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Executive Director of Curriculum
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CURRENT NEW YORK STATE DIPLOMA REQUIREMENTS*

**Regents Diploma**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
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<tr>
<td>Social Studies</td>
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<tr>
<td>Mathematics</td>
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<td>Science</td>
<td>3(A)</td>
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<tr>
<td>Health</td>
<td>.5</td>
</tr>
<tr>
<td>The Arts</td>
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<tr>
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<tr>
<td>Physical Education</td>
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<tr>
<td>Electives</td>
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**Total Credits – Required Minimum**

22

**Regents Exams**

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<thead>
<tr>
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<th>No</th>
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<tbody>
<tr>
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<td></td>
</tr>
<tr>
<td>Regents Math</td>
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<tr>
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<td>3rd Regents Math</td>
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</tr>
<tr>
<td>Regents Global History &amp; Geography</td>
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<tr>
<td>Regents U.S. History &amp; Government</td>
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<tr>
<td>Regents Science</td>
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<tr>
<td>2nd Regents Science</td>
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<tr>
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**Advanced Regents Diploma**

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**Total Credits – Required Minimum**

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**Regents Exams**

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<tr>
<td>LOTE – FLACS Checkpoint B</td>
<td>Yes(B)</td>
<td></td>
</tr>
</tbody>
</table>

**FOOTNOTES FOR DIPLOMA REQUIREMENTS CHART**

A. Students may meet the learning standards in technology, either through a course in technology education or through an integrated course combining technology with mathematics and/or science. A commencement-level course in technology education may be used as the third unit of credit in science or mathematics, but not both.

B. To earn the advanced designation, the student must complete one of the following:

1. A Language other than English (LOTE) (total of 3 credits) and pass FLACS Checkpoint B exam.
2. Career and Technical Education (CTE) (5 credits), including one credit in a Language other than English.
3. The Arts (5 credits), including one credit in a Language other than English.

C. Students must pass the LOTE course in grade 7 and 8, as well as pass the FLACS Checkpoint A Exam in grade 8 or a Level 1 high school language course to earn one unit of credit toward the high school diploma.

D. Elective credit can be earned for any course which is not being used to fulfill a core credit requirement (Arts, CTE, Math Science, English, Social Studies, LOTE).

E. New Graduation Pathways (“4+1” option): As of January 2015, rigorous assessment pathways in the Arts; Languages other than English (LOTE)/Biliteracy; Career and Technical Education (CTE); Humanities; Science, Technology, Engineering and Mathematics (STEM); and meet all of the requirements of the CDOS Commencement Credential (as of March 2016) can be used to meet graduation assessment requirements in place of passing the Global History and Geography Regents or United States History and Government Regents.

**ADDITIONAL NOTES**

1. Students who first enter grade 9 in 2008 and thereafter must score 65 or above on five Regents exams to receive a Regents diploma and eight Regents exams and FLACS Checkpoint B exam to receive an Advanced Regents diploma.

2. Students with disabilities who first enter grade 9 in September 2005 and thereafter, a score of 55-64 may be considered a passing score on any Regents Exam required for graduation with a local diploma. Students with disabilities are eligible for the Compensatory Option. Students who score a 45-54 on one or more required Regents exams may compensate with scores higher than 65 on other Regents exams. Attendance and a passing course grade are required. English and Math Regents scores must be a score of at least 55 (or an approved appeal of 52-54).

3. An Honors designation may be added to a(n):
   a. Regents diploma for students who have a computed average score of 90 or better on the five required Regents exams.
   b. Advanced Regents diploma for students who have a computed average score of 90 or better on the eight required Regents exams; and either at least a 65 on the FLACS Checkpoint B exam or a five unit sequence in the Arts or CTE.

4. A Mastery in Math designation may be added to an Advanced Regents diploma for students who have met all of the assessment requirements and, in addition, score 85 or better on each of the three Regents exams in Mathematics.

5. A Mastery in Science designation may be added to an Advanced Regents diploma for students who have met all of the assessment requirements and, in addition, score 85 or better on each of three Regents exams in Science.

LOTE = Languages other than English  
CTE = Business, Technology, Family and Career Sciences

*Subject to changes based on New York State regulations*
The Smithtown Central School District’s educational program strives to provide all students with the fundamental academic skills and knowledge required for their maximum educational development and the opportunity to develop their interests and abilities to the fullest extent according to their potential.

The district’s Challenge by Choice initiative has been developed to assist our students in selecting courses that will help them to reach their highest potential. This program guide contains information on course offerings, specifying all prerequisites, difficulty levels, course content, and course expectations. Students will receive departmental recommendations based on their academic record and current progress. Students interested in engaging in more challenging course work by enrolling in a related honors, college, or Advanced Placement course and who have taken the prerequisite course(s) may make those selections during the scheduling session in the computer lab. Students are encouraged to discuss their interest in taking more challenging coursework with their current classroom teacher, parents/guardians, and school counselor.

Once a student has enrolled in an honors, college, or AP level course, there is no guarantee that a future request for a level change can be accommodated (i.e., honors level to Regents level). For additional information on level changes, students and parents should refer to the student agenda to review the district’s course change/drop procedures.

We encourage students to pursue excellence and rigorous academic experiences. Should you have additional questions regarding course selections or program expectations, please remember that teachers, counselors, building administrators and departmental administrators are available to assist you.

**Prerequisites and Recommendations**

To guide students in making course selections, each course in the program guide includes any prerequisites. Students must pass and receive course credit for the course(s) listed as prerequisites to take the desired course.

In addition to any prerequisites, some courses may include a co-requisite. Courses listed as co-requisites must be taken concurrently with the desired course if not previously completed.

Some course descriptions also include recommendations about the skills and prior performance that provide a strong foundation for success in a course. Recommendations are intended to provide guidance to both parents and students as they consider enrolling in challenging coursework.

**AP Courses**

Students in Advanced Placement (AP) courses are expected to take the appropriate AP examination. The AP examination must be taken for an AP course to receive the additional 1.0 weighting for the grade point average. Students are expected to pay the associated College Board fee for the examination.

**College Board AP Capstone™ Program**

AP Capstone™ is a new diploma program being offered by the College Board designed to equip students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. According to the College Board website, it “cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.”

The AP Capstone™ courses consist of AP Capstone Seminar (grade 11) and AP Capstone Research (grade 12) offered through the English department. These courses can be used to fulfill the core 11th and 12th grade English requirements. Additional details on course requirements can be found in the English section of this program guide.

Students who earn AP scores of 3 or higher in AP Seminar and AP Research will earn the AP Seminar and Research Certificate™ from the College Board. Students who earn AP Scores of 3 or higher in AP Seminar, AP Research and four additional AP examinations will earn the AP Capstone Diploma™ from the College Board.

For more information on the AP Capstone™ program, please visit the following link: https://advancesinap.collegeboard.org/ap-capstone

**Project Lead the Way (PLTW)**

The Project Lead the Way curriculum is designed to increase a student’s exposure to the areas of science, technology, engineering, and mathematics (STEM). PLTW applies skills in each of these areas to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the “right” answer. Students learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation.
In PLTW Engineering, students engage in open-ended problem-solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world’s top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

In PLTW Biomedical Science, students are empowered to explore and find solutions to some of today’s most pressing medical challenges. Students step into the roles of biomedical science professionals and investigate topics including human medicine, physiology, genetics, microbiology, and public health. Students work together in teams to find unique solutions, and in the process, learn in-demand, transferable skills like critical thinking and communication.

For additional information on the PLTW program, please visit the following link: https://www.pltw.org/

Students enrolled in PLTW courses take a national end-of-course (EOC) examination. The EOC examination must be taken for a PLTW course to receive the additional 1.0 weighting for the grade point average.

**AP + PLTW Student Recognition Program**

According to the College Board, to help prepare students for the global workforce, the College Board and Project Lead the Way have partnered on a program to encourage student participation in science, technology, engineering and mathematics courses and build their interest in STEM careers and degrees. The program leverages the success of the College Board’s Advanced Placement Program and Project Lead the Way’s applied learning programs.

The program has three elements:
- College and career pathways in engineering, biomedical science, and computer science that connect AP and PLTW courses.
- Recognition for students who participate in the pathway.
- A portfolio of career-focused opportunities for students.

Students who complete the requirements of their chosen pathway earn the AP + PLTW student recognition, a qualification that demonstrates to colleges and employers that the student is ready for advanced course work and interested in careers in the discipline.

To earn the recognition, the student must satisfactorily complete three courses in the pathway — one AP course; one PLTW course; and a third course, either AP or PLTW — and earn a qualifying score of 3 or higher on the AP examination(s) and a score of Proficient or higher on the PLTW EOC examination(s).

For additional information on the AP + PLTW student recognition program, please visit the following link: https://www.pltw.org/our-programs/ap-pltw

**NCAA Clearinghouse**

Any student seeking consideration to participate in a college Division I or II athletics program for scholarship purposes must meet certain NCAA requirements. Clearance for NCAA requirements states that students must enroll and successfully complete 16 core credits and submit SAT or ACT scores from the testing agency. Core courses that are approved by the NCAA will be designated in the program guide by the following symbol: 🏋️‍♂️

All potential college athletes must log onto www.ncaaclearinghouse.net to complete the initial Eligibility Clearinghouse Form. Be sure to confer with your counselor should you have any questions.
**STUDIO IN ART (7015)**
Grades 9-12  
Full Year, 1 Credit  
*Prerequisite: None*
This course will focus on the basic principles of art and the elements of design as they relate to two- and three-dimensional art. Studio in Art will give students a survey of many different media and techniques, providing an excellent foundation for all other art courses. As well as maintaining a sketchbook for ideas, designs, and assignments, activities will include drawing, painting, printmaking, graphic design, sculpture, and crafts. It is strongly recommended that Studio in Art be taken as a prerequisite to all elective art courses. Studio in Art is required for AP Art students. Studio in Art fulfills the art graduation requirement.

**STUDIO IN CRAFTS 1 (7501)**
Grades 9-12  
Half Year, .5 Credit  
*Prerequisite: None*
This course will focus on the basic principles of art and the elements of design as they relate to two- and three-dimensional design projects that reflect historical and multicultural references. Students will learn to apply design concepts influenced by historical research to all projects. Originality and imagination are stressed. While learning the impact various cultures have had on crafts, students may explore the areas of tie-dye, batik, weaving, basketmaking, book arts, and printing. Studio in Crafts 1 combined with Studio in Crafts 2 fulfill the art graduation requirement.

**STUDIO IN CRAFTS 2 (7511)**
Grades 9-12  
Half Year, .5 Credit  
*Prerequisite: Studio in Crafts 1*
A continuation of Studio in Crafts 1, this course will explore two- and three-dimensional craft techniques and their cultural impact while focusing on the basic principles of art and the elements of design. Working through the many cultural and historical influences of craft throughout the ages, students may explore areas of papermaking, printing, jewelry making, stained glass, enameling, and ceramic sculpture. Studio in Crafts 1 combined with Studio in Crafts 2 fulfill the art graduation requirement.

**STUDIO IN DIGITAL MEDIA ARTS (7305)**
Grades 9-12  
Full Year, 1 Credit  
*Prerequisite: None*
College and career readiness emphasizes 21st-century learning skills such as the ability for students to communicate and express themselves in an artistic and creative manner through the use of multimedia technology. Students will use industry standard applications to create digital media focusing on design, production, and function. Students may collaborate and communicate as design teams to manage projects. Projects may include animation, video game design, 3-D printing, photography, film/video, web design, coding, interactive media, and communication design. Studio in Digital Media Arts fulfills the art graduation requirement.
FILM & VIDEO 1 (7306)
Grades 10-12
Half Year, .5 Credit
Prerequisite: None
Recommendation: Students have taken Studio in Digital Media Arts
While studying the phenomenon of persistence of vision, students will discover the magic in motion picture making. They will learn techniques in cell and cut paper animation, claymation, live-action filmmaking methods, and videography, as well as some computer graphics. Major assignments include a flipbook, an animated movie, and a live-action video production. Drawing, storyboard preparation, set building, clay modeling, and scriptwriting are among the various processes studied in Film and Video. Drawing ability is not necessary.

