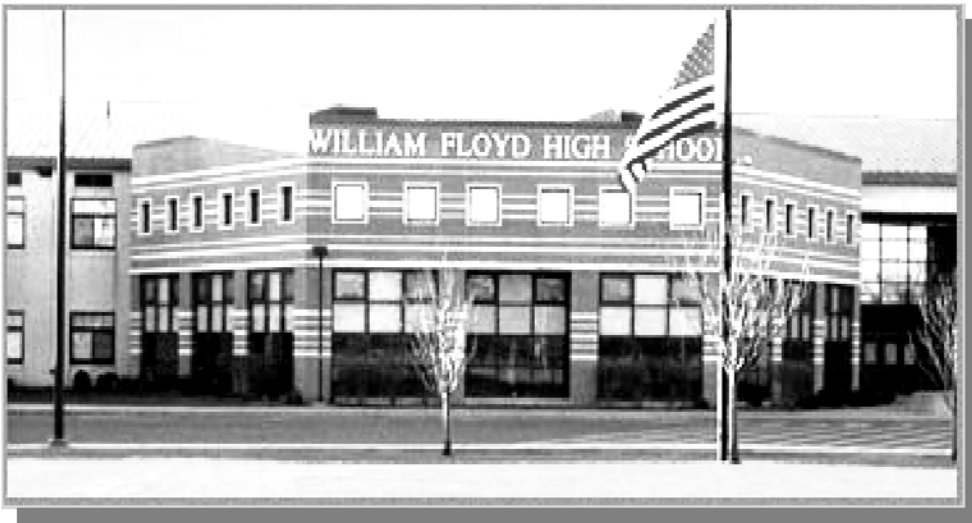


# COURSE CATALOG



**William Floyd High School**

**2011 – 2012**

**BOARD OF EDUCATION**

**Robert Vecchio, President**  
**Jeananne Dawson, Vice President**  
**Joseph Barone**  
**Viola English**  
**Thomas A. Gross**  
**Anthony Speruta**  
**Robert Taiani**

**DISTRICT ADMINISTRATORS**

Paul Casciano, Ed.D.....Superintendent  
Gordon Brosdal..... Ass't. Superintendent for Secondary Education  
Kevin Coster..... Ass't. Superintendent for Elementary Education  
Anne Marie Caliendo.....Assistant Superintendent of Business  
Janet Gilmor..... Assistant Superintendent of Human Resources  
Phyllis Palma.....Assistant to the Superintendent  
Robert M. Hagan..... Ass't. Secondary Administrator for Instruction and  
Administration

**DIRECTORS / COORDINATORS**

Special Education	Malasia Walker
Athletics	Mark Mensch
Counseling Services	Robert M. Hagan

**DEPARTMENT CHAIRPERSONS**

English	Philip Scotto
Mathematics	Michele Sherry Batista
Social Studies	Craig Clasen
LOTE	Marianne Coogan
Science	Lisa Lackemann
Business	Karen Poidomani
Special Ed.	Shanna Marté

**BUILDING ADMINISTRATORS**

Robert Feeney .....High School Principal  
Ed Plaia .....Associate Principal  
Albert Peterson .....Associate Principal  
Dharminder Sohal .....Associate Principal  
Dan Katchihtes .....Associate Principal  
Lisa Pisano .....Associate Principal  
Bryan Lake .....Associate Principal  
John DeBenedetto .....Alternative High School 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 2011-2012 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,

Robert Feeney  
Principal



A NATIONAL COMMITMENT TO EXCELLENCE IN EDUCATION

## **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.***

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## 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.**

**Assistant Secondary Administrator for Instruction and Administration**  
Robert M. Hagan

### High School Counselors – Grades 9 – 12

Nancy DeVito  
Angela Funaro  
Sheryl Gochman

Laurie Maro  
Kim Rodriguez  
Dana Nevala

Ashley Siebert  
Fran Terranova  
Nancy Winkler

### Middle School Counselors – Grades 6 – 8

**PACA**  
Stephanie Nardone  
Paul Longo  
Toni-Rose Taddeo

**WFMS**  
Gene Gersbeck  
Laurie O'Donoghue  
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 intellects 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 12<sup>th</sup> 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:

<b>Advanced Placement</b>	<b>1.10</b>	<b>Honors</b>	<b>1.05</b>
<b>Accelerated</b>	<b>1.05</b>	<b>Regents</b>	<b>1.00</b>

## 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
<b>TOTAL CREDITS</b>	<b>22</b>

### **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

### 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
<b>TOTAL CREDITS</b>	<b>22</b>

### **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 Regents \*

**AND**

#### **For Cohort 2006—2008:**

Math A Regents and Math B Regents *or*:  
 Math A and Algebra 2/Trigonometry *or*:  
 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**

<b>Entering Freshmen (cohort year)</b>	<b>Local Diploma</b>	<b>Regents Diploma</b>	<b>Regents Diploma with Advanced Designation</b>
<b>2006</b>	Score 65 or above on 3 required Regents Exams and score 55 or above on 2 Regents Exams.	Score 65 or above on 5 Required Regents Exams	Score 65 or above on 8 required Regents Exams (or 7*)
<b>2007</b>	Score 65 or above on 4 required Regents Exams and score 55 or above on 1 Regents Exams.	Score 65 or above on 5 required Regents Exams	Score 65 or above on 8 - 9 required Regents Exams (or 7*)
<b>2008 and thereafter</b>	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  
Dance I  
Introduction to Medicine

### Farmingdale College

College Accounting  
Business Law  
E-Commerce  
College Marketing  
Computer Applications

### Suffolk County Community College

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

### St. John's University

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

## ADVANCED PLACEMENT COURSES:

Advanced Art  
Biology  
Calculus (AB)  
Chemistry

Economics  
English Language and Composition  
English Literature and Composition  
Environmental Science  
World History  
Music Theory  
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 Regents 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](http://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](http://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 (ASVB)**

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

**B.O.C.E.S.**  
**Occupational and Technical Education Courses**

The William Floyd School District has joined with other local districts to provide occupational training in over twenty occupational and technical specialties to qualified **juniors and seniors**. These courses provide students with the practical job skills and experiences needed for entry-level positions or technical college entrance.

Students who enroll in a technical program must be prepared to make a commitment of at least one year. Individual courses are either one or two years in length. Successful completion of a year course entitles a student to four (4) units of credit.

Completion of a two-year BOCES Program may qualify a student for a New York State Occupational Certificate. Successful students must also satisfy time and training requirements needed to take state licensing examinations.

Interested 10th and 11th grade students should see their counselors for details. All applications will be screened by counselors to determine eligibility for the program requested. To enroll at BOCES, students must satisfy all course and credit requirements, be in line to graduate on time, and **have a good attendance record**.

