 0206**FULL YEAR - 1 CREDIT
GRADE 11**

This course has an extra period writing lab that meets every other day.

Prerequisite: Successful completion of AP® World History or Global H&G 2 with a 90 or better average and teacher recommendation. AP® United States History is offered to qualified students who wish to complete studies equivalent to an introductory two-semester college course in American history from the Pre-Columbian Age to the present day. Students will learn how to assess primary and secondary source materials in order to determine their relevance to a given interpretive question. Persuasive essay writing will be emphasized. **Students are required to take the Advanced Placement United States History Exam administered in May and the NYS United History & Government Regents Exam in June.**

ECONOMICS – 0209**HALF YEAR - ½ CREDIT
GRADE 12**

This course is designed to be a culminating study focusing on New York State's learning standards on economics, the free enterprise system, and finance. The fundamental economic concepts of scarcity, productivity, supply and demand, and global interdependence will be examined. The role of the consumer, business, labor, and government will also be studied. Economics provides a unique opportunity for students to combine knowledge of the theoretical with practical, real-life decisions about employment options, consumer choices, and personal finance. Students are required to complete both a personal budget project and an investment project. **Successful completion of this course is a NYS requirement for graduation.**

PARTICIPATION IN GOVERNMENT -021**HALF YEAR - ½ CREDIT
GRADE 12**

This course is designed to be a culminating study focusing on New York State's learning standards on civics, citizenship, and government. Fundamental to Participation in Government is a course of study that has students define, analyze, and discuss contemporary issues and policies at the local, state, national, and international levels. The course reflects an issue-based approach to public policy, the tools and skills needed for community-based learning experiences, and the content knowledge needed for effective citizenship. Students are required to complete both community-based learning experiences and a public policy issue research paper. **Successful completion of this course is a NYS requirement for graduation.**

TECHNOLOGY

Technology Education is the application of the latest scientific discoveries to improve the quality of people's daily lives. For everyone entering the job market in the 21st Century, the ability to operate and comprehend today's technologies is critical. Technology Education has been established to introduce students to the latest technologies currently utilized by business and industry, and to explore and develop skills through an active hands-on approach in a project oriented curriculum. Our projects are designed to incorporate learning, challenge students and to be fun.

Incorporated in our program are many forms of computer technology and career exploration. Students will have the opportunity to learn career-oriented applications of technology, including Computer Aided Design, Computer Animation, Video Editing and more. Technology Education helps students develop skills, both interpersonal and job related, which are necessary for them to become active and productive members of the community. We do this by providing a positive learning environment where students are encouraged and expected to achieve their highest potential.

The Technology Education Department provides students with the opportunity to earn a 5-credit sequence in Technology Education as an alternative to the 3-credit requirement in World Language for an Advanced Regents Diploma.

In addition, the following classes may be used to satisfy general education graduation requirements:

Electronics.....A third unit of Math or Science

Principles of Engineering..... A third unit of Math or Science

Design and Drawing.....The one unit of Fine Arts Requirement

TECHNOLOGY IS HUMAN INNOVATION IN ACTION

TECHNOLOGY

A five-unit sequence in Technology may be used as a substitute for the three units World Language requirement for an Advanced Regents diploma.

5-UNIT TECHNOLOGY SEQUENCE:

Required courses:

- Design and Drawing (1 unit)
- Electronics (1unit)
- Career and Money Management (1/2 unit)
[See course description in Business section]

PLUS

2.5 additional units of technology electives

ARCHITECTURAL PROBLEMS – 0802**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: None. This course will introduce students to the interesting field of Architecture. Students will learn to draw site foundations, framing, floor plans, and exterior elevations. Residential Architecture, financing a home, construction techniques and careers in the field of architecture are all topics that will be addressed. Upon successful completion of this course, you will have an in-depth understanding of architectural concepts and design, and the various careers available in the architectural field.

ARCHITECTURAL DESIGN – 0803**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: Architectural Problems. This course is for the student who wants to further his/her knowledge and skills in the field of Architecture. Areas of study will include the planning and design of single family dwellings and small commercial buildings. The creative and technical skills needed in order to accomplish this will be taught through the completion of detailed, scaled drawings and models relating to all phases of construction. Upon successful completion of this course, you will have designed and drawn a complete finished set of working drawings for a house of your choice.

Activities include:

- Sketching
- Floor plan design
- Exterior elevations
- Blueprinting
- Modeling

ELECTRONICS - 0805**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

(This course may be used as a third unit of Math or Science)

Prerequisite: None. The first semester of this course is a hands-on introduction to electricity as it is used in the home, in the modern automobile, and in the communication field. It offers you the opportunity to explore one of today's most fascinating and fastest growing fields in a laboratory/shop environment. Working in small groups, students will learn how to wire circuits, operate many interesting and useful pieces of equipment, troubleshoot electronic equipment, and construct take-home projects that are both fun and worthwhile. The second semester of this course focuses on audio electronics and offers students the opportunity to investigate the basic principles of operation of audio equipment. Students will learn about and gain experience with the consumer aspects of Audio Electronics. This course is designed to provide students with direct hands-on experience and, as such, will be organized and taught within a lab-centered environment.