PHOTOGRAPHY 1 (7307)
Grades 10-12
Half Year, .5 Credit
Prerequisite: None
Recommendation: Students have taken Studio in Digital Media Arts
While studying the art of making great pictures, students will learn the basic principles of design and composition. The course will cover the basics of digital photography, and students will learn how to effectively use both single-lens reflex and point-and-shoot cameras. Students will learn about camera basics such as aperture, shutter speed, and exposure and then apply the knowledge in the digital world with computer programs such as Adobe Photoshop and Lightroom.

PAINTING 1 (7091)
Grades 10-12
Half Year, .5 Credit
Prerequisite: None
Recommendation: Students have taken Studio in Art
This is an introductory course in painting. Students will learn to apply elements of design in developing original paintings on various surfaces and stretched canvas in the areas of still life, abstract works, portraits, and landscapes. Students will learn color theory as applied to paint and will work with acrylics, watercolors, and various other media. This course is required for any student planning to take AP Art.

DRAWING & PAINTING 2 (7105)
Grades 10-12
Half Year, .5 Credit
Prerequisites: Drawing 1 and Painting 1
This advanced-level course will provide opportunities for further development of individual expression. Techniques and materials learned in the Drawing and Painting classes are expanded to achieve a more professional and sophisticated vision. Students will create a portfolio of completed pieces that can be used for entry into AP Art and college.

ADVANCED FILM & VIDEO (7320)
Grades 10-12
Half Year, .5 Credit
Prerequisite: Film & Video 1
This course is designed to give students the opportunity to experience how films are developed and to create
their own short films. Through the screening of various professional films, students will learn how to write and film their own works. Each student will shoot individual assignments as well as work together in groups creating collaborative projects. They will study the art of screenwriting, cinematography, film production, editing, and marketing. All students will gain valuable, in-depth experience while working with motion-picture cameras.

**FILM HISTORY & CRITICISM (7350)**
Grades 10-12  
Half Year, .5 Credit  
Prerequisite: None

Through the screening of a variety of significant films such as “Citizen Kane” and “The Graduate,” students will learn the history of motion pictures. The class will focus on the different historical perspectives and cultural influences in film from the early days of film with works such as “Birth of a Nation” to present-day films including “The Matrix” and “Memento.” Students will study the early history of motion pictures and learn how films were first developed, how they evolved, and where they are going. Full-length films will be analyzed for plot, technique, symbolism, and character development. Utilizing classroom discussions, written comparisons, character sketches, and reviews, the students will learn to sharpen their powers of criticism and appreciate the artistic value of film. No background in art or film is necessary.

**CERAMICS 1 (7561)**
Grades 10-12  
Half Year, .5 Credit  
Prerequisite: None

Through the screening of a variety of significant films such as “Citizen Kane” and “The Graduate,” students will learn the history of motion pictures. The class will focus on the different historical perspectives and cultural influences in film from the early days of film with works such as “Birth of a Nation” to present-day films including “The Matrix” and “Memento.” Students will learn about the early history of motion pictures and learn how films were first developed, how they evolved, and where they are going. Full-length films will be analyzed for plot, technique, symbolism, and character development. Utilizing classroom discussions, written comparisons, character sketches, and reviews, the students will learn to sharpen their powers of criticism and appreciate the artistic value of film. No background in art or film is necessary.

**CERAMICS 2 (7571)**
Grades 10-12  
Half Year, .5 Credit  
Prerequisite: Ceramics 1

Students will continue to build on foundation skills learned in Ceramics 1. This course focuses on the further development of hand-building, the potter's wheel, surface decorations, and glazing techniques in an advanced studio environment.

**AP STUDIO ART (7470)**
Grades 11-12  
Full Year, 1 Credit  
Summer Assignment Required

Prerequisites: Studio in Art, Drawing 1, Painting 1, portfolio review and/or departmental approval  
Recommendation: Students have completed Drawing & Painting 2

The AP Studio Art course is designed for highly motivated students who are seriously interested in a college-level study of art. Students must successfully complete at least a 3-credit sequence in art, undergo a portfolio review and receive departmental approval before they can enroll in the AP Art course. AP Art students are expected to have a firm grasp of the elements of design and the principles of art before they begin the Advanced Placement course of study. AP Art assignments are designed to help students think at a higher, more sophisticated level. Art assignments are formulated to meet most college and art school admissions requirements. Assignments may include a wide assortment of design, drawing, painting, printmaking, computer art, sculpture, and mixed media problems.

At the conclusion of the year, AP Art students are expected to take a performance-based exam which allows them to earn college credit if they achieve a rating acceptable to the college or school to which they have applied. Throughout the year, AP Art students prepare and develop portfolios in accordance with the College Board’s AP qualifying regulations. This portfolio prepares them for regional and national exhibitions, enables them to participate in scholarship competitions, and provides competitive opportunities for admission to colleges and professional art schools. Portfolio development is an evolving process, and at regular intervals throughout the year students will have their portfolios evaluated by both teachers and college admissions representatives. Based on enrollment, this course may be offered on alternate years.
Art

Studio in Art
- Drawing 1
- Painting 1
  - Fashion Illustration
  - Drawing & Painting 2

Studio in Crafts 1
- Studio in Crafts 2
- Ceramics 1
  - Ceramics 2

Studio in Digital Media
- Film & Video 1
  - Advanced Film & Video
- Photography 1
  - Computer Art & Design

AP Studio Art

AP Studio Art 2

Electives

Film History & Criticism
ACCOUNTING (5010)
Grades 9-12  
Half Year, .5 Credit  
Prerequisite: None
Accounting is the “language of business” and is a necessary course for many college majors and for all college business majors. Learn the basics of understanding business financials. This course stresses the principles and procedures needed to build a beginning foundation in accounting fundamentals. The course will focus on the accounting cycle of a small business.

COLLEGE COMPUTER APPLICATIONS (5500)
Grades 10-12  
Half Year, .5 Credit  
Prerequisite: None
Members of the class may elect to take the course for 3 college credits from SUNY Farmingdale.
The most necessary course for any college major! Using the latest version of Microsoft Office (Word, Excel, Publisher and PowerPoint) and Google Docs, students will learn the basics of word processing, spreadsheets, databases, and digital presentations. Students will also explore the creation of their own websites, as well as current trends in technological communication and networking. Students will become familiar with applications that are commonly used in both the college classroom and the workplace. The applications learned can be used for communications, business, graphic arts, science, math, and engineering. Microsoft Office is the preferred program used by most large and small companies in the U.S.A. It is essential that every high school graduate be competent in these programs in today’s highly technological world. No previous experience with these programs is required, although the ability to keyboard proficiently is recommended.

BUSINESS MATH & FINANCIAL APPLICATIONS (5100)
Grades 10-12  
Full Year, 1 Credit  
Prerequisite: None
This course teaches students real-world applications of mathematics to everyday personal and business financial situations. This course will prepare students with the appropriate tools to understand banking, savings and investing, calculation of loans, preparing payroll, income tax preparation and personal investing for the future. Students will learn these business mathematical concepts through the use of a business simulation project. Computer applications will be used to reinforce class discussions.
COLLEGE ACCOUNTING 1 (5020)
Grades 10-12
Full Year, 1 Credit
Members of the class may elect to take the course for 3 college credits from SUNY Farmingdale.
Credit for this course may be used to meet the third-year math requirement.
Prerequisite: None
Planning on majoring in accounting, management, marketing, finance, or any other business area in college? Do you have an entrepreneurial spirit and want to own your own business? Do you want to work for the FBI or one of the Big 4 accounting firms? Then this class is for you. Build your foundation now with this college-level accounting course designed for the motivated student. The topics covered are those in a college introductory course. No previous accounting course is required. Students will learn to tackle the requirements of a college course. Information will be applied in a variety of novel accounting situations. The computer will also be utilized for various applications.

COLLEGE ACCOUNTING 2 (5025)
Grades 11-12
Full Year, 1 Credit
Credit for this course may be used to meet the third-year math requirement.
Prerequisite: College Accounting 1
This course is designed for the highly motivated, above-average high school student who has a strong interest in accounting. The topics covered are those that are taught in a second-term college accounting course. This course will cover topics such as account classification, financial statements for partnerships and corporations, retained earnings, earnings per share, notes and bonds payable, budgets, cash flow statements, and managerial accounting. The computer will also be utilized to enhance learning the above topics. It will provide practical applications of the learned material. Credit for this course may be used to meet the third-year math requirement.

COLLEGE BUSINESS LAW (5091)
Grades 10-12
Full Year, 1 Credit
Members of the class may elect to take the course for 6 college credits from SUNY Farmingdale.
Prerequisite: None
College Business Law is designed to have students learn and apply the fundamental legal principles behind criminal law, tort law, and contractual law. Students will be engaged in up-to-date legal issues that will be used to apply taught legal principles to these current cases. This course will explore legal issues such as marriage (family law), employment law, real estate (property law), corporate law, and contract law, with the use of the internet and presentations from guest speakers. It is beneficial for students who will attend college and pursue a career in law, business administration, or accounting.

COMMUNICATIONS & COLLEGE SKILLS (5510)
Grades 11-12
Half Year, .5 Credit
Members of the class may elect to take the course for 3 college credits from SUNY Farmingdale.
Prerequisite: None
This course develops one of the most essential global skills – communication – while also preparing students for college. The following aspects will be addressed: writing, reading, researching, listening, speaking, and presenting. Technical writing skills will also be addressed through researching the entire college process, from the college search to completion of the college essay. This course provides students with the skills they need to become critical thinkers and active learners. After being exposed to the differences between the high school and college environment, students will find the transition easier. Based on increasing self-awareness, this course puts students in a position to reason and make better decisions. This course will develop a wide range of competencies that are essential for post-secondary success.

ENTREPRENEURSHIP – VIRTUAL ENTERPRISE (5110)
Grades 10-12
Full Year, 1 Credit
Members of the class may elect to take the course for 6 college credits from
The Virtual Enterprise is an international business simulation program that has students create and manage their very own virtual business. You, the students, take on the role of employees and will be involved in actual “on-the-job” work experiences, including sales, marketing, accounting, personnel management, etc. The only difference between the VE and an actual business is that no material goods are produced or real money exchanged. Students will work in one or more of the departments in the VE organization. In each department, students will be expected to work individually and as a member of a team to fulfill the responsibilities and tasks associated with their department. Students will develop initiative, creativity and responsibility, and enhance oral and written communication skills, as well as improve their ability to work on a team.

FASHION MARKETING (5130)
Grades 9-12
Half Year, .5 Credit
Students who achieve a final average of at least a “B” or better will be eligible to receive 3 college credits for one fashion elective at the Laboratory Institute of Merchandising in Manhattan. Students must submit a final official high school transcript to the college upon graduation.
Prerequisite: None
Are you curious about fashion designers, models, hair and makeup artists, and celebrity styles? This course is designed to give you the latest information on the trends which will affect every aspect of how you look and dress. Students will be introduced to the terminology and fundamentals of the fashion industry. Introductory business and marketing concepts are covered through this course with a focus on the multibillion dollar fashion industry. Fashion industry speakers and field trips help to enhance the learning and application of concepts covered in class.

INTRODUCTION TO BUSINESS (5080)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
Discover the exciting world of business and what it can offer you. Learn what it takes to become an entrepreneur and how to structure your partnership or corporation. Explore different segments of business activities such as the free enterprise system, Maslow’s Hierarchy of Human Needs, ethics, global economy, government role in business, marketing, and advertising. This course is a foundation course that includes a variety of experiences, case studies, team projects, and presentations. This course provides fundamental business knowledge for students, providing an easy transition from school to college and the work force. Students will become familiar with the modern business environment and current terminology used in business.
PERSONAL FINANCIAL MANAGEMENT (5119)
Grades 9-12
Half Year, .5 Credit
This is a required course for students graduating with a CTE sequence.  
Prerequisite: None
The purpose of this course is to provide students with skills for money management. Start with a goal, create a plan, implement your plan, and adjust as needed to accomplish your financial goals. Learn the skills and competencies needed for success in the workplace and to begin to become financially literate. This course has also been developed to allow students to begin to meet the Career Development and Occupational Studies learning standards at the commencement level. Topics covered include banking and economic systems, budgeting, investments, insurance, credit, financial literacy, identity theft, and career planning.