Career Portfolio/Career and Money Management to Occupations is required for all students pursuing an Advanced Regents Diploma who wish to substitute a vocational sequence in lieu of the three-year World Language Requirement. Students must have successfully completed 11 academic credits to include English 10 and Global 2. In addition, a student must have no more than eighteen (18) absences from the year preceding BOCES enrollment.

**B.O.C.E.S. Technical Program Offerings**

\*Center Locations      BTC – Brookhaven Technical Center  
                                  MTC – Milliken Technical Center  
                                  SAC – Suffolk Aviation Center at Brookhaven Calabro Airport

**Animal Science - One or two year program**

**1<sup>st</sup> year – 2005 AM, 3005 PM**  
**2<sup>nd</sup> year – 2014 AM, 3014 PM**

Animal Science is designed to prepare students who are pursuing animal related careers and can be used as a college preparatory course for those interested in furthering their education in applied sciences. \*Center – BTC (Estimated Cost \$80-\$90)

**Art & Design & Visual Communications – One or two year program**

**1<sup>st</sup> year – 2002 AM, 3002 PM**  
**2<sup>nd</sup> year – 2003 AM, 3003 PM**

This program deals with the creations and design of visual images through traditional and digital media. Students will learn and develop employability skills while creating a portfolio that exhibits their mastery in art and design, visual communication and the technology and software needed to help them succeed in their chosen career field or for placement in college and art schools. \*Center - BTC (Estimated Cost \$30)

**Audio Production**

**1<sup>st</sup> year - 2063 AM, 3063 PM**

**One or two year program**

**2<sup>nd</sup> year - 2064 AM, 3064 PM**

The course is designed to give the student exposure to basic production techniques. This will be inclusive of live sound re-enforcement, multi-track audio recording, as well as electronic instrumentation operation and composition basics. \*Center - MTC (Estimated cost \$50-\$100 for various media)

**Automotive After-Market Accessory Installation**

**1<sup>st</sup> year - 2052 AM, 3052 PM**

**2<sup>nd</sup> year - 2072 AM, 3072 PM**

The curriculum is designed to give the student hands-on experience with the latest audio equipment and auto accessory installation. \*Center - MTC

**Auto Body Repair & Refinishing**

**1<sup>st</sup> year - 2006 AM, 3006 PM**

**One or two year program**

**2<sup>nd</sup> year - 2007 AM, 3007 PM**

Students are required to dismantle and reassemble damaged automobile components: straighten metal parts, car frames, repair dents, use filler compounds, grind, sand and prepare the car for the refinishing. (Estimated cost: \$185). \*Center - MTC

**Automotive Technology**

**1<sup>st</sup> year - 2008 AM, 3008 PM**

**Two year program**

**2<sup>nd</sup> year - 2009 AM, 3009 PM**

This two-year program meets requirements for Automotive Service Excellence (ASE) certification and is certified by ASE. This National Automotive Technicians Education Foundation (NATEF) program provides students with basic skills to repair and service automobiles. (Estimated cost: \$160 - \$270). \*Center - MTC

**Aviation/Airframe Mechanics (F.A.A.)**

**1<sup>st</sup> year - 2012 AM, 301 2 PM**

**Two year program**

**2<sup>nd</sup> year - 2013 AM, 3013 PM**

**and two three-week summer segments**

Students learn the technical skills required to become an Airframe technician. (Estimated cost: \$175). \*Center - SAC

**Aviation/Professional Pilot Training**

**1<sup>st</sup> year - 2010 AM, 3012 PM**

**One year program with second year option**

**2<sup>nd</sup> year - 2011AM, 3011 PM**

In the first year students will study aerodynamics, navigation, meteorology, and air traffic control procedures. They will operate aircraft simulators as well as actual aircrafts. All students will take the FAA Private Pilot's Written Exam. Students who demonstrate the ability and have a strong desire to become aviation professionals will be offered a second year program. The second year students will be given the opportunity to earn a Private Pilot's License and work with businesses and local industries in an aviation-related capacity.

(Estimated cost: 1st year - \$12, 2nd year - \$ 270-see Boces catalog).

**Students must complete two 3- week summer sessions in order to obtain the 1150 hour requirement for FAA Certification. Summer tuition is at the student's expense. One 3-week summer session is offered each year.** \*Center - SAC

**Barbering**

**1<sup>st</sup> year - 2079 AM, 3079 PM**

**One year program**

This program emphasizes specialized training in safety, sanitation, shaving, reception and sales, and will create opportunities for small business ownership. Students who successfully complete this 500 hour course will be eligible to sit for the New York State Licensing Exam. **Students must be at least 17 years of age to take the NYS Barbering Licensing Examination.** (Estimated cost for one year - \$575). \*Center - MTC

**Carpentry/Residential Construction**

**1<sup>st</sup> year - 2018 AM, 3018 PM**

**One or two year program**

**2<sup>nd</sup> year - 2019 AM, 3019 PM**

Students will actively participate in constructing and/or renovating a full size, 3-bedroom ranch on site. The instruction will include information regarding modern building codes, and the latest methods and materials used in the renovation and alteration of existing residential structures. (Estimated cost: \$250) \*Center - BTC

**Certified Personal Trainer**

**1<sup>st</sup> year - 2065 AM, 3065 PM**

This physical course includes anatomy, kinesiology, injury prevention, supplementation, nutrition, and all aspects of weight and strength training. This course is specifically designed to bridge the gap between clinical exercise related course work and the practical application of sound health and fitness programming. Students will have an opportunity to earn a nationally recognized certification from the **International Sports Science Association** upon successful completion of the course.

\*Center - MTC

**Clinical Medical Assisting**

**2034 AM, 3034 PM**

**One year program**

This course is designed to provide basic training in the areas of medical terminology, clinical medical assisting, EKG and phlebotomy. Enables students to become nationally certified by the **American Association of Allied Health Professionals**. Estimated cost: \$180) Center - MTC

**Computer Networking/CISCO Academy**

**1<sup>st</sup> year - 2070 AM, 3070 PM**

**2<sup>nd</sup> year - 2073 AM, 3073 PM**

This course consists of four modules. It starts with an introduction to Internetworking Technology, followed by presentation of concepts and commands required to configure routers and switches in a small to medium multi-protocol network. You will learn to apply Cisco IOS software commands to start up and configure a newly installed router and switch. This will enable you to perform all basic configuration procedures to build a multi-router, multi-group network that uses LAN and WAN interfaces for the most commonly used routing and routed protocols. Upon completion of all four modules, the student will know how to design, build, configure and maintain small to medium-size multi-protocol Internet works. (Estimated Cost: \$125) \*Center - MTC

**Computer Service Technology**

**2017 AM, 3017 PM**

**One year program**

Students will learn how to use test equipment and software to troubleshoot and correct common personal computer problems. Students will receive the necessary instruction to prepare for the A+ certification. (Workbook \$75) \*Center - MTC

**Computer Technology**

**1<sup>st</sup> year - 2056 AM, 3056 PM**

**One or two year program**

**2<sup>nd</sup> year - 2088 AM, 3088 PM**

This course will integrate business computer application skills including keyboarding, communications, graphics, business math, word processing, spreadsheets and spreadsheet analysis, database management, website design, networking basics and internet concepts. Competency-based, the curriculum integrates verbal and mathematical skills essential for business employment. \*Center - MTC

**Cosmetology****1<sup>st</sup> year - 2020 AM, 3020 PM****Two year program****2<sup>nd</sup> year - 2021 AM, 3021 PM**

This course provides instruction along with hands-on experience in hair shaping; styling; chemical services such as coloring, permanent waving and chemical relaxing; scalp treatments; facials; makeup; and nail care including artificial nails. This course fulfills the 1,000-hour requirement necessary to qualify for the New York State Licensing Examination.