COMMUNICATIONS SYSTEMS – 0808**HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Prerequisite: None. This course will introduce you to the area of Communications Technology. You, the student, through the use of hands-on activities and state-of-the-art equipment, will explore the realm of communications. You will study how man has communicated from the first printing press up to the internet. You will have the opportunity to use computers to create graphics, animations, and web pages. Students will use digital photography and image enhancement software to create and alter "professional quality" images. Students will be learning the technology of GPS and (Global Positioning Systems) doing various experiments using GPS software and hardware. Students can work individually or in small groups in a laboratory atmosphere. Software used includes: Photoshop Lt, Paint Shop Pro, Flash, Movie Maker, 3D Studio Max and Google Earth.

COMPUTER AIDED DESIGN (CAD) - 0811**HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: None but Drawing and Design is suggested. Computer Aided Design is the use of a computer with the appropriate software to design and draw what would normally be done using paper and traditional drawing equipment such as T-squares, triangles and compasses. This course will introduce you to this area of technology with hands-on experiences creating computer-generated drawings through various input devices. You will be able to graphically display the images created, modify them, make a hard copy, or save them for future use. The CAD system is very much like a word processor except that graphics are being manipulated instead of words. Students will be able to design and draw accurately and effortlessly focusing on the creative task, while leaving the erasing and redrawing chores to the computer. Concepts are taught using Auto CAD Lt, the same software system used by professionals in the industry.

**ADVANCED COMPUTER AIDED DESIGN - 0812
(ADVANCED CAD)****HALF YEAR - ½ CREDIT
GRADES 10 - 12**

Prerequisite: Computer Aided Design. This class will take the information and abilities you acquired in CAD and take them a step further. Students will create isometric drawings, graphs, maps, schematics, floor plans, elevations, 3D drawings and more! This class offers the novice and computer enthusiast new experiences in the computer field. Concepts are taught using Auto CAD Lt, the same software system used by professional in the industry.

COMPUTER ANIMATION AND MULTIMEDIA - 0825**HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Prerequisite: None. This class introduces students to creating models and animations using the software program 3D Max Studio, which is the same program used by professionals to create special effects in many major motion pictures today. The animations created will range from single object models and expand to full scene animation production. The students will be given specific objects to create and be encouraged to use their imaginations to make each animation more realistic. Throughout the course students will develop their eye as an animator, as well as the essential skills for creating animations in a 3D space perspective.

ADVANCED COMPUTER ANIMATION - 0815**HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Prerequisite: Computer Animation and Multimedia - 0825.

This course is for students who have taken Computer Animation and Multimedia and wish to continue their studies in the field of Computer Animation. It will further the students' understanding of the artistic and technical elements associated with creating three-dimensional computer-generated imagery. Along with the reinforcement of the materials covered in the introductory class, the student will gain greater understanding of the complete animation production pipeline. This advanced animation course will teach students the techniques used by professionals in the field of advanced 3D computer-generated imagery. It will emphasize modeling techniques using patches, meshes, sub-divisions surfaces, non-uniform rational splines, and polygonal tools. Included will be advanced techniques in character animation, dynamic scene design, particle dynamics, inverse kinematics, texturing, lighting and rendering.

DESIGN AND DRAWING - 0814**FULL YEAR - 1 CREDIT
GRADES 9 - 12**

(This course may be used to meet the one unit New York State Arts requirement for graduation.)

Prerequisite: None. This hands-on course will introduce the students to the design process. The students will acquire technical drawing skills while applying creative problem solving to a variety of different design challenges. Activities will include: Bridge Construction, Gravity Vehicle, Hurricane House, Logo Design, Model House, Towers and Trebuchet.

MANUFACTURING DRAFTING - 0816**FULL YEAR - 1 CREDIT
GRADES 10 - 12**

Prerequisite: Drawing and Design. This course will build on the knowledge and skills gained in Drawing and Design to solve more advanced problems in a greater variety of drafting areas. Students will learn many of the fundamental principles of Manufacturing Drafting through drawings such as Isometric, Assembly, Perspective, and Exploded views. Fasteners, Threads, Section Views and Pattern Development will also be presented. The further use of drafting equipment and aids will be used to increase speed and enhance accuracy. This course is designed to provide students with hands-on experience and is taught in a lab-centered environment.

MATERIALS PROCESSING - 0826**HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Prerequisite: None. This course explores the ways that humans change materials, for example trees into wood products. These changes have an effect on our way of life. You will work with hand tools and power equipment while using a variety of materials like wood, plastics, metal or ceramics to build teacher selected and student designed projects. These projects will reinforce the effect that materials around us have on our present life style. This course is designed to provide students with hands-on experience, and is taught in a lab-centered environment.