KEYBOARDING FOR COLLEGE & CAREERS (5170)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
Students enrolled in this course will develop accurate keyboarding skills with the use of our computer-aided keyboarding software. Given the usage of computers in school and business, keyboarding is an essential part of a student’s academic and non-academic life. This course will enable students to learn the touch system of keyboarding and then apply these skills in the latest word processing applications. As a part of this course, students will learn various types of current business document formatting using Microsoft software and Google Docs. Keyboarding will help students throughout their high school and college career and provide them with employability skills.

PRINCIPLES OF MARKETING & ADVERTISING (5120)
Grades 10-12
Full Year, 1 Credit
Members of the class may elect to take the course for 6 college credits from SUNY Farmingdale.  
Prerequisite: None
From Madison Avenue to Hollywood! Explore the psychology of promoting and selling goods and services. Learn how and why Great Adventure and Disney World sell their amusement parks to you, the consumer. Learn how major stores such as Abercrombie & Fitch and McDonald’s target customers and develop marketing strategies for those customers. Students examine consumer behavior and government regulations pertaining to the business world. Current events, trends, and case studies will be integrated and evaluated throughout the classroom discussions. Students will explore the world of social media and how it is implemented in marketing. In addition, students will create a marketing plan and presentation for a product that they invent for the Smithtown marketplace. Guest speakers and hands-on projects are all part of this exciting year. This course is also the foundation course for our school’s DECA chapter, a cocurricular national marketing association. Students are encouraged to join and participate.

BUSINESS OF MUSIC (5155)
Grades 10-12
Half Year, .5 Credit
Prerequisite: None
The business of music is a global multibillion dollar industry comprised of individuals working in many different capacities. There are people creating the music; working at labels, distribution companies, publishing companies and recording studios; artist management and promotion; producing; and legal counsel. This course is designed to introduce students to the business aspect of the music industry. Focusing on the mechanics behind the scenes, students will develop an understanding of the terminology of the recording and music industry, the careers associated with the industry, and the marketing strategies that are employed to help to sell music, concert tickets, and associated merchandise. Guest speakers and field trips will be utilized to provide a real-world association with the materials presented.

SPORTS MARKETING (5160)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
This half-year course is designed for students with an interest in the
sports industry and its related careers. Marketing is the tool that has allowed the United States economy to be one of the most successful in the world. Introductory business and marketing concepts are covered throughout this course with a focus on the multibillion dollar sports industry. Additionally, marketing has also made the sports and entertainment industries important parts of our modern economy. Fans and companies spend billions of dollars each year on sports, while entertainment is one of the largest exports the U.S. offers to the rest of the world. Utilizing the specific environments of both industries, students will be introduced to the basic marketing principles and components that are used in our economic system. The exploration of these principles will be studied and applied in an active, hands-on participative environment, through class projects, internet simulations, and general classroom lectures.

SPORTS MANAGEMENT (5165)
Grades 10-12
Half Year, .5 Credit
Members of the class may elect to take the course for 3 college credits from SUNY Farmingdale College.
Prerequisite: Sports Marketing
This course is designed for students who are interested in the daily operations and decision-making processes of their favorite sports team, or learning what it takes to be an executive in the sports industry. In this course, you will learn how teams are owned and operated within today’s dynamic global economy. Students will also be given a broad understanding of the sports business sector by exploring available career opportunities, the development of the sports management profession, and how to manage the pressures of human resources, ethics, societal influences, and media relations. Utilizing specific environments from professional sports franchises and leagues, students will be introduced to basic managerial principles and philosophies through the context of the sports industry. The exploration of these topics will be studied and applied in an active and participative environment, through class projects, internet simulations, and general classroom lectures.

MAIN STREET: PERSONAL INVESTMENTS (5520)
Grades 10-12
Half Year, .5 Credit
Members of the class may elect to take the course for 3 college credits from SUNY Farmingdale College.
Prerequisite: None
Imagine yourself being able to achieve your personal financial dreams. This course will give you the opportunity to explore personal investment opportunities beyond the stock markets. International finance and economics will be examined in a current context, including their impact and relationship to the U.S. financial markets. Students will review stock market investing concepts and learn more advanced concepts and strategies about the stock market. They also will be introduced to all types of investment classifications such as bonds, mutual funds, international investments, options, and futures necessary to achieve a balanced personal investment portfolio. Guest speakers will update students on current events and careers in the financial field and will enrich their knowledge of investments.

WALL STREET: INTRODUCTION TO INVESTMENTS (5042)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
The class will explore and analyze the basic business areas of management, economics, and finance in today’s global financial marketplace. Students will develop an introductory knowledge of the stock market (the ABCs of investing). We will also discuss stocks, mutual funds, and 401(k) plans as retirement options. The use of current events is stressed. This knowledge is applied to the challenges of investing. Students will relate how economic and business principles affect investments through guest speakers, a stock market contest on the internet, and classroom lecture and activities. Students will also participate in the SIFMA Stock Market Game.
COLLEGE AND CAREER PLANNING (5445)
Grades 10-12
Half Year, .5 Credit
Prerequisite: None
Where do I begin? What do I want to do with my life after graduation? Students will explore college options as related to their interests and begin to plan for their career through research and exploration activities. Students will create a career plan to lay the foundation for sound career decision-making. First, students will explore “who you are” and what careers are best suited for them. Class activities will include self-assessment, career research, and identification of high school courses needed as well as suitable college majors. Guest speakers and industry professionals will enhance student learning. All students will complete a Career Portfolio, which will include results of career research as well as their self-assessment of their current résumé and references. This course is a perfect introduction to Career Jump Start, in which students may obtain a paid or nonpaid internship in the career field of their choice.

CAREER JUMP START (CO-OP) (5430)
Grades 11-12
Half Year, .5 - 2.5 Credits
Prerequisite: None
Jump-start your future career by gaining valuable workplace experience through paid and nonpaid internships and jobs. Prepare yourself for college and the employment world. Students will gain insight to the jobs of the 21st century and learn how to compete in the global job market. Students in Career Jump Start will receive assistance in obtaining a workplace experience or internship. Students need to be at least 16 years of age and be able to provide transportation to and from a workplace site. Students are not necessarily required to leave school early to take advantage of workplace opportunities. A student will receive .5 credit for the class and an additional .5 credit for 150 hours of work outside of school (up to 2 credits for 600 hours of workplace experience). It is recommended that students take the Career Planning course before taking this course.
Business

Foundation Courses

- Keyboarding for College & Careers
- Personal Financial Management
- Introduction to Business
- Business Math & Financial Applications

Accounting

- Accounting
- College Accounting 1
  - College Accounting 2

Computer Information Technology

- College Computer Applications

Management, Finance, and Investments

- Wall Street: Introduction to Investments
- Main Street: Personal Investments
- College Business Law
- Entrepreneurship – Virtual Enterprise
  - Sports Marketing
    - Sports Management

Marketing/Public Relations

- Principles of Marketing & Advertising
- Sports Marketing
- Fashion Marketing
- Fashion Apparel and Accessories
- Business of Music

Competitive Advantage Transition Courses

- College And Career Planning
- Career Jump Start Co-Op
- Communications & College Skills
ENGLISH 9 (1010)
Grade 9
Full Year, 1 Credit
Prerequisite: English 8
English 9 is aligned to the NYS Learning Standards and prepares students to take the English Regents Examination at the end of their junior year. Students receive instruction in reading and the writing process through the study of a range of literature, including short stories, poetry, drama, nonfiction, and informational passages. The curriculum builds students’ grammar and vocabulary skills through direct instruction and a constant exposure to challenging terminology. A sequential set of reading, writing, listening, and speaking objectives provides overall unity to English 9 and ultimately prepares students for the English Regents in grade 11. Students are required to complete a research paper. Students will take a midterm and a final exam. The final exam grade counts as one-fifth of the overall course grade.

ENGLISH 9 (1010RE)
Grade 9 Regents Extended Lab
Full Year, Alternate Day
2.5 Periods/Week
Prerequisite: Departmental placement
The grade 9 Regents Extended Lab is designed for students who have demonstrated the need for extra support in reading and writing skills. Student needs are addressed through additional class time and modified instructional materials that intensively tackle basic language arts skills. The extra support period may satisfy the Academic Intervention Service requirement.

ENGLISH 9 HONORS (1020)
Grade 9
Full Year, 1 Credit
Summer Assignment Required
Prerequisite: English 8
Recommendation: English 8 with a grade of at least B+
English 9 Honors is aligned to the NYS Learning Standards and prepares students to take the English Regents Examination at the end of their junior year. The course is designed for grade 9 students who have demonstrated superior abilities in all areas of English Language Arts. The purpose of the course is to challenge students’ intellect and to increase the range of their literary skills through advanced reading and intensive writing instruction. Students will be prepared to take AP Language and Composition, AP Capstone Seminar, and AP Literature. Students are required to complete a research paper. Students will take a midterm and a final exam. The final exam grade counts as one-fifth of the overall course grade.

ENGLISH 10 (1040)
Grade 10
Full Year, 1 Credit
Prerequisite: English 9 Honors or English 9
English 10 is aligned to the NYS Learning Standards and prepares students to take the English Regents Examination at the end of their junior year. The course builds on many of the skills and activities initiated in English 9R. Reading skills and the writing process are emphasized, in addition to a rich literature program including
classic literature titles, nonfiction, and informational passages. A sequential set of reading, writing, listening, and speaking objectives provides overall unity to English 10. The curriculum builds students’ grammar and vocabulary skills through direct instruction and a constant exposure to challenging terminology. Students are required to complete a research paper. Students will take a midterm and a final exam. The final exam grade counts as one-fifth of the overall course grade. Students requiring additional support will be scheduled for the Regents Extended Lab.

ENGLISH 10 (1040RE)
Grade 10 Regents Extended Lab
Full Year, Alternate Day
2.5 Periods/Week
Prerequisite: Departmental placement
The grade 10 Regents Extended Lab is designed for students who have demonstrated the need for extra support in reading and writing skills. Student needs are addressed through additional class time and modified instructional materials that intensively tackle basic language arts skills. The extra support period may also satisfy the Academic Intervention Service requirement.

ENGLISH 10 HONORS (1050)
Grade 10
Full Year, 1 Credit
Summer Assignment Required
Prerequisite: English 9 Honors or English 9
Recommendation: English 9 with a grade of at least B+
English 10 Honors is aligned to the NYS Learning Standards and prepares students to take the English Regents Examination at the end of their junior year. The course is designed for grade 10 students who have demonstrated superior abilities in all areas of English Language Arts. The purpose of the course is to challenge students’ intellects and to increase the range of their literary skills through advanced reading and intensive writing instruction. Students will be prepared to take AP Language and Composition, AP Capstone Seminar, and AP Literature. Students are required to complete a research paper. Students will take a midterm and a final exam. The final exam grade counts as one-fifth of the overall course grade.

ENGLISH 11 (1070)
Grade 11
Full Year, 1 Credit
Prerequisite: English 10 Honors or English 10
English 11 is aligned to the NYS Learning Standards and prepares students to take the English Regents Examination in June. The course builds on many of the skills and activities initiated in English 10. Reading skills and the writing process are emphasized, in addition to a rich literature program. A sequential set of reading, writing, listening, and speaking objectives provides overall unity to English 11. Emphasis is on advancing reading, writing, research, and analytical skills. Students are required to complete a research paper. Students will take the English Regents in June, and it will count as one-ninth of the overall course grade. Students requiring additional support will be scheduled for the Regents Extended Lab.