(Estimated cost: 1st year - \$400+, 2nd year - \$275+) \* Centers – MTC and BTC

**Culinary Arts****1<sup>st</sup> year - 2022 AM, 3022 PM****Two year program****2<sup>nd</sup> year - 2023 AM, 3023 PM**

Students learn food preparation, baking and pastry through hands-on experience and applied skills. Students learn food safety, sanitation codes, purchasing and presentation.

(Estimated Cost: \$100 and approved footwear) \* Centers – MTC and BTC

**Dental Assisting****2024 AM, 3024 PM****One year program**

As a Dental Assisting student you will learn how to work chair-side with the dentist, prepare dental materials, perform basic business procedures, prepare client's data (ex: processing insurance forms), practical experience in radiology and four handed dentistry. Experience is gained during private practice affiliation. (Estimated cost: \$100). \*Center - BTC

**Drafting/Computer Aided & Manual****1<sup>st</sup> year - 2025 AM, 3025 PM****One or two year program****2<sup>nd</sup> year - 2026 AM, 3026 PM**

This is one or two year course available to grades 11 and 12. The latest computer aided drafting (CAD) equipment utilized is Auto CAD Release 114. Areas covered include mechanical and architectural model building and hard copy production. \*Center - BTC

**Fashion Merchandising****1<sup>st</sup> year – 2027 AM, 3027 PM****One or two year program****2nd year – 2028 AM, 3028 PM**

Students develop skills and competencies related to the various marketing functions and tasks required in the retail, wholesale, manufacturing of clothing and other articles for personal wear and adornment. \*Center – BTC (Estimated cost: \$150).

**Floral Art & Design****One or two year program**

This program is designed to provide in-depth comprehensive training in the floral industry in order to achieve employment. Floral Art & Design provides a basic foundation of knowledge about fresh, silk and dried flowers and the practical skills to create attractive floral design. \*Center - BTC

**Heating, Ventilation & Air Conditioning (HVAC)****2090 AM****One or two year program****3090 PM**

Basic instruction includes the installation, service and repair of commercial refrigeration, air conditioning, cooling and heat pump systems as well as thermodynamics, air conditioning, refrigeration applications, and electrical theory and service. Students are prepared and take the EPA Certification Test for the handling of refrigerants. (Estimated cost: \$300)

\*Center - MTC

**Law Enforcement -**

**1<sup>st</sup> year – 2029 AM, 3029 PM**

**One or two year program**

**2<sup>nd</sup> year – 2030 AM, 3030 PM**

This is a one year program for students interested in criminal justice, law enforcement, public safety and other related legal careers. Classroom lectures will be frequently supplemented with field shadowing experiences in cooperation with the Suffolk County Police Department and with the Sheriffs Department. \*Center - MTC

**Motorcycle/Marine Service Technology -**

**1<sup>st</sup> year - 2032 AM, 3032 PM**

**One or two year program**

**2<sup>nd</sup> year - 2033 AM, 3033 PM**

Students obtain basic knowledge and skills to enter the motorcycle or marine field. Instruction will include the repair and service of domestic and imported motorcycles, mopeds, ATV's and marine engines. (Estimated cost: \$25). \*Center - MTC

**Nurse Assisting**

**2036 AM, 3036 PM**

**One year program**

This course is designed to prepare the student to function as a Nurse Assistant. Basic skills include procedures used in the care of patients such as: bathing, positioning, moving, transferring and monitoring vital signs. This course is an entry-level program in the field of Nursing. The course prepares students for the New York State Nurse Aide Certification Exam. (Estimated cost: \$200, in addition to a Certificate Test Fee for \$115 and a physical examination). \* Center - BTC

**Paralegal Studies – One year program**

**2081 AM, 3081 PM**

**One year program**

The paralegal studies program focuses on the legal concepts, procedures and skills used in a wide variety of legal environments. The curriculum emphasizes important skills, including legal analysis, communication, legal research, computer competence, legal drafting, investigation, organization and specialized legal skills. \*Center - MTC

**Pharmacy Technician**

**2068 AM, 3068 PM**

**One year program - Seniors only**

**Pre-requisite: All applicants must take and pass the Pharmacy Pre-Admissions Exam in the spring prior to entrance. (Testing Fee: \$40)**

Pharmacy technicians assist licensed pharmacists by completing tasks that do not require the professional judgment of a pharmacist, and can be reviewed by a licensed pharmacist to ensure accuracy. The pharmacy technician assists pharmacists in providing effective, appropriate, and safe pharmacy services. (Cost for uniform and workbook). \* Center - BTC

**Plumbing & Heating**

**1<sup>st</sup> year - 2037 AM, 3037 PM**

**One or two year program**

**2<sup>nd</sup> year - 2038 AM, 3038 PM**

The Plumbing and Heating program instructs students in the installation, service and repair of domestic sanitation systems and domestic heating units. The two year program includes one year of Plumbing and the other in Heating. (Estimated cost: \$275) \*Center - BTC

**Practical Nursing**  
**17 Month program**

**2039 AM Junior Year Testing**  
**3039 PM**

**Prerequisite: All applicants must take and pass the Nursing Pre-Admissions Exam in the spring prior to entrance. (Testing Fee: 40)**

This is a 17-month program that begins in the senior year. In the first year of the program the student will learn the basic nursing skills necessary to care for patients based on the principal of the biological, physical and social sciences and includes a 100-hour clinical experience in affiliate hospitals. The second phase of the program (Sept. - March), following high school graduation, is a full-time clinical experience. (Estimated cost: \$370 as well as a physical and dental exam) Tuition for Practical Nursing II will be the responsibility of the student and/or parent. \*Center - BTC

**Professional Photography/Digital Photo**  
**One or two year program**

**1<sup>st</sup> year - 2040 AM, 3040 PM**  
**2<sup>nd</sup> year - 2041 AM, 3041 PM**

**Prerequisite: Must have taken Photography 1 & 2 at William Floyd.** In the first year, students will concentrate on small, medium, and 4 x 5 view cameras with assignments, which include portraiture, industrial, documentary, advertising and candid. Second-year students will work with the above equipment in addition to digital photography and Photoshop, background scene projection and custom color lab equipment. Students are expected to prepare personal portfolios of the work for employment interviews or college portfolio review. (Estimated cost: \$30) \*Center - BTC