PRODUCTION SYSTEMS - 0821**HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Pre-requisite: None. One of the most important activities in a society is the making of useful products and buildings. In Production Systems you will study manufacturing and construction technology. Working individually or in a small group, you will organize and operate a manufacturing company to produce a product. In addition, you will learn the proper procedures and techniques necessary to be able to construct a building to scale. This course is designed to provide students with hands-on experience and is taught in a lab-centered environment.

TECHNO-PHYSICS - 0412**FULL YEAR - 2 CREDITS
GRADES 11 - 12**

Prerequisite: Successful completion of Math Test B or Algebra 2/Trigonometry, or teacher recommendation, and two years of Regents Science. This course offers an alternative to the standard Regents Physics curriculum. It will provide students with the opportunity to learn about math, science, and technology in an integrated environment. The course requires two periods per day, and successful completion will yield a credit in Regents Physics and a credit in Technology. Throughout the course, the student will investigate the principles of physics through technology. They will build and test devices; measure, monitor and control processes; and build and use models and simulations. Students will have access to current computer and automated informational retrieval services. All students will be prepared for, and expected to take, the Regents examination in Physics at the end of the school year.

TRANSPORTATION SYSTEMS-POWER MECHANICS - 0824**HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Prerequisite: None. In this course you will learn about the basics of land, marine, and aerospace engines and about the Transportation Systems involved in each of the three areas. You will disassemble and rebuild a small gasoline engine in order to gain an understanding of engine operation. Engine maintenance, repair and tune up will be performed on your engine. Proper and safe use of related tools and equipment will be stressed.

Some topics in this course include:

- | | | | |
|----------------------------------|-----------------|----------------------|-----------------------|
| -Engine Operation 2 & 4 Cycle | -Steam Engines | -Diesel Engines | -Principles of Flight |
| -Ignition Systems | -Rotary Engines | -Aerospace Engines | -Railroad Systems |
| -Troubleshooting Engine Problems | -Marine Engines | -Types of Boat Hulls | -Consumer Information |

MEDIA PRODUCTION TECHNOLOGY – 0807**HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Pre-requisite: None. Media production is a hands-on, active learning class that focuses on the design and production of a variety of media formats. The course is designed to provide students with the basic skills necessary to plan, produce, record and edit presentations; including video productions, A/V presentations, and web pages. You will have the opportunity to work independently and in small groups.

Activities included:

- Digital Video Production
- Video Special Effects
- Web Page Animation
- Digital Photography
- Multimedia Presentations

PRINCIPLES OF ENGINEERING – 0817**FULL YEAR - 1 CREDIT
GRADES 10 - 12****(This course may be used as a third unit of Math or Science)**

Prerequisite: Pass Integrated Algebra Regents Exam. What is an engineer? What do they do? How does an engineer solve design problems? Would I like to be an engineer? These questions are important to a student considering engineering as a possible career. Principles of Engineering is an activities oriented course designed to provide students with the answers to those questions and more.

Students will be introduced to the principles, skills, techniques, and tools used by those in the field of engineering. Principles of Engineering is designed to give students a basic understanding of physics, and help them apply it to real-life situations.

Throughout the course, the student will investigate the principles of engineering. They will build, evaluate, measure, monitor, and use models to simulate real-life engineering problems. Principles of Engineering will also allow students to integrate and apply math and science with technology to solve real world problems. Activities to include: robotics, mouse-trap cars, pneumatic arms, designs using Solid Works, and Auto Cad.

ADVANCED TRANSPORTATION SYSTEMS**HALF YEAR - ½ CREDIT
GRADES 9 - 12**

Prerequisite: Transportation Systems. This course covers advanced topics relating to Land, marine and air transportation systems, with a major emphasis on the automobile. Systems such as power, cooling, suspension, braking, electrical, filtration and drive train will be covered. Hands on basic maintenance work will be performed on real automobiles in class. Students will be allowed to bring in their own cars.

Some topics in this course include:

- Air filtration systems
- Braking Systems
- Automobile tune-up
- Engine Diagnostics
- Career and consumer information
- Car lift safety and use
- Pneumatic tools

WILLIAM FLOYD INTERSCHOLASTIC ATHLETICS

FALL SPORTS

Varsity Football
J V Football
Varsity Field Hockey
J V Field Hockey
Varsity Girls Soccer
J V Girls Soccer
Varsity Boys Soccer
J V Boys Soccer
Varsity Girls Swimming
Varsity Gymnastics
Varsity Boys Cross Country
Varsity Girls Cross Country
Varsity Girls Tennis
J V Girls Tennis
Varsity Cheerleading
J V Cheerleading
Field Hockey

WINTER SPORTS

Varsity Girls Basketball
J V Girls Basketball
Varsity Boys Basketball
J V Boys Basketball
Varsity Wrestling
J V Wrestling
Varsity Bowling
Varsity Girls Track
Varsity Boys Track
Varsity Cheerleading
J V Cheerleading

SPRING SPORTS

Varsity Baseball
J V Baseball
Varsity Lacrosse
J V Lacrosse
Varsity Softball
J V Softball
Varsity Girls Spring Track
Varsity Boys Spring Track
Varsity Boys Tennis
Varsity Boys Golf