ENGLISH 11 (1070RE)
Grade 11 Regents Extended Lab
Full Year, Alternate Day
2.5 Periods/Week
Prerequisite: Departmental placement
The grade 11 Regents Extended Lab is designed for students who have demonstrated the need for extra support in reading and writing skills. Student needs are addressed through additional class time and modified instructional materials that intensively tackle basic language arts skills. The extra support period may also satisfy the Academic Intervention Service requirement.

AP CAPSTONE SEMINAR (1100)
Grade 11
Full Year, 1 Credit
Prerequisite: English 10 Honors or English 10
Recommendation: Cumulative average of B+ or better and the ability to collaborate with others
AP Capstone is an innovative program that allows students to engage in a rigorous development of the critical skills necessary for success in college. The program of study includes a two-course sequence: AP Seminar and AP Research. Students enrolled in AP Capstone Seminar will learn how to investigate real-world topics from multiple perspectives. Students will carefully analyze information, write evidence-based arguments, and effectively communicate them to others. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to
synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. In addition to taking the AP Seminar examination, students are required to take the English Regents examination as part of their graduation requirement. The Regents examination will count as one-ninth of the overall course grade.

AP ENGLISH LANGUAGE AND COMPOSITION (1085)
Grades 11-12
Full Year, 1 Credit
Prerequisite: English 10 Honors or English 10
Recommendation: Cumulative average of B+ or better
Advanced Placement English Language and Composition is a course for highly motivated students who, in their junior year, want to take a college-level English course. All students in the course take the AP English Language and Composition Exam. Depending on their score, students may apply for advanced placement when they enter college. This course is the equivalent of a college freshman composition class with emphasis on advanced writing skills. The demands of AP Language and Composition are very high, and this is considered a challenging course. Students who wish to sign up must be competent and highly motivated. As juniors, they are required to take the English Regents Examination as part of their graduation requirement. The Regents exam will count as one-ninth of the overall course grade.

AP CAPSTONE RESEARCH (1105)
Grade 12
Full Year, 1 Credit
Prerequisite: AP Capstone Seminar
AP Capstone Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. Students further develop the skills acquired in the AP Capstone Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4,000-5,000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

ENGLISH 12 HONORS (1095)
Grade 12
Full Year, 1 Credit
Students may elect to take this course for 3 college credits through Stony Brook University.
Prerequisite: AP English Language and Composition, AP Capstone Seminar or English 11
Recommendation: Cumulative average of B+ or better
Students who opt for this credit must enroll online in the Stony Brook University ACE Program and pay the reduced tuition by the deadline established by the university. English 12 Honors is aligned to the NYS Learning Standards and prepares students for college entrance. The course is designed for grade 12 students who have demonstrated superior abilities in all areas of English Language Arts. The purpose of the course is to challenge students’ intellects and increase the range of their literary skills through advanced reading and intensive writing instruction. Students are required to complete a research paper and a senior project that counts as a final exam grade.

AP ENGLISH LITERATURE AND COMPOSITION (1120)
Grade 12
Full Year, 1 Credit
Summer Assignment Required
Prerequisite: AP English Language and Composition, AP Capstone Seminar or English 11
Recommendation: Cumulative average of B+ or better

Advanced Placement English Literature and Composition is a course for highly motivated students who, in their senior year, want to take a college-level English course. All students in the course take the AP English Literature and Composition Exam. Depending on their score, students may apply for advanced placement when they enter college. This course is the equivalent of a college freshman literature class with emphasis on advanced writing skills. The demands of AP Literature and Composition are very high. Students who wish to sign up must be competent and highly motivated.

ENGLISH ELECTIVE COURSES

The English Department is a rich resource for students interested in expanding their creative horizons and sharpening their career skills. We encourage all students to round out their high school experience by exploring these stimulating courses. All elective courses offered by the English Department count towards the Regents Diploma elective requirements.

CREATIVE WRITING 1 (1250)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
Creative Writing exposes students to the challenges of writing short stories, poetry and drama by providing extensive practice in these genres. The course is a workshop/seminar with the students’ own writing serving as the primary material for discussion and analysis. Assignments will be geared toward providing a variety of writing experiences, covering such skills as characterization, point of view, narration, and dialogue. Student work is gathered, and our award-winning literary magazines, Penumbra and Solstice, include much of the student writing from the course.

CREATIVE WRITING 2 (1260)
Grades 10-12
Half Year, .5 Credit
Prerequisite: Creative Writing 1
Creative Writing 2 is a continuation of Creative Writing 1 with the emphasis adapted to meet individual students’ interests in short stories, plays, and poems. Individual projects will be developed cooperatively between student and teacher in a workshop/seminar atmosphere. Student work is gathered, and our award-winning literary magazines, Penumbra and Solstice, include much of the student writing from the course.

SPEAK UP! (1285)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
Do you want to participate more in classes? Do you wish you could join in lively conversations? Are you too nervous during presentations? Do you love to debate others? Speak Up! is an exciting elective course for students who wish to overcome fears of public speaking. Students will get to choose topics, learn how to craft effective speeches, and build their speaking confidence. Basic and advanced techniques will be explored, including interviews, reading stories aloud, random rants, sports and celebrity commentary, debating hot issues, etc.

FILM AND LITERATURE (1235)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
This course will explore the relationship between literature and cinema by focusing on film adaptations of popular and classic literature. Students will read a variety of literary genres such as the novel, short stories, and nonfiction essays, and then view selections from the corresponding films. The course will examine various genres such as romance, children’s literature, crime/noir, Westerns, science fiction, horror/suspense, classics, and drama. By understanding the process by which we “read” a film, students will be able to better dissect a text. Students will examine both literary and film devices to address the central questions: How can analyzing film adaptations allow us to better understand the techniques and purpose of both literature and film in our society? What are the underlying issues and possibilities in the process of adapting a text? There will be a variety of writing assignments including film reviews, blog entries, adaptation assessments, and creative writing.

SCIENCE FICTION: HEROES, MYTHS & LEGENDS (1350)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
This high-interest course will allow students to explore the relationship between popular culture, legends, science fiction, and mythology. Students will be offered the opportunity to deepen their understanding of a variety of writing and film genres. Many of us are
already familiar with the characters and narratives of contemporary science fiction, making it easier for us to examine the presence of stereotypes and mythological elements in these popular stories. Students will read and view contemporary legends and science fiction stories that are based in classical myths.

INTRO TO JOURNALISM & MEDIA LITERACY (1321)
Grades 9-12
Half Year, 0.5 Credit
Prerequisite: None
This course will introduce students to aspects of print and mass media. Students will have an opportunity to improve their writing by actively participating in the writing process, beginning with brainstorming and ending with publication. Students will be introduced to various forms of media, learning how to consume and evaluate the media in its various forms. The primary purpose of the course is to involve students in the various activities that are part of producing a print and online newspaper and publishing written work.

JOURNALISM & MEDIA LITERACY (1322)
Grades 10-12
Full Year, 1 Credit
Prerequisite: Introduction to Journalism & Media Literacy
Journalism & Media Literacy is a full-year elective course designed to stimulate and challenge serious writers. Students will have the opportunity to write, edit, produce, and even broadcast their stories in various forms including, but not limited to, print, radio, video, websites, and podcasts. The class functions primarily as a workshop to produce MSGVarsity.com content and the school newspapers for Smithtown High Schools eastern and western campuses (both The Bull’s Eye and The Matador are award-winning publications). Students must have a passion for writing and a strong interest in newspapers, broadcast journalism, current events, and photography. Students must be able to gather information, generate stories, take photos and video, cover events outside of the regular school day, and work with a group to share and receive constructive criticism of their products. The course will cover interviewing techniques, research procedures, career opportunities, and freedom of the press, as well as the production, editing, and social skills associated with broadcasting.

ADVANCED JOURNALISM & MEDIA LITERACY (1323)
Grades 10-12
Full Year, 1 Credit
Prerequisite: Intro to Journalism & Media Literacy or Journalism & Media Literacy
This course is designed for serious journalism students who have been successful in Media Literacy. Students will continue to be trained to think critically about what they read, watch, and hear. The class will utilize 21st-century tools such as digital cameras, digital video, and Smart Boards to present their stories. As an extension of Media Literacy, students will continue their work on MSGVarsity.com and The Bull’s Eye or The Matador by assuming leadership roles and honing their skills and talents in both print and broadcast journalism.
**English**

**Grade 9**
- English 9 Honors or English 9

**Grade 10**
- English 10 Honors or English 10

**Grade 11**
- AP Capstone Seminar or English 11
- AP English Language and Composition

**Grade 12**
- AP English Language and Composition or English 12
- AP English Literature and Composition or AP Capstone Research or English 12 Honors (ACE Program)

**Electives**

- Introduction to Journalism & Media Literacy
- Film and Literature
- Creative Writing 1

- Journalism & Media Literacy
- Speak Up!
- Creative Writing 2

- Advanced Journalism & Media Literacy
- Theatre Arts
- Science Fiction: Heroes, Myths & Legends

- Theatre Arts 2
Family & Consumer Sciences Courses

(Career & Technical Education)

CHEF’S CHOICE 1 (6005)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
This is an important course for every high school student, whether college or career bound. Course contents incorporate sound nutrition concepts with practical food labs. Students learn the importance of teamwork, time management, and healthy diets while preparing various foods. Food demonstrations and guest speakers are part of the course.

BAKING (6080)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
No prior cooking experience is necessary to enroll in this class. Students will learn the basics of food preparation along with the principles of baking cookies, cakes, pies, and breads. Cake decorating techniques will be taught. This basic unit culminates with a cake-decorating contest. Guest speakers and field trips are incorporated whenever possible.

CHEF’S CHOICE 2 (6015)
Grades 9-12
Half Year, .5 Credit
Prerequisite: Chef’s Choice 1
This course focuses on the preparation of a variety of foods. Students work cooperatively in a lab setting incorporating advanced cooking methods and techniques. Complete meals are prepared with an emphasis on presentation and nutrition.

FOOD SCIENCE (6085)
Grades 11-12
Full Year, 1 Credit
Credit for this course may be used to meet the third-year science requirement.
Prerequisite: None
This course is designed to reinforce and enhance students’ knowledge of scientific principles and processes as it applies to the study of food and nutrition. Food Science connects aspects of food chemistry, biology, earth science, and psychology to real-life examples through class discussions, experiments, projects, and cooking labs. It explains the scientific principles and processes that occur inside your pan each time you cook and inside your body every time you eat. Students will have the opportunity to cook and sample nutritious foods to observe their impact on the human body. This course is great for students interested in career and technical education as well as the field of food preparation or dietetics.

CHILD DEVELOPMENT (6030)
Grades 10-12
Half Year, .5 Credit
Prerequisite: None
Do you enjoy children? Are you interested in becoming a teacher, pediatrician, or counselor? Students learn about the stages of childhood as they study the behavior of infants, toddlers, and preschoolers in this class. Caring for our simulated baby allows students to acquire parenting skills and realistic expectations of children’s needs.
COLLEGE CHILD DEVELOPMENT (6040)
Grade 12 or Grade 11 (with departmental permission)
Half Year, .5 Credit
Students may elect to take the course for 3 college credits from Adelphi University.
Prerequisite: None
Recommendation: Child Development
This course provides an in-depth study of the five periods of childhood, from prenatal development through adolescence. Fieldwork at a local elementary school or day care center will be incorporated when possible. Students explore current child development research and findings.

EARLY CHILDHOOD & NURSERY (6050)
Grades 10-12
Half Year, .5 Credit
Prerequisites: Child Development or departmental permission
Students work directly with preschoolers as they operate a nursery school for neighborhood children. Students gain insight into the developmental needs of children as they prepare crafts, snacks, games, stories, self-help, reading readiness, and number concept activities for children in a safe, nurturing environment. This course is a must for all those planning to work with children in their career or share their lives with children.