**Trade Electricity**  
**Two year program**

**1<sup>st</sup> year - 2046 AM, 3046 PM (Milliken Tech. - PM only)**  
**2<sup>nd</sup> year - 2047AM, 3047 PM (Milliken Tech. - PM only)**

This course is divided into a year of Residential and a year of Commercial electricity. Students learn to install, troubleshoot and repair electrical wiring systems, motors, and generators; and control equipment used in homes, offices, stores and factories. (Estimated cost: \$250+). \*Center – BTC and MTC

**TV Production**  
**One or two year Program**

**1<sup>st</sup> year - 2044 AM, 3044 PM**  
**2<sup>nd</sup> year - 2045 AM, 3045 PM**

This course involves all phases of television production including planning, shooting, and editing. You will learn techniques in studio production and electronic journalism. In addition to working in the studio, you will use professional field cameras and sound and lighting equipment to create your own new stories, public service announcements, and short documentaries. \*Center - BTC

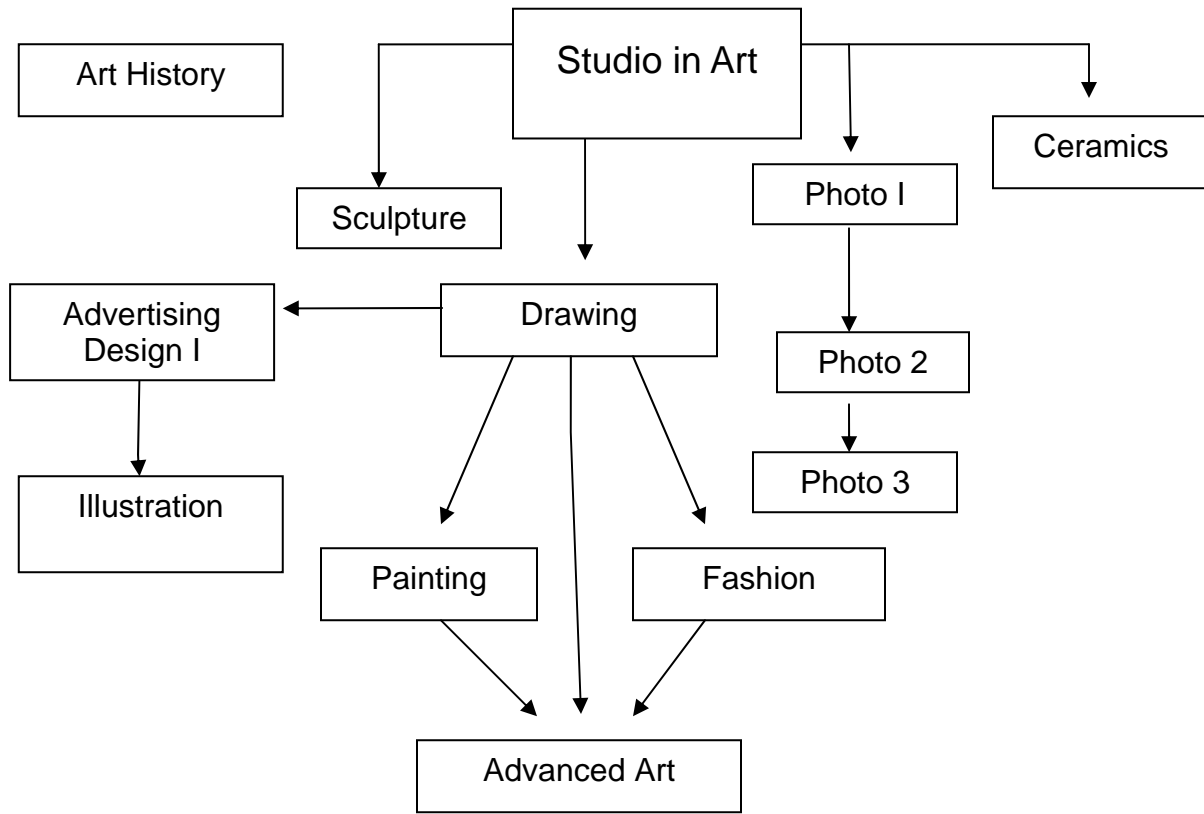
**Welding /Metal Fabrication**  
**One or two year program**

**Welding 1 – 2060 AM, 3060 PM**  
**Welding 2 – 2061 AM, 3061 PM**

This course involves Electric ARC, TIG, MIG and Plasma ARC welding techniques provided for entry-level skills. These are developed in areas from heavy ferrous material to highly specialized light metals common to Long Island industry. Welding according to specifications and blueprints is emphasized. \*Center - MTC

***PLEASE NOTE: All prices cited above are subject to change.***

# 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.

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

**Prerequisite: Studio in Art.** Photography 1 is an introductory course open to all students. Photography will be approached as a technical skill and introduced as an art form. Course content will include the nature and function of photography and the various technical processes involved. Areas of study will include: the camera, film, lighting techniques, composition, developing film, printing and enlarging. Enough materials will be supplied for all students to successfully complete the course. Students who choose to do extra projects or who go beyond the normal allotment of material may be required to purchase additional supplies. Students will need access to a 35mm camera.

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

**Prerequisite: Photography 1.** Photography 2 expands upon the methods and techniques covered in Photography 1. Emphasis in this course is on experimenting with various advanced techniques designed to further enhance the student's means of self-expression. Course content will include advanced lighting techniques, color theory and portraiture. Enough materials will be supplied for all students to successfully complete the course. Students who choose to do extra projects or who go beyond the normal allotment of material may be required to purchase additional supplies. Students should have a 35mm SLR camera.

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

**Prerequisite: Photography 2.** Photography 3 is a course designed for an individual who is considering a possible career in photography. The student will learn advanced studio and lighting techniques, as well as professional darkroom processes. The history of photography and the many careers possibilities will be explored. Areas of study will include: texture and form, light tables, translucent subjects, double exposures, abstract compositions and journalistic portraits. Students who choose to do extra projects or who go beyond the normal allotment of material may be required to purchase additional supplies. Students must have a SLR (single lens reflex) camera for this 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 Statistics (1)
- Advanced Computer Applications (1/2)
- Business English (1)
- Business Law (1)
- Business Ownership & Management (1)
- The Business of Music (1/2)
- College Prep (1/2)
- College Marketing (1)
- Computer Applications (1/2)
- Video Game Design (1/2)
- Virtual Enterprise (1)
- Entertainment Marketing (1)
- Fashion Marketing (1)
- Math Applications for Business & Personal Finance (1)
- Microsoft Office (1)
- Personal Keyboarding (1/2)
- Sports Marketing (1)
- Web Design (1/2)

#### **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****HALF YEAR – ½ CREDIT****(May also run alternate days for a full year) - 0602****GRADES 9-12**

**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).**

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

**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).**

**ACCOUNTING - 0603****FULL YEAR – 1 CREDIT  
GRADES 10 – 12**

**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!**

**COLLEGE ACCOUNTING - 0613****FULL YEAR – 1 CREDIT  
GRADES 11 - 12**

**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.**

**BUSINESS STATISTICS - 0606****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: Successful completion of Integrated Algebra, Geometry and Algebra II Trigonometry (all Regents Level) with an overall average of 80 and above.**

Are you interested in pursuing a career in business/economics? Statistical methods are used in business research, analysis and decision making. The focus of this course is on the practical use of data in business/economic decision environment, especially in an environment of risk and uncertainty. The students who enroll in this course need a background in algebra. In addition to learning the principles of statistics, students will apply what they have learned using business case studies and Microsoft Excel.

**BUSINESS ENGLISH—0607****FULL YEAR—1 CREDIT  
GRADE 12**

**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.**

**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. Students will gain all the tools necessary to become the next Bill Gates!

**COLLEGE PREP - 0617****(May also run alternate days for a full year) - 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!**

**COLLEGE MARKETING - 0633****FULL YEAR – 1 CREDIT  
GRADES 11 – 12**

**EARN COLLEGE CREDIT!** College Marketing 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 most colleges and universities in the United States.

**Prerequisite: None.** Go forward on your journey in understanding the marketing principles in this college level class. Students will understand and apply marketing concepts as well as develop their managerial and entrepreneurial skills. Key elements of the marketing mix (product planning, pricing, placement and promotion) receive special emphasis. Students will use the marketing mix to complete hands-on activities and projects such as designing your own perfume, creating new travel destinations and redesigning products. Other related topics such as identifying target markets, studying consumer behavior, and career exploration will be also discovered. Students will gain a real-world perspective on the impact marketing has on our daily lives

**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.

**ADV. COMPUTER APPLICATIONS—0612****HALF YEAR – ½ CREDIT  
GRADES 10—12**

**Prerequisite: Computer Applications or Passing a Proficiency Exam.** Want to be MOS certified? A Microsoft Office Specialist (MOS) is an individual who has certified his/her skills in one or more of the Microsoft Office/Desktop Applications. This certification could be a valuable asset in any job search or career advancement. Upon completion of this course, students should qualify to take the MOS exam in Word, Excel, PowerPoint or Access.

**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.

**MICROSOFT OFFICE – 0618****FULL YEAR – 1 CREDIT  
GRADES 9 – 12**

**Prerequisite: None.** This class is the KEY for success in your future! You will gain the edge on today's computer world with the valuable skill of TOUCH TYPING. Microsoft Word will be introduced and used to format letters, memorandums, reports, mail merges and tables. In addition, Microsoft Word and Publisher will be used to create desktop publishing projects including announcements, flyers and newsletters. Microsoft Excel will also be introduced and used to prepare spreadsheets, charts and graphs. **Students who are taking or have taken this class cannot enroll in Personal Keyboarding.**

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

**Prerequisite: None.** Get hands-on experience with real-life math problems! 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****HALF YEAR – ½ CREDIT  
GRADES 10 – 12****(May also run alternate days for a full year) - 0626**

**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 – ½ CREDIT**

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

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

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. Any student not maintaining an average of 90 at the end of the first quarter may be dropped from the honors class at the discretion of the teacher. This determination will be made on a case by case basis. 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: Pass English 8 Honors with at least an 85 (90 in a Regents-level class), recommendation of the teacher and meets 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 with at least a 90 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 Advance 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.

**Quarterly Requirements:**

**One full-length contemporary novel**

**One outside reading assignment**

**One 3-5 page critical essay on outside reading**

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

**Prerequisite: None.** This course satisfies the requirement for English 12 or may be taken as a 5<sup>th</sup> 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 5<sup>th</sup> 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. Technology will be incorporated into the public speaking requirement of the course through Power Point presentations.

**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 5<sup>th</sup> unit in English. Prerequisite: This course will use the traditional writing workshop 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 and the traditional writing workshop 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 survey of British Literature will also be included.

# **FAMILY AND CONSUMER SCIENCE**

**CHILD PSYCHOLOGY/PARENTING – 0703**

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

**Prerequisite: None.** “There was an old lady who lived in a shoe; she had so many children she didn’t know what to do.” Do you!?? Is there such a thing as the “Terrible Two’s” or the “Horrible Fours?” Students will learn the truth, according to a leading psychologist, not the myths, about children and what makes them so important and special. Students explore the intellectual, mental, social, emotional, and physical development of infants to preschooler’s; as well as birth defects. Emphasis will also be placed on external influences on children such as environment, child abuse, T.V., books, toys and games. Effective parenting techniques and positive approaches to discipline will also be introduced. See the world again through a child’s eyes. Observe preschool age children enrolled in our on-site preschool.

**INTRODUCTION TO TEACHING AND EDUCATION - 0701**

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

This course will introduce students to the field of education. Students will be engaged in Education theory, Lesson Plan Design, Test Design and Evaluation as well as research into the field of Teaching. Students will utilize technology as well as research in presenting lessons and units of student at both the Elementary and Secondary Level.

# **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 <sup>TH</sup> GRADE	10 <sup>TH</sup> GRADE	11 <sup>TH</sup> GRADE	12 <sup>TH</sup> GRADE
Spanish 1 or 2 <i>or</i> Italian 1 or 2	French 3 <i>or</i> Spanish 2 or 3 <i>or</i> Italian 2 or 3	French 3 or 4* <i>or</i> Spanish 3 or 4* <i>or</i> Italian 3 or 4*	French 4* or 5* <i>or</i> Spanish 4* or 5* <i>or</i> 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.

8<sup>th</sup> 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

### **FRENCH 3 (R) - 0503**

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

**Prerequisite: French 2.** Level 3 French 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 French newspapers, magazines, films, and video programs. All students are required to take a Regents examination at the end of this course.

### **FRENCH 4 - 0504**

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

**Prerequisite: French 3.** This course concentrates on the conversational aspects of the French 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 French will be combined with reading a survey of French literature. Authentic materials will be utilized to provide a better understanding of the French language and culture. This course also meets the requirements of St. John's University College Advantage Program, if the student is qualified.

### **FRENCH 5 ACCELERATED- 0505**

**FULL YEAR – 1 CREDIT  
GRADE 12**

**Prerequisite: French 4.** This course completes the Checkpoint C curriculum of the State Syllabus, while also meeting the requirements of 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.

### **ITALIAN 1 - 0511**

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

**Prerequisite: None.** 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.

### **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 (R) - 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 a Regents 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 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 while also meeting the requirements of 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.