ADVANCED EARLY CHILDHOOD & NURSERY (6070)
Grades 11-12
Half Year, .5 Credit
Prerequisite: Early Childhood & Nursery
This is an option for students who desire additional experience working with the preschool program. Course requirements and projects will be determined on an individual basis to meet the student's needs and goals.

INTERIOR DESIGN (6115)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
*Note: When Interior Design and Clothing Construction are both selected, they may be used to fulfill the art/music graduation requirement.
This course provides students the opportunity to develop skills in applying the elements and principles of design to interiors and enables the students to explore their creativity. Projects are integrated throughout the course to provide applications of housing styles and trends, furniture styles and placement, design and function of space, green designs, and designing floor plans. A craft unit allows students to create simple crafts for the home. Students will explore the many careers available in this field.

CLOTHING CONSTRUCTION 1 (6090)
Grades 9-12
Half Year, .5 Credit
Prerequisite: Clothing Construction 1
*Note: When Interior Design and Clothing Construction 1 are both selected, they may be used to fulfill the art/music graduation requirement.
This course is open to all who want experience working with fabric using both hand and machine sewing. Students will learn the properties and characteristics of fabric. They will construct a craft project as well as a garment for themselves. Techniques include learning to use a pattern, marking, cutting, fitting, and ironing. Students will learn to sew buttons as well as hem by hand. This is an excellent class for anyone who would like to be able to care for their own clothes as well as those seeking a career in any area of design, as colleges expect students to sew before they can design.

CLOTHING CONSTRUCTION 2 (6095)
Grades 9-12
Half Year, .5 Credit
Prerequisite: Clothing Construction 1
This course will expand on the basic techniques learned in Clothing Construction 1. Projects will incorporate skills learned in the prior course as well as new skills such as sewing in a zipper, setting in a sleeve, and many other pertinent techniques. Two to three construction projects will be completed during the semester. This is a must-have course for any student thinking of pursuing a career in fashion and/or design. It is also a great course for any student who wishes to enhance his or her sewing skills.
Family & Consumer Sciences

**Food & Nutrition**
- Baking
- Chef's Choice 1
- Food Science
  - Chef's Choice 2

**Nursery & Child Development**
- Child Development and/or College Child Development
  - Early Childhood & Nursery
    - Advanced Early Childhood & Nursery

**Home & Personal Management**
- Interior Design
- Clothing Construction
  - Clothing Construction 2
HEALTH (4850)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
This is a one-semester offering concentrating on specific health problems and concerns. Topics include mental health, drug abuse, alcohol, tobacco, consumer health, disease prevention, proper nutrition, and family living. The program is designed to promote health and wellness through healthy decision-making and promotion of a healthy lifestyle. Successful completion is required for graduation.

FIRST AID & CPR (4880)
Grades 10-12
Half Year, .5 Credit
Prerequisite: Health
This course is designed to help students prepare for all first-aid emergencies. Many students will find the course particularly helpful in obtaining summer employment, as Suffolk County requires a CPR certificate for all lifeguards. Teachers involved in the program are certified as American Red Cross instructors and will issue certificates in: A. Standard First Aid and B. Cardiopulmonary Resuscitation.

SPORTS MEDICINE (4875)
Grades 10-12
Half Year, .5 Credit
Prerequisite: Health
Recommendation: Students have taken First Aid & CPR
This course is designed to prepare students with an understanding of the prevention and care of athletic injuries and accidents. This course allows students to begin the study of anatomy and physiology, and kinesiology science. Topics will focus on the prevention, evaluation, and rehabilitation of sports-related injuries. Various health careers related to sports medicine will also be explored. Students interested in pursuing careers in sports medicine, athletic training, physical therapy, occupational therapy, nursing, and physical education would find this course to be a great introduction to their future profession. Future college athletes will also find this course helpful for the prevention and care of personal injuries.

THE REAL WORLD: COLLEGE HEALTH ISSUES (4855)
Grade 12
Half Year, .5 Credit
Prerequisite: Health
This course is designed with the graduating senior in mind. It will explore life outside of high school. Whether it be college or work, this course will be focused on the “real world.” This class will be student-centered. Students will have the opportunity to add to the topics covered by the instructor. Some topics included will be campus life, the interview process, stress management, time management, addictions, relationships, wellness, human sexuality, and social media. Classroom instruction will also focus on resources students can access within the community and online. In a world full of information, it is important for students to be able to access and utilize credible resources in their daily lives.
Health

First Aid & CPR
Sports Medicine
The Real World: College Health Issues
ENGLISH AS A NEW LANGUAGE
Full Year, 1 Credit
ENL 9 (0951)
ENL 10 (0952)
ENL 11 (0953)
ENL 12 (0954)
Content Support
Full Year, No Credit
ENL (0960)
These courses are designed to help English language learners gain competency in English as it is used in daily life and an academic setting. All coursework focuses on strengthening the students’ speaking, listening, writing, and reading abilities. Intensive English language instruction is provided through the five instructional levels: entering (beginning), emerging (low-intermediate), transitioning (intermediate), expanding (advanced), and commanding (proficient). A student’s initial level is determined by a placement test when he or she enters the program. Assessment of yearly progress and placement decisions are based on student performance on the NYSESLAT examination given in the spring. An ENL approach is used during an additional support period to assist students with vocabulary and concepts of content area subjects, such as English, social studies, science, math, etc.

WORLD LANGUAGES
Each language course (or level) bears one (1) credit. To graduate with a Regents diploma, all students must pass either both seventh and eighth grade language courses and a regionally developed Checkpoint A assessment at the end of grade 8, called the FLACS A Exam; OR a Level 1 language course in high school. The only students who do not have to fulfill this graduation requirement are special education students with an IEP listing a language disability and a language exemption.

By passing a Level 3 course and a new regionally developed Checkpoint B examination, the FLACS B Exam, students become eligible for a Regents Diploma with Advanced Designation.

REGIONALLY DEVELOPED EXAMINATIONS
Students enrolled in a Level 3 language course must take the FLACS B Exam at the end of the course.

The Checkpoint B Exam is counted as the final exam for the course.

Languages Offered
French, German, Italian, and Spanish are offered from Levels 1-5. College courses are offered in Levels 3-5. The use of instructional technology is integrated throughout the program.

LEVEL 1 LANGUAGE
Grades 9-12
Full Year, 1 Credit
Prerequisite: None
French 1 (4510)
German 1 (4580)
Italian 1 (4640)
Spanish 1 (4720)
These are beginning courses to meet the needs of students who are new entrants or who did not successfully complete their language requirement by the end of grade 8. Those who wish to begin a second foreign language may enroll in these courses if there is sufficient room. All Level 1 language courses build foundation skills in speaking, listening, reading, and writing in the target language and enable the student to attain New
York State’s Checkpoint A level of proficiency. This is a graduation requirement for all students who have no language exemption on an IEP. These courses provide a firm base so that those students who continue their study of languages can take the regionally developed FLACS B examination. Dual language students (studying two or more languages) with an A average in the Level 1 course of their second foreign language may proceed from Level 1 to Level 3 upon recommendation of the Level 1 teacher and departmental approval.

LEVEL 2 LANGUAGE
Grades 9-12
Full Year, 1 Credit
Prerequisite: Level 1 or Grade 7/8
French 2 (4520)
German 2 (4590)
Italian 2 (4650)
Spanish 2 (4740)

Students will be expected to attain a higher degree of proficiency in communicative skills - speaking, listening, reading, and writing - through the use of a variety of materials, including authentic items and the internet. They will also continue their study of the culture of the target language. These courses introduce the students to the Checkpoint B level of the New York State curriculum, which will be completed in Level 3.

LEVEL 4 LANGUAGE
Grades 11-12
Full Year, 1 Credit
Prerequisite: Level 3
All courses are taught primarily in the target language.
French 4, German 4, Italian 4 and Spanish 4 students have the option of receiving 4 college credits through Stony Brook University.

Students who opt for this credit must enroll online in the Stony Brook University ACE Program and pay the reduced tuition by the deadline established by that institution.

FRENCH 4 (4550)
College credit option

This advanced course introduces the students to the history, art, literature, and culture of France, as they strengthen and enhance their knowledge of the French language. Students learn of legendary French heroes, such as Charlemagne and Jeanne d’Arc, and explore the beautiful gothic cathedrals and medieval chateaux found throughout France. Reading and writing skills will be improved through the use of authentic materials, such as newspapers, magazines, selections from French literature, and the internet. Throughout the year, students will complete oral and written assignments in the form of projects, which will allow them to use their language and presentation skills. Students will be required to use French to communicate in class. Appropriate field trips may be planned. Level 4 introduces students to the Checkpoint C level of proficiency.

GERMAN 4 (4610)
College credit option

In this course, students will develop a greater understanding of the history, geography, literature, art, and culture of Germany through the use of the target language. Students will continue to develop their auditory and oral skills through various individual and group projects, which will give them the
chance to demonstrate their proficiency in the target language. Reading and writing skills will be improved through the use of authentic materials, such as newspapers, magazines, selections from German literature, and the internet. Students will be required to use German to communicate in class. Appropriate field trips may be planned. Level 4 introduces students to the Checkpoint C level of proficiency.

ITALIAN 4 (4670)
College credit option
Italian 4 is an advanced-level course where the students will develop a greater understanding of the cultural aspects of Italy and Italian life through the use of the Italian language. Students will learn about the geography, literature, art, music, and general culture of Italy. Students will continue to develop their auditory and oral skills through various individual and group projects, which will give them the chance to demonstrate their proficiency in the target language. Reading and writing skills will be improved through the use of authentic materials, such as newspapers, magazines, selections from Italian literature, and the internet. Students will be required to use Italian to communicate in class. Appropriate field trips may be planned. Level 4 introduces students to the Checkpoint C level of proficiency.

SPANISH 4 (4760)
College credit option
Spanish 4 is an advanced-level course about the culture of the Hispanic world. This course is taught primarily in Spanish. Students will use their skills in Spanish to listen, read, write, and speak in the language. Topics covered are the geography, history, and culture of Hispanic countries, Spanish art and artists, and famous works of Hispanic literature. Appropriate vocabulary and grammatical topics will be reviewed as they relate to each topic. Reading and writing skills will be improved through the use of authentic materials, such as newspapers, magazines, selections from Spanish literature, and the internet. Students will be required to use Spanish to communicate in class. Appropriate field trips may be planned. Level 4 introduces students to the Checkpoint C level of proficiency.

FRENCH 5 (4560)
College credit option
This course is designed to further develop communication skills in French, while at the same time continuing to examine modern-day francophone life and culture. To work toward oral and written fluency in French, students will participate in presentation, conversation, and comprehension activities and will study a variety of cultural and literary readings that will help them expand their ability to use French. Cultural themes will cover the media in France, including its cinema, press, and television, as well as an examination of the French educational system. Students will also study the political and historical structures of French society today, including major cities like Paris. In addition, course objectives will be met through the use

LEVEL 5 LANGUAGE
Grade 12
Full Year, 1 Credit
Prerequisite: Level 4
College French, Italian, German, and Spanish students have the option of receiving 3 college credits through Stony Brook University. Students who opt for this credit must enroll online in the Stony Brook University ACE program and pay the reduced tuition by the deadline established by that institution. College courses follow the curriculum and requirements approved by the participating college or university. They enable students to complete New York State’s Checkpoint C level of proficiency in the target language. College credit will only be granted if the student completes the college application, submits it with the tuition payment before the due date established by the college, and attains the minimum grade set by the institution. Enrollment is normally limited to high school seniors who have successfully completed the corresponding Level 4 course. High school juniors may enroll if they have completed the corresponding Level 4 course, received a recommendation from their Level 4 teacher, and have received departmental approval.
of information and communication technologies to enhance critical thinking skills. Students will be expected to collaborate and will be encouraged to problem-solve as they learn about the global aspects of modern society in France and francophone countries. This course is conducted in French.