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

**Prerequisite: None.** 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.

**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. All students are expected to take the Checkpoint A Examination at the end of the course.

**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 (R) - 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 a Regents 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 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.

**AMERICAN SIGN LANGUAGE 1 - 0556****FULL YEAR – 1 CREDIT  
GRADES 10 – 12**

**Prerequisite: None.** This course is for the student with no prior knowledge, or minimal skills and knowledge of American Sign Language. The primary goal of American Sign Language is the achievement of functional communication in the context of Deaf Culture. Receptive expressive and interactive skills will be emphasized as a foundation for effective communication. Each student will acquire knowledge, understanding and appreciation of the artistic, cultural and intellectual accomplishments of Deaf Culture. This understanding will enable students to develop a greater understanding and appreciation for American Sign Language and the Deaf Culture, as well as their own heritage. It will provide the special education student the ability to take a LOTE (Language Other Than English) course. **This course may be substituted for the New York State LOTE one-credit requirement with administrative approval.** Juniors and Seniors may take this course as a third language.

# MATH PROGRAM FLOW CHART

## COHORT 2010 AND BEYOND

Honors Program								
8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>				
Integrated Algebra Honors	→	Geometry Honors	→	Algebra 2/Trig. Honors	→	Pre-Calculus Honors	→	AP Calculus

## COHORT 2010 STUDENTS

8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>	
Integrated Algebra	Geometry	Algebra 2 Trigonometry	Pre-calculus	→	Calculus
			Advanced Algebra	→	Pre-calculus
	Non Regents Geometry	Algebra 2	Trigonometry	→	Advanced Algebra Pre-calculus
			Geometry	→	Algebra 2

## COHORT 2009 STUDENTS

8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>	
Integrated Algebra	Geometry	Algebra 2 Trigonometry	Pre-calculus/Honors	→	Calculus/AP
			Pre-calculus	→	Advanced Algebra
	Non-Regents Geometry	Non-Regents Algebra 2 Trigonometry	Algebra 2	→	Advanced Algebra
			Geometry	→	Algebra 2 Trigonometry
			Algebra 2	→	Elective

## COHORT 2008 STUDENTS ACCELERATED PROGRAM

8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>				
Integrated Algebra Accelerated	→	Geometry Accelerated	→	Algebra 2 Trig. Accel.	→	Pre-Calculus Accelerated	→	AP Calculus or Calculus

## MATHEMATICS

### **PRE-ALGEBRA – 0303**

**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 the students will go on to the Geometry course which will be introduced in the fall of 2008.

### **NON-REGENTS GEOMETRY – 0327**

**FULL YEAR – 1 CREDIT**

**Prerequisite: 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 the Geometry curriculum, students will then have the opportunity to enroll in a mathematics elective course.

### **GEOMETRY – 0326 or 0331**

**FULL YEAR – 1 CREDIT**

**Prerequisite: Integrated Algebra**

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 the Geometry curriculum, the students will go on to the Algebra II/ Trigonometry course which will be introduced in the fall of 2009.

### **GEOMETRY HONORS - 0322**

**FULL YEAR – 1 CREDIT**

**Prerequisite: Pass Integrated Algebra 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 the Geometry Honors curriculum, the students will go on to the Algebra II/Trigonometry Honors course which will be introduced in the fall of 2011.

### **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 Math B or Algebra 2/Trigonometry course and Regents. This course is a more rigorous and faster paced course than Math 12. 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.

**ALGEBRA 2 - 0308****FULL YEAR – 1 CREDIT**

**Prerequisite:** Passing 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 which will be introduced in the fall of 2012.

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

**Prerequisite:** Passing Integrated Algebra, Geometry, and Algebra 2

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 the Advanced Algebra course.

\*The first offering of this course will be September 2012

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

**Prerequisite:** Passing Integrated Algebra and Geometry.

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 onto either the Pre-Calculus course or the Math 12 course.

**ALGEBRA 2/TRIGONOMETRY ACCELERATED\_- 0330****FULL YEAR – 1 CREDIT  
GRADE 10**

**Prerequisite:** Passing Integrated Algebra Accelerated and Geometry Accelerated. 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 onto either the Pre-Calculus course or the Math 12 course.

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

**Prerequisite:** This course is offered to students who have passed the Algebra 2 Trigonometry Accelerated 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.

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

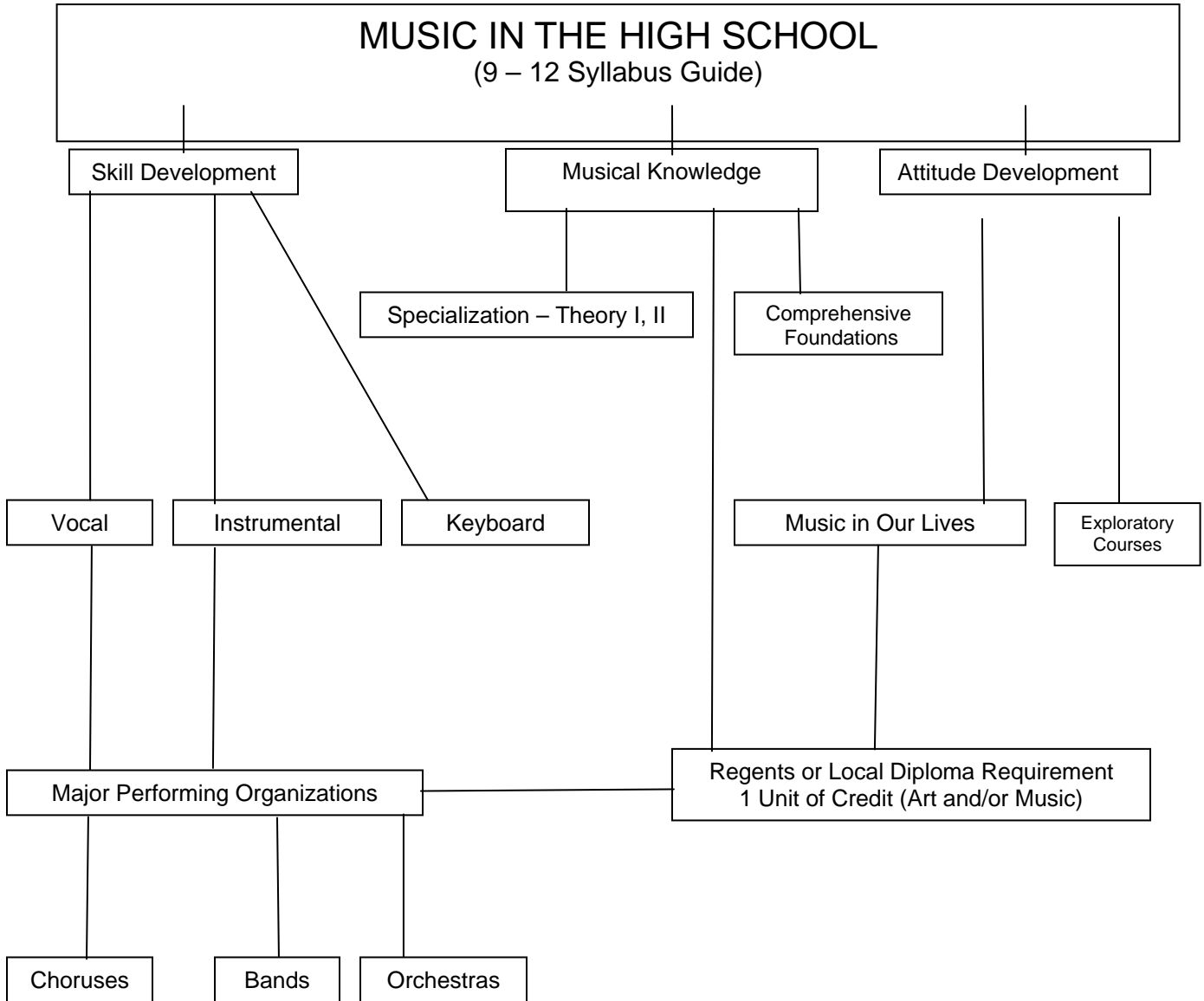
This course is designed to be a first year, college level course in Calculus. Course content includes: Cartesian Coordinates; Equations of Curves; Derivatives of a Function; Differentiation of Algebraic Functions; Ratios and differentials; Indefinite Integrals; Definite Integrals; Application of the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

**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.**

# MUSIC EDUCATION



# MUSIC

## **CONCERT 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.**

## **SYMPHONIC BAND - 1002**

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

**Prerequisite: Recommendation of instructor and/or student audition.** The Symphonic Band is the course for all wind instrument players and percussionists entering 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade. Students will learn rehearsal and performance techniques while studying level V 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 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.

## **WIND ENSEMBLE - 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 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> 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 9<sup>th</sup> and 10<sup>th</sup> 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 11<sup>th</sup> and 12<sup>th</sup> 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: None.** 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.

**AP MUSIC THEORY 3 - 1009****FULL YEAR – 1 CREDIT  
GRADES 10 – 12****Prerequisite: Successful completion of Music Theory 1 and 2 or permission of Instructor.**

Theory 3 expands upon the knowledge and materials taught in Theory 2. Students will focus on 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.** 9<sup>th</sup> and 10<sup>th</sup> 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.

**CHAMBER PLAYERS – 1018**  
**(Meets after school)**

**HALF YEAR – ½ CREDIT**  
**GRADES 9 – 10**

**Prerequisite: By audition only.** This select group performs challenging repertoire for performance at school and community functions. Students must play at NYSSMA Level IV or V.

**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.

**JAZZ BAND – 1022**  
**(Meets after school)**

**FULL YEAR – ½ CREDIT**  
**GRADES 9 – 12**

**Prerequisite: Student audition, membership in Band and recommendation of instructor.** The Jazz Lab Band is a select jazz group specializing in the proper performance and techniques required of a jazz musician. The Jazz Lab meets one evening a week for two hours

**SELECT CHAMBER ENSEMBLE – 1023**  
**(Meets after school)**

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

**Prerequisite: Student audition, membership in orchestra and the recommendation of instructor.** This select group performs challenging repertoire for performance at school and community functions. Students must play a level V or VI at NYSSMA. The weekly rehearsals take place after school. Functions for which our Chamber Orchestra performs include: winter and spring *lobby* concerts; the holiday faculty reception, National Honor Society Induction, LOTE National Honor Society Induction, Senior Awards Night and other school/community functions. This course is highly recommended for those string performers interested in developing advanced musical insight. One half-credit can be earned if attendance requirements are met.

**JAZZ CHOIR – 1024**  
**(Meets after school)**

**HALF YEAR – ½ CREDIT**  
**GRADES 9 – 12**

Jazz Choir is a select ensemble of 16-20 students that specializes in the performance of vocal jazz literature. Students are encouraged to develop their improvisational skills as well as their scat singing abilities. The group performs at various festivals and at many functions within the community. 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\*

## **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.

## **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	Table Tennis	Weight Training
Golf		

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

**\*By Special Permission Only**

**TRADITIONAL PHYSICAL EDUCATION –** **½ CREDIT**  
**GIRLS / ALT DAY - 1105** **GRADES 9 –12**  
**GIRLS / SEMESTER - 1112 (special permission)**

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

Football      Basketball      Spasketball      Softball      Volleyball      Badminton

**TRADITIONAL PHYSICAL ACTIVITIES AND FITNESS ACTIVITIES -** **½ CREDIT**  
**GIRLS - 1105C** **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

**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.

**TRADITIONAL PHYSICAL EDUCATION-BOYS**

**1/2 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 | Table Tennis                         | Weight Training  |
| Golf                   |                                      |                  |

**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)**

**1/2 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 | Spasketball | Softball | Volleyball | Badminton |
|----------|------------|-------------|----------|------------|-----------|

**TRADITIONAL PHYSICAL ACTIVITIES AND FITNESS ACTIVITIES-  
GIRLS - 1105C**

**1/2 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 |
|------|---------------|---------------|--------------------------|

**FITNESS ACTIVITIES ONLY - GIRLS - 1105F**

**1/2 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  
Core training

Flexibility  
Plyometrics

Step Aerobics  
Weight Training

## SCIENCE SEQUENCES

For Students in the 2008 Cohort and Previous

Each Course is One credit	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Honors</b>	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
<b>Advanced Regents</b>	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
<b>Regents *</b>	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 <sup>th</sup> Grade	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> 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 <sup>th</sup> Grade	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Honors</b>	Earth Science→	AP Chemistry→ (H) 10 periods	AP Biology→ 10 periods	AP Physics→ 10 periods	AP Environmental 10 periods
<b>Advanced Regents</b>	Living Environment Regents	Earth Science Regents	Chemistry Regents or Electives	Physics Regents or AP Electives or electives	Electives
<b>Regents</b>	LX1	Living Environment Regents	Earth Science Regents	Chemistry Regents or Electives	Electives

## SCIENCE

**EARTH SCIENCE – 0401 (9<sup>th</sup>)  
0402 (10 – 12<sup>th</sup>)**

**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 – 0403****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 (9<sup>th</sup>)  
0406 (10 – 12<sup>th</sup>)****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, relationship 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 – 0453****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. College credit through **Suffolk County Community 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 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. College credit through **Suffolk County Community College** may be available.

**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.

**PHYSICS HONORS - 0442****FULL YEAR – 1 CREDIT  
GRADES 11-12**

**Pre-Requisite: The successful completion of the AP Chemistry and AP Biology courses** This course will emphasize the concepts covered in the NYS Regents Syllabus for Physics with many additional concepts found in a college physics course. Students must possess strong mathematical skills. Calculus will be introduced and used where appropriate.