**ITALIAN 5 (4680)**

**College credit option**

This course is designed to further develop the four skill areas of listening, speaking, reading, and writing in Italian through intensive practice, class discussions, compositions, and literary and cultural readings. Emphasis will be on the communicative skills in Italian, the cultural aspects of Italian life, and Italy’s role in the global community. The course will focus on topics that promote contemporary cultural awareness of Italy such as music, film, art, customs, history, literature, the economy, and fashion. Grammatical points are presented within the context of cultural and historical topics. Students will be expected to collaborate and will be encouraged to problem-solve in the target language to enhance critical thinking skills. Course objectives will be met through the use of information and communication technologies. This course is conducted in Italian.

**SPANISH 5 (4770)**

**College credit option**

This course enables students to further the development of all four skill areas in Spanish: listening, speaking, reading, and writing. Emphasis is placed on the development of speaking skills and of better aural comprehension. In addition, cultural awareness is developed through the use of authentic materials, literature, the internet, and other resources. Course objectives will be met through the use of information and communication technologies to enhance critical thinking skills. Basic grammatical structures and usage are reviewed, and more sophisticated ones are introduced. Students will have many opportunities to increase their level of writing proficiency. Topics include fables, various short stories, cooking, fashion, film, television, and contemporary issues. As students progress from the fall to the spring semester, the material in all skill areas moves from the simple to the more complex. Students will be expected to collaborate and will be encouraged to problem-solve in the target language. This course is conducted in Spanish.

**CULTURE THROUGH FILM**

Grade 12
Full Year, 1 Credit
French (4575)
German (4635)
Italian (4695)
Spanish (4785)

**Prerequisite: Level 4 Language**

This full-year course is a post-Level 4 language course for seniors only. In this course students apply the knowledge and skills gained throughout the previous years of language and literature study to view, analyze, and discuss thematic content of selected movies. The course introduces students to the different genres, and students focus on aspects of culture as portrayed through film. They also study the evolution of the art of cinema. The goals of the class are twofold: to help students develop ease and fluency in discussing their opinions on the films, both in speaking and in writing, and to help them to develop a greater appreciation of culture through film.
Languages

Grade 7
Level 1

Grade 8
Level 1 (FLACS A)

Grade 9
Level 2

Grade 10
Level 3 (FLACS B)
College Level 100 Course
4 credits through Stony Brook University

Grade 11
Level 4
College Level 100 Course
4 credits through Stony Brook University

Grade 12
Level 5
College Level 200 Course
3 credits through Stony Brook University

Note: Students starting a new or second language will begin with a Level 1 course unless beginning proficiency levels can be demonstrated.

Electives

Culture through Film
Mathematics Courses

ALGEBRA 1 (3170)
Grade 9
Full Year, 1 Credit
Prerequisite: Math 8
Recommendation: Math 8 with a grade of at least B
This is the first course of the high school Regents mathematics courses. It is a one-year course which meets the New York State Learning Standards. This course emphasizes skills and processes to enable students to successfully solve problems in different settings. The focal point of the course is algebra: solving linear equations, quadratic equations, systems of equations, graphing lines and parabolas, and work with functions. Students take a midterm and the Regents exam in June. The Regents exam grade counts as one-ninth of the overall course grade and is a graduation requirement.

ALGEBRA 1 (3170RE)
Grade 9
Full Year, 1 Credit
7.5 Periods/Week
Prerequisite: Math 8
This course follows the same curriculum as Algebra 1 but includes additional class time as it meets for double periods on alternate days. The course requires the use of a graphing calculator, which is provided by the school. Students will take a midterm and the Regents exam in June. The Regents exam grade counts as one-ninth of the overall course grade and is a graduation requirement.

GEOMETRY HONORS (3280)
Grades 9-10
Full Year, 1 Credit
Prerequisite: Algebra 1
Recommendation: Algebra 1 (grade 8) with a grade of at least B+ or Algebra 1 (grade 9) with a grade of at least A
This course is the first of our honors program. The course is enriched with select advanced topics. Problem-solving skills, creative thinking, and real-life applications are explored. Students are expected to participate in various mathematics competitions and research. The course includes geometric relationships, constructions, locus, informal and formal proofs, transformational geometry, coordinate geometry, and trigonometry. This course requires the use of a graphing calculator, which is provided by the school. Students take a midterm and the Regents exam in June. The Regents exam grade counts as one-ninth of the overall course grade.

GEOMETRY (3270)
Grades 9-10
Full Year, 1 Credit
Prerequisite: Algebra 1
Recommendation: Algebra 1 with a grade of at least B
This is the second course of the high school Regents mathematics courses. It is a one-year course which meets the New York State Learning Standards. The course emphasizes conceptual understanding and problem-solving abilities rather than assessing knowledge of isolated skills and facts. The course includes geometric relationships, constructions, locus, informal and formal proofs, transformational geometry, coordinate geometry, and trigonometry. This course requires the use of a graphing calculator, which is provided by the school. Students take a midterm and the Regents exam in June. The Regents exam grade counts as one-ninth of the overall course grade.

GEOMETRY (3270RE)
Grades 9-10
Full Year, 1 Credit
7.5 Periods/Week
Prerequisite: Algebra 1
Recommendation: Algebra 1 with a grade between C- and B- or Algebra 1RE with a grade of at least B
This course follows the same curriculum as Geometry but includes additional class time as it meets for double periods on alternate days. This course requires the use of a graphing calculator, which is provided by the school. Students take a midterm and the Regents exam in June. The Regents exam grade counts as one-ninth of the overall course grade.

**PRINCIPLES OF GEOMETRY**  
(3275)  
Grade 10  
Full Year, 1 Credit  
Prerequisite: Algebra 1  

This is a one-year course that covers select topics from the Geometry R curriculum but with less emphasis on formal proof. This course includes geometric relationships, constructions, informal proofs, and coordinate geometry. Students will use the graphing calculator, which is provided by the school, as well as other dynamic software (e.g., geometer's sketch pad). There are four quarterly exams in this course. Students enrolled in this course do not take the NYS Regents examination in Geometry.

**ALGEBRA 2 HONORS (3310)**  
Grade 10  
Full Year, 1 Credit  
Prerequisite: Geometry Honors or Geometry  
Recommendation: Geometry Honors with a grade of at least B+ or Geometry with a grade of at least A  

This course is the second year of our honors program, which begins in ninth grade. It is a one-year course which meets the New York State Learning Standards. The course emphasizes conceptual understanding and problem-solving abilities rather than assessing knowledge of isolated skills and facts. The course includes the study of real and complex numbers; solving and applying polynomial, rational, and radical equations; exploration of trigonometric, exponential and logarithmic functions and their applications; the relation of the geometric series to finance; the use of probability; and modeling data distributions to draw conclusions. This course is also enriched with selected advanced topics. This course requires the use of a graphing calculator, which is provided by the school. Students take a midterm and the Regents exam in June. The Regents exam grade counts as one-ninth of the overall course grade.

**ALGEBRA 2 (3300)**  
Grades 10-11  
Full Year, 1 Credit  
Prerequisite: Geometry Honors or Geometry  
Recommendation: Geometry with a grade of at least B  

This is the third and final course of the high school Regents mathematics courses. It is a one-year course which meets the New York State Learning Standards. The course emphasizes conceptual understanding and problem-solving abilities rather than assessing knowledge of isolated skills and facts. The course includes the study of real and complex numbers; solving and applying polynomial, rational, and radical equations; exploration of trigonometric, exponential, and logarithmic functions and their applications; the relation of the geometric series to finance; the use of probability; and modeling data distributions to draw conclusions. This course requires the use of a graphing calculator, which is provided by the school. Students take a midterm and the Regents exam in June. The Regents exam grade counts as one-ninth of the overall course grade.

**FOUNDATIONS IN ADVANCED ALGEBRA (3290)**  
Grades 10-12  
Full Year, 1 Credit  
Prerequisite: Geometry Honors or Geometry  
Recommendation: Geometry RE with a grade of at least C-  

This is a one-year course which meets the NYS Learning Standards. The course is designed to build on algebraic and geometric concepts learned in previous math courses. It will develop and master advanced algebraic skills such as solving systems of equations, understanding properties of higher-degree polynomials including roots and end behavior, exploring exponential and rational functions algebraically and graphically, and drawing conclusions using probability. This course will also introduce higher-level mathematics such as matrices and complex fractions. This course requires the use of a graphing calculator, which is provided by the school. Students take a midterm and the Regents exam in June. The Regents exam grade counts as one-ninth of the overall course grade.
calculator which is provided by the school. Students are required to take a midterm and final examination. Students who successfully complete this course will be eligible to take Functions and Statistics or Algebra 2.

**INTERMEDIATE ALGEBRA 1**

*3122*

**Grades 11-12**

**Full Year, 1 Credit**

*Prerequisites Geometry or Principles of Geometry*

Using the graphing calculator, students will continue to explore mathematical concepts while strengthening their algebraic skills. Topics include real-life applications in the areas of advanced algebra, exponential and logarithmic functions, and statistics. Students will complete four projects and take four quarterly exams.

**MATH 11 HONORS (3110)**

*Grade 11*

**Full Year, 1 Credit**

*Prerequisite: Algebra 2 Honors or Algebra 2*

*Recommendation: Algebra 2 Honors with a grade of at least B*

This course is designed to prepare students for the Advanced Placement Calculus BC class taken in their senior year. A rigorous approach to calculus with some precalculus is studied. Topics include limits continuity, the derivative and its applications, curve sketching. The graphing calculator will be used at select points in this course.

**FUNCTIONS & STATISTICS**

*3125*

**Grade 12**

**Full Year, 1 Credit**

*Prerequisite: Algebra 2 Honors or Algebra 2*

*Function and Statistics includes precalculus concepts such as circular functions, rational functions, logarithmic functions, matrices, family of functions, and transformations. The course will also expose students to some elements of a college statistics course, including regression models and normal and binomial distributions.*

**AP CALCULUS BC (3175)**

*Grade 12*

**Full Year, 1 Credit**

*Prerequisite: Math 11 Honors*

*Recommendation: Math 11 Honors with a grade of at least B+*

This is a rigorous course in calculus and is equivalent to a full year of college calculus. Topics include methods of integration (by parts and partial fractions), L’Hospital’s rule, improper integrals, polynomial approximations, sequences and series, tests for convergent and divergent series, Taylor series, McLaurin series, parametric equations, and polar equations. The graphing calculator will be used extensively. All students will take the Advanced Placement Calculus BC exam.

**AP CALCULUS AB (3150)**

*Grade 12*

**Full Year, 1 Credit**

*Prerequisite: Math 11 Honors or Introduction to Calculus*

*Recommendation: Introduction to Calculus with a grade of at least A*

This course will include a study of limits continuity, theory and techniques of differentiation, related rate problems, maximum/minimum applications, trigonometric function and their derivatives, approximations by use of differentials, the fundamental theorem of calculus, the definite and indefinite integral, areas under the curve, curve sketching, volumes of revolution, and techniques of integration. Special emphasis is given to algebraic skills. Topics include real-life applications in the areas of advanced algebra, exponential and logarithmic functions, trigonometry, conic sections, and statistics. Students will complete four projects and take four quarterly exams.
exponential and logarithmic functions and their applications. The graphing calculator will be used extensively. All students will take the Advanced Placement Calculus AB exam.

**CALCULUS (3140)**
Grade 12
Full Year, 1 Credit
*Prerequisite: Math 11 Honors or Introduction to Calculus*

Calculus serves as a powerful tool in the solution of many complex technological problems that arise in physics, engineering, chemistry, and other related fields. Topics include real numbers, introduction to analytic geometry, functions, limits and continuity, the derivative, applications of the derivative, antidifferentiation, and the definite integral. This course gives an overview of a typical first-semester college calculus course. The graphing calculator will be used extensively.

**AP STATISTICS (3127)**
Grades 10-12
Full Year, 1 Credit
*Prerequisites: Geometry Honors or Geometry*

Recommendation: Geometry with a grade of at least B

AP Statistics is a rigorous course. Students need to be good readers and writers, as well as have an appropriate math background. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns using probability and simulation, and statistical inference. Students who plan to take an AP science course in their senior year will benefit greatly from AP Statistics in their junior year. At least one statistics course is typically required for college majors such as engineering, psychology, sociology, health science, and business. Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college statistics course. This course can be taken concurrently with Algebra 2 Honors, Math 11 Honors, Introduction to Calculus, Calculus, and AP Calculus.