**TECHNO-PHYSICS - 0412****FULL YEAR - 2 CREDITS  
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 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 this course, which counts as 20% of their final average.

**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.

**SCIENCE RESEARCH SEMINAR - 0455****HALF YEAR – ½ CREDIT  
GRADES 10-12**

**Prerequisite: Approval of the Department Chairperson.**

This course will provide students with an opportunity to develop fundamental skills to conduct scientific research. Working in small groups and/or independently, students will select a project and then do required research and experimentation. Through affiliation with Brookhaven National Laboratory, students will attend appropriate science seminars. Students will enter recognized science competitions, with the possibility of continuing the research through the year.

## SOCIAL STUDIES SEQUENCES

Four Years of Social Studies is the Requirement for Graduation

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<p style="text-align: center;">Regents <b>Global History &amp; Geography I</b></p> <p style="text-align: center;">World History AP® Prep</p>	<p style="text-align: center;">Regents <b>Global History &amp; Geography II</b></p> <p style="text-align: center;">AP® World History</p>	<p style="text-align: center;">Regents <b>US History &amp; Government</b></p> <p style="text-align: center;">AP® U.S. History</p>	<p style="text-align: center;"><b>Economics</b> (1/2 Year) <b>and</b> <b>Participation in Government</b> (1/2 Year)</p> <p style="text-align: center;"><b>AP® US Gov't. &amp; Politics</b> (Full Year) <b>and/or</b> <b>AP® Economics</b> (Full Year)</p>
			<p style="text-align: center;">Electives: <b>Criminal Justice</b> (1/2 Year) <b>Psychology</b> (1/2 Year) <b>Public Service Internship</b> (1/2 Year)</p>

## 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® European 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 -0210****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.**

**AP® UNITED STATES GOVERNMENT AND POLITICS- 0208****FULL YEAR – 1 CREDIT  
GRADE 12**

**Prerequisite: Successful completion of AP® U.S. History or a U.S. History & Government with a 90 or better average and teacher recommendation.** This course will focus on a variety of topics, including the constitutional foundations of the American Government, the political culture of citizens, political parties, special interest groups and the mass media. The institutions of government, public policy, and citizens’ rights will also be studied. The course demands upon students are equivalent to an introductory political science course at the college level. **Students are required to take the Advanced Placement U.S. Government & Politics Exam administered in May.**

**AP® ECONOMICS - 0214****FULL YEAR – 1 CREDIT  
GRADE 12**

**Prerequisite: Successful completion of AP® U.S. History or a 90 or better average in U.S. History & Government and teacher recommendation.** This course gives students a thorough understanding of the principles of economics that apply to decisions made by both consumers and producers within the economic system. Emphasis is placed on the nature and function of product markets and the role of the government in overseeing the economy. Students will also become familiar with measures of economic growth and international economics, including the impact of scarcity on the interdependence of nations. The course demands upon students are equivalent to an introductory economics course at the college level. **Students are required to take the Advanced Placement Macroeconomics Exam administered in May.**

**PSYCHOLOGY – 0211****HALF YEAR – ½ CREDIT  
GRADE 12**

This elective course will present a thorough investigation of the study of human behavior with emphasis placed on the theories of personality and degrees of mental illness. Application is made to clinical problems as well as everyday life-stress situations. The course is implemented through class and small group instruction and individual and class projects.

**CRIMINAL JUSTICE – 0212****HALF YEAR – ½ CREDIT  
GRADE 12**

This elective course investigates the criminal justice process in the United States. Units of study include police work, the rights of the accused, the trial process, and the penal system. When possible, field trips to the Suffolk County Jail are arranged and guest speakers from law enforcement and the court system are invited to speak on special topics.

**PUBLIC SERVICE INTERNSHIP – 0213****HALF YEAR – ½ CREDIT  
GRADE 12**

This course is offered to seniors in conjunction with Suffolk County Community College (3 credit course) and will fulfill the Participation in Government as well. Seniors may choose to perform an internship in one of a variety of governmental agencies at the town, county, state, and federal levels. The Christopher VanDerlaske Tuition Scholarship is available to a deserving student who takes this course.

# **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 21<sup>st</sup> 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, you 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<br>Information | -Marine Engines | -Types of Boat Hulls | -Consumer             |

## **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
- Digital Photography
- Video Special Effects
- Multimedia Presentations
- Web Page Animation

## **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
- Engine Diagnostics
- Car lift safety and use
- Braking Systems
- Career and consumer information
- Pneumatic tools
- Automobile tune-up

# 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



## Renaissance



Renaissance is a partnership between business and education. Its mission is to help students build self-esteem, develop pride and achieve academic excellence. It is through this joint partnership that we will educate and convince all members of the school community that **“education is everybody’s business.”**

The first Renaissance Education Conference was held in April 1988 at Conway High School in South Carolina, with 25 school administrators representing 21 high schools in attendance. The name “Renaissance” was chosen because the word means rebirth, or a renewal of vigor, freshness, and productivity. The definition and historical reference come alive in the Renaissance Education Foundation, with students rededicating themselves to academic achievement, and challenging themselves to soar to new intellectual heights. Since 1988, Renaissance has conducted hundreds of conferences across the country. There are thousands of educators involved and Renaissance schools in all of the fifty states.

The embryonic stages of Renaissance at William Floyd High School began in the spring of 1992 when an administrator and teacher attended a conference in New York City. The conference really drove home the concept that our superior academic students have not always received the recognition worthy of their accomplishments; others may not be recognized for significant improvements in grades or attendance. Therefore, what Renaissance hoped to accomplish was to provide meaningful incentives for students who work hard to achieve academic excellence or who work hard to improve on what they have accomplished in the past.

At William Floyd High School the students have the opportunity to achieve purchasing advantages, depending on their grade point average and assuming they have passed all courses, including P.E. and R.C.T. classes and meet attendance requirements. The perks associated with this system are that any student who achieves a particular status will be recognized by participating community merchants, through discounts on goods and services as well as other incentives, and by the school, which will provide a number of student benefits. The marriage between the school and local businesses, along with other community organizations, is a perfect way to show students that the entire school community is unified in supporting the students’ quest for attaining academic excellence.

One of the greatest challenges that educators of the 21<sup>st</sup> century face is motivating and inspiring our students. Encouraging students to excel academically is often an arduous task, and Renaissance continues to address this challenge by offering its unique system of incentives and rewards, both in and out of the classroom. This fall at William Floyd High School, there are smiles, excitement and a great feeling of satisfaction knowing that, since the program’s inception, the largest percentage of students have become Renaissance cardholders. These wonderful statistics, coupled with student and teacher enthusiasm, ensures that Renaissance will be around for many, many years. We have come a long way since the spring of ’92, but have “miles to go before we sleep. . .”

More specific information concerning the program can be obtained by calling (631) 874-1121.