**INTRODUCTION TO COMPUTER SCIENCE (3240)**
Grades 10-12
Full Year, 1 Credit
*Prerequisite: Introduction to Computer Science*

This course is comparable to a first-year course in a college or university computer science department. The major emphasis is on programming methodology, algorithms, and data structures. Applications are used to develop student awareness of the need for particular algorithms and data structures, as well as to provide topics for programming assignments to which students can apply their knowledge. A particular programming language constitutes the vehicle for implementing computer-based solutions to particular problems. Treatments of computer systems and social implications of computing are integrated into the course.
Mathematics

Algebra 1

Principles of Geometry

Geometry or Geometry Honors

Intermediate Algebra 1

Foundations in Advanced Algebra

Algebra 2 or Algebra 2 Honors

Intermediate Algebra 2

Functions & Statistics

AP Calculus AB

Math 11 Honors

Introduction to Calculus

AP Calculus BC

Calculus

Electives

AP/PLTW Computer Science Principles

Introduction to Computer Science

AP Statistics

AP Computer Science
CONCERT CHOIR (7710)
Grades 9-12
Full Year, 1 Credit
Prerequisite: None
Recommendation: Prior musical experience is beneficial.
Open to all students whose skill level meets the criteria necessary for success at the high school level. This is a musical group devoted to the study of advanced choral literature. Members meet each day for an ensemble rehearsal. Attendance is required at one additional rotating lesson period each week.

TREBLE CHOIR (7715)
Grades 9-12
Full Year, 1 Credit
Prerequisite: None
Recommendation: Prior musical experience is beneficial.
Open to all grade 9-12 students whose vocal range is in the soprano or alto range. This is a musical group devoted to the study of advanced choral literature. Members meet each day for an ensemble rehearsal. Attendance is required at one additional rotating lesson period each week. If this course is not offered, students requesting this course will be enrolled in Concert Choir instead.

SYMPHONIC BAND (7670)
Grades 10-12
Full Year, 1 Credit
Prerequisites: The ability to perform upper-level high school music on a band instrument. Audition required. Departmental permission is necessary. Balanced instrumentation is also taken into consideration.
This musical group is devoted to the study and performance of the most advanced wind-band music. Members meet each day for an ensemble rehearsal. Attendance is required at one additional rotating lesson period each week.

MUSIC THEORY (7720)
Grades 9-12
Full Year, 1 Credit
Prerequisite: None
Recommendation: Previous instruction or experience in music.
This course deals solely with the mechanics of music and is designed to provide the student with a thorough understanding of everything on the musical written page. It will include all major and minor keys and scales, all phases of rhythm, sight-reading, interval and chord reading, melodic and rhythmic dictation, and the beginnings of analysis in four-part writing. This course will thoroughly prepare the student for any future involvement with music, whether or not music is chosen as a career.

AP MUSIC THEORY (7730)
Grades 10-12
Full Year, 1 Credit
Prerequisite: Music Theory or departmental permission
The curriculum is one that follows the College Board Advanced Placement Program syllabus. The course is designed to cover the scope of work that would be equivalent to a first-year college course in music theory. Students will develop the ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score through ear training, sight singing, analysis, composition, and rhythmic studies. All students accepted into this program will be expected to take the Advanced Placement examination.
Music

Performing Ensembles

Concert Choir or Treble Choir

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Concert Band

↓

Symphonic Band

↓

Concert Orchestra

↓

Symphonic Orchestra

Music Theory

Music Theory

↓

AP Music Theory
PHYSICAL EDUCATION 9 (8000)
Full Year, Alternate Days, .5 Credit
Prerequisite: None
The ninth-grade physical education curriculum is a program designed to improve physical well-being, social skills, and behavior in students through structured activities. Students will experience designed activities and basic cross fit training principles that will promote movement concepts, advance motor skills, improve core strength, and enhance fitness levels. Additionally, self-confidence, self-esteem, leadership skills, communication skills, mutual support, respect toward differences, and the ability to formulate and achieve goals will be targeted through the structured activities.

PHYS ED 10-12 GRADE PROGRAM
Full Year, Alternate Days, .5 Credit
Prerequisite: None
The grade 10-12 program is designed to foster lifetime wellness awareness, increase fitness, and broaden healthy lifestyle choices. Special attention will be given to the development of cardiovascular endurance, muscular strength, and flexibility. Student health and wellness will be explored and developed. Emphasis on fitness is enhanced and improved. The units will guide students’ knowledge of fitness concepts as well as the understanding and need to lead a healthy lifestyle. Guided instruction will include units in net sports, project adventure activities, step aerobics, and wellness-associated activities.

Students will be able to select from a list of courses to complete their physical education experience. This program is designed progressively and will guide students in their pursuit of leading a healthy lifestyle. The pursuit of lifetime fitness is strengthened and enhanced. Students will have an understanding of components and resources available to them as well as the knowledge to establish and direct their own personal fitness program. These electives encompass higher-level strategies, processing, and the application of skills. Fitness is an integral aspect in all of these electives.

Students must select different courses for each year. Courses to choose from are listed below.

TEAM SPORTS (8700)
Prerequisite: None
This course is designed to improve skill acquisition in the sports of football, soccer, volleyball, basketball, softball, team handball, and ultimate frisbee. Other team sports may be substituted or added due to enrollment, facility space, etc. Students will be involved with organizing and participating in small-sided games with the focus on developing the necessary skills needed to become successful at these sports. Sport-specific conditioning exercises will be completed daily. Team-building concepts will be developed and discussed.

LIFETIME SPORTS (8720)
Prerequisite: None
This course is designed to provide knowledge and improve skills in sports that can be participated in for a lifetime. Students will receive basic instruction in archery, badminton, tennis, volleyball, and golf. Both individual and team competitions will be organized.

Conditioning and lifelong fitness will be emphasized and explored in relation to these sports.

MOVEMENT & EXPLORATION (8790)
Prerequisite: None
Explore movement through creative dance, hatha yoga, karate, self-defense, and aerobic and anaerobic conditioning exercises. Students will receive valuable information regarding heart rate monitoring, nutrition, fitness principles, stress relief, and anatomy.

PERSONAL FITNESS (8750)
Prerequisite: None
This course is designed to improve the physical fitness level of individuals. Through anaerobic and aerobic conditioning exercises, students will learn how to monitor their progress during a specific workout plan geared towards their needs. Nutrition, anatomy, fitness principles, and various training methods will be discussed, incorporated, and tested. Students will gain knowledge that will allow them to monitor themselves outside of school.

ADVENTURE EDUCATION (8785)
Grade 12 Only
Prerequisite: None
This adventure course will explore various warm-up games, trust-building exercises, group initiatives, and problem-solving activities. The students will develop the necessary skills needed to complete the low- and high-challenge course. Leadership and communication skills will be enhanced through team-building activities.
Physical Education

Grade 9

Grade 10

Grade 11

Grade 12

Physical Education 9

Lifetime Sports

Movement & Exploration

Personal Fitness

Team Sports

Adventure Education (Grade 12 only)
EARTH SCIENCE (4010)
Grades 9-12
Full Year, 1 Credit
7.5 Periods/Week
Prerequisite: None
This lab course is based on the activities and content specified in the New York State Earth Science syllabus. It is an interdisciplinary program that applies many of the topics of physics, biology, chemistry, and mathematics studied in earlier grades. The Earth science course culminates in a Regents exam.

PROJECT PHYSICAL WORLD (4005)
Grades 9-12
Full Year, .5 Credit
2.5 Periods/Week
Recommendation: Departmental placement
Co-requisite: Earth Science
This course is designed to provide students with the opportunity to investigate selected physical science topics that will enhance their understanding of concepts in Earth science. Hands-on activities are an integral component of the class. Students are encouraged to identify topics within the physical world that they would enjoy researching.

SCIENCE 9 HONORS (4020)
Grade 9
Full Year, 1 Credit
7.5 Periods/Week
Summer Assignment Required
Prerequisite: Algebra 1, and Science 8 or Biology
This lab course is designed for students who have demonstrated high academic ability and are willing to accept the demands of a particularly rigorous course of study. Students conduct investigative laboratory and field projects associated with physical and historical geology, astronomy, weather, and climate. In addition to covering the Earth Science syllabus, selected topics of biology, chemistry, and physics are studied around central MST themes. Science 9 Honors pupils are expected to complete the Regents examination in Earth science and to complete two long-term investigations.

PROJECT LIVING WORLD (4045)
Grades 10-12
Full Year, .5 Credit
2.5 Periods/Week
Recommendation: Departmental placement
Co-requisite: Biology
This course is designed to provide students with the opportunity to investigate selected topics in biology that will enhance their experience in the Living Environment course. Hands-on activities are an integral component of the class. Students are encouraged to identify biological concepts that they would enjoy researching.

BILOGY (4050)
Grades 10-12
Full Year, 1 Credit
7.5 Periods/Week
Prerequisite: Science 9 Honors or Earth Science
In biology, as well as in other science courses, the laboratory is where students study biological concepts and develop scientific skills. Although the subject matter is interrelated, discrete units may be identified. These are evolution, modern genetics, reproduction, plant and animal development, heredity, life processes in plants and animals, and ecology. The course concludes with the Living Environment Regents examination.

AP BIOLOGY (4060)
Grade 10
Full Year, 1 Credit
10 Periods/Week
Prerequisite: Science 9 Honors or Earth Science
Recommendation: Earth Science with a grade of at least A or Science 9 Honors with a grade of at least B+
Sophomore students who are accepted into this rigorous program will take 10 periods of college-level biology per week. The Advanced Placement syllabus will be followed. A college text, study guide, outside readings, lectures, discussions, and laboratory activities will be utilized in this course. By mid-May the students are prepared for and are required to sit for the Advanced Placement examination in Biology. Students who have not taken Living Environment (Biology) 4050 are required to take the Living Environment Regents examination administered in June.

CHEMISTRY (4100)
Grades 11-12
Full Year, 1 Credit
7.5 Periods/Week
Prerequisite: AP Biology or Biology
Co-requisite: Algebra 2 Honors or Algebra 2
Recommendation: Biology with a grade of at least B
This is an introductory chemistry course that addresses atomic concepts, nuclear chemistry, the periodic table, nomenclature, chemical bonding, solutions, kinetics/equilibrium, acids, bases and salts, oxidation-reduction, and
organic chemistry. The course involves hands-on experimentation and problem-solving. The course culminates in a statewide Regents examination.

AP CHEMISTRY (4120)
Grade 12
Full Year, 1 Credit
10 Periods/Week
Prerequisite: AP Physics 1, Physics, or Chemistry
Recommendation: AP Physics 1 with a grade of at least B+, Physics with a grade of at least A, or Chemistry with a grade of at least A
This course is designed for those pupils who have demonstrated achievement and interest at a level well above average in both mathematics and science. Emphasis is on the basic principles of chemistry, often described quantitatively, and often derived from the laboratory experience. Instruction is on the college level, and by mid-May students are prepared for, and are required to sit for, the Advanced Placement examination in Chemistry. They will also sit for the Chemistry Regents examination administered in June. Students are encouraged to take the SAT II in chemistry on the first Saturday of June.

PHYSICS (4080)
Grades 11-12
Full Year, 1 Credit
5 Periods/Week
Prerequisite: AP Biology or Biology
Co-requisite: Algebra 2 Honors or Algebra 2
Recommendation: Algebra 1 with a grade of at least B+ and Biology with a grade of at least A
This course is a study of motion, heat, waves, sound, optics, electricity, electronics, and nuclear energy. Recitation classes and a comprehensive laboratory program develop concepts. Basic mathematical, trigonometric, and algebraic skills are necessary for student mastery of many of the topics. This course culminates in a Regents examination.

AP PHYSICS 1 (4091)
Grades 11-12
Full Year, 1 Credit
10 Periods/Week
Prerequisite: AP Biology or Biology
Co-requisite: Math 11 Honors or Introduction to Calculus
Recommendation: Biology with a grade of at least A or AP Biology with a grade of at least B+, and Algebra 2 with a grade of at least B+
This course is designed for 11th- and 12th-graders who have demonstrated achievement and interest at a level well above average in both mathematics and science. AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion) work, energy, and power; mechanical waves and sound; and introductory simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. By mid-May the students are prepared for and are expected to sit for the Advanced Placement examination in AP Physics 1. They will also sit for the Physics Regents Examination administered in June.

AP PHYSICS 2 (4092)
Grade 12
Full Year, 1 Credit
5 Periods/Week
Prerequisite: AP Physics 1
AP Physics 2 is the second year of a two-year progression of algebra-based, introductory college-level physics. AP Physics 2 explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. By mid-May, the students are expected to sit for the Advanced Placement examination in AP Physics 2.

AP PHYSICS WITH CALCULUS (4110)
Grade 12
Full Year, 1 Credit
5 Periods/Week
Prerequisite: AP Physics 1
Co-requisite: AP Calculus AB or AP Calculus BC
This is a second-level AP Physics course especially appropriate for students planning to major in physical science, computer science, or engineering. The course is equivalent to two semesters of calculus-based, college-based physics. The course explores topics such as kinematics; Newton’s laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations and gravitation; electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course. By mid-May the students are prepared for and are expected to sit for the Advanced Placement examinations in both AP Physics C: Mechanics and for AP Physics C: Electricity and Magnetism.

ENVIRONMENTAL SCIENCE (4180)
Grades 11-12
Half Year, .5 Credit
5 Periods/Week
Prerequisite: AP Biology or Biology
This course presents students with real-life environmental issues and concerns. It is designed to encourage and challenge students to think about practical solutions to these concerns. The six core areas of study are ecology, air, food, aquatic systems, water, and energy. Emphasis will be placed on understanding the major scientific principles behind how our environment works and the impact society is having on the environment.

TOPICS IN SCIENCE (4147)
Grades 11-12
Half Year, .5 Credit
5 Periods/Week
Prerequisite: AP Biology or Biology
This course will present many current issues from the fields of environmental science, medicine, biology, chemistry, and physics. The course is a non-Regents science course that meets five days per week. Class discussions, projects, labs, and outside speakers will be incorporated into the course. Come and learn about yourself and our constantly changing world.

OCEANS (4260)
Grades 11-12
Full Year, 1 Credit
OCEANOGRAPHY (4265)
3 College Credits Available Through Stony Brook University
5 Periods/Week
Prerequisites for 4260: Science 9 Honors or Earth Science, AP Biology or Biology, and passing grade on Living Environment Regents examination
Prerequisite for 4265: Cumulative B average
This full-year course meets five periods per week and will provide hands-on experience via lab and field work. The topics addressed include the characteristics of the abiotic marine environment, the interdependence of the abiotic factors (geological, physical, and chemical) to biological processes, and marine diversity. Eligible students may elect to obtain three college credits. Total cost is approximately $250 for the Stony Brook course credit.

MARINE ECOLOGY (4270)
Grades 11-12
Full Year, 1 Credit
LONG ISLAND SOUND: SCIENCE & USE (4275)
3 College Credits Available Through Stony Brook University
5 Periods/Week
Prerequisite for 4270: Science 9 Honors or Earth Science, AP Biology or Biology, and passing grade on Living Environment Regents examination
Prerequisite for 4275: Cumulative B average
The focus of this course is the study of marine communities and the complex interrelationships of marine life. The beneficial and deleterious interactions between humans and the marine world, especially as they apply to Long Island Sound, will be studied. The fact that the futures of each living community are permanently intertwined will be an important topic of discussion. Eligible students may elect to obtain three college credits for this course. Total cost is approximately $250 for the Stony Brook course credit.

AP ENVIRONMENTAL SCIENCE (4191)
Grades 11-12
Full Year, 1 Credit
7.5 Periods/Week
Prerequisite: AP Biology or Biology Recommendation: Biology with a grade of at least B+
Environmental science is an interdisciplinary science that embraces a variety of topics in biology, geology, chemistry, and physics, as well as economics, politics, and ethics. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. These principles will be applied to identifying and analyzing environmental problems both natural and human-made, evaluating the relative risks associated with these problems, and examining alternative solutions for resolving or preventing them. Students take the AP Environmental Science exam in May.

SCIENCE & TECHNOLOGY RESEARCH PROGRAM
Grades 10-12
Prerequisite: Departmental approval required
Grade 10
(4247) Full Year -.5 Credit/Alternating Days
(4233) Full Year - 1 Credit
5 Periods/Week
Grade 11
(4248) Full Year -.5 Credit/Alternating Days
(4234) Full year - 1 Credit
5 Periods/Week
Grade 12
(4249) Full year -.5 Credit/Alternating Days
(4235) Full year - 1 Credit
5 Periods/Week
Research students learn methodology in natural and social sciences by accessing scientific databases, using online bibliographic search techniques, and consulting doctoral-level research scholars. Students develop hypotheses and perform experiments to test them. Writing research papers and making presentations at scientific symposia are an integral component of the course. Throughout the program, emphasis is placed upon performing experiments in consultation with mentors. Research projects will be entered into local, regional, and national competitions. Placement in a Summer Research Experience is required.

ASTRONOMY (4305)
Grades 11-12
Half Year, .5 Credit
Prerequisite: AP Biology or Biology, and passing grade on Living Environment Regents examination
This course is designed to introduce students to the principles governing the planets, galaxy, and universe. The course will concentrate on the history of astronomy, our local solar system including the properties of the planet and their satellites, and the recognition of the classic constellations. Additional topics may also include the concepts of modern astronomy and the methods used by astronomers to learn more about the universe. Laboratory activities may be used to enhance learning.

APPRISITIONS OF BIOMEDICAL SCIENCE (4320)
Grades 10-12
Full Year, 1 Credit
Members of the class may elect to take the course for 3 college credits from the Missouri University of Science and Technology
Prerequisite: Science 9 Honors or Earth Science, and passing grade on Earth Science Regents examination
Co-requisite: AP Biology or Biology Principles of Biomedical Science (PBS) provides an introduction to biomedical science through exciting hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They will determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged the woman’s life and demonstrate how the development of disease is related to changes in human body systems. The activities and projects in PBS introduce students to human physiology, basic biology, medicine, and research processes and allow students to design experiments to solve problems. Students are provided the opportunity to receive three credits from the Missouri University of Science and Technology after earning a score of at least a 6 on the end-of-course examination and meeting the minimum course average requirement set by the college. While receiving the college credits is optional, students interested in receiving these credits will be charged a fee by the college.

RESEARCH PROGRAM
SCIENCES & TECHNOLOGY
PLTW PRINCIPLES OF
Science

**Grade 8**
- Biology

**Grade 9**
- Science 9 Honors
  - Earth Science
    - Earth Science and Project Physical World

**Grade 10**
- AP Biology

**Grade 11**
- AP Physics 1 or AP Environmental Science

**Grade 12**
- AP Chemistry or AP Physics 2 or AP Physics with Calculus or AP Environmental Science
  - Chemistry or Physics or PLTW Principles of Biomedical Science or Oceans or AP Environmental Science or Marine Ecology
  - Environmental Science or Topics in Science

**Science & Technology Research Program**

10th Grade / 11th Grade / 12th Grade

**Electives**
- Astronomy
- PLTW Principles of Biomedical Science
SOCIAL STUDIES PROGRAM
The Social Studies program offers an extensive variety of courses to ensure students become knowledgeable, empathetic, and informed citizens of their community and the rapidly changing world around them. To meet these goals, students will engage in deep reading of primary and secondary sources, learn chronological reasoning skills, develop the ability to analyze changes over time, draw comparisons and interpretations of past events, and analyze differing points of view. Teachers will utilize a variety of instructional methods to help students achieve these goals. Simulation activities, role-playing exercises, classroom discussions, debates, and research-based projects may be used to ensure students receive the highest level of instruction. Furthermore, students may be expected to utilize technology to meet course requirements, such as conducting internet-based research, designing PowerPoint presentations, using the Google suite of programs, and blogging. Our courses incorporate 21st-century skills to ensure students are college and career ready and prepared to become active, engaged, and informed citizens in our democratic system.

GLOBAL HISTORY 1 (2011)
Grade 9
Full Year, 1 Credit
Prerequisite: Social Studies 8
Summer Assignment Required
Full Year, 1 Credit
Prerequisite: Social Studies 8
Recommendation: Social Studies 8 with a grade of at least B+
Pre-Advanced Placement World History is the first year of a two-year course designed for students who are highly motivated and who possess strong reading and writing skills as well as a mature work ethic. Over the two-year period students will explore six time periods with five overarching themes that emphasize human endeavors, such as the impact of intellectual and technological developments and the emergence of the modern nation-state. These themes provide a framework to make comparisons over time and across cultures. For all time periods, major interpretative issues, alternative historical frameworks and historical debates define the program. Midterm and final assessments are required of all students. All students are required to complete a summer assignment, participate in the annual Roger W. Sullivan History Conference, and take the Advanced Placement World History examination in May of their sophomore year and the Global History Regents examination in June of their sophomore year.

GLOBAL HISTORY 1 (2011RE)
Grade 9
Full Year, 1 Credit
Pre-AP WORLD HISTORY (2055)
Grade 9
PRE-AP WORLD HISTORY (2055)
Grade 9
Full Year, 1 Credit
7.5 Periods/Week
Prerequisite: Departmental placement
Global History 1 RE (Regents Extended) is the foundation of the two-year Global History and Geography program. This program is based on the New York State K-12 Social Studies Framework (“NYS Framework”) and is anchored in the New York State Learning Standards for Literacy and Writing and New York State Learning Standards for Social Studies. These standards serve as a consistent set of expectations for what students should learn and be able to do so that we can ensure that all participants are prepared to be active and engaged citizens who are ready to pursue college or a career. This program utilizes a chronological format organized around themes and concepts beginning with the Paleolithic Era and the development of the first civilizations, continues with an examination of classical societies, and traces the expansion of transregional empires and trade networks and their global impact. The course emphasizes the key themes of interactions over time, shifts in political power, and the role of belief systems.

The additional class time will provide students the opportunity to ensure mastery of the subject matter and to develop the necessary skill to be successful on the Regents examination. Some of those skills to be addressed include document analysis, map interpretation and reading comprehension. The learning activities utilized in the extra class period will complement the work in the Regents class. All students will take a midterm and the Global History Regents examination based on the curricula of Global History. The extra support period may satisfy the Academic Intervention Service requirement.

GLOBAL HISTORY 2 (2115)
Grade 10
Full Year, 1 Credit
Prerequisite: Pre-AP World History or Global History 1
Global History 2 is the second part of the two-year NYS Global History program. Students will begin their exploration with a snapshot of the world circa 1750. The course continues chronologically up to the present. Several concepts are woven throughout the course including industrialization, nationalism, imperialism, conflict, technology, and the interconnectedness of the world. The last three key ideas focus on global issues, applying a more thematic approach. A midterm and final assessments are required of all students. All students must take the Global History Regents examination based on the curricula of Global History.

GLOBAL HISTORY 2 (2115 RE)
Grade 10
Full Year, 1 Credit
7.5 Periods/Week
Prerequisites: Global History 1 and departmental placement
Global History 2 RE (Regents Extended) is the second part of the two-year NYS Global History program. Students will begin their exploration with a snapshot of the world circa 1750. The course continues chronologically up to the present. Several concepts are woven throughout the course including industrialization, nationalism, imperialism, conflict, technology, and the interconnectedness of the world. The last three key ideas focus on global issues, applying a more thematic approach.

The additional class time will provide students the opportunity to ensure mastery of the subject matter and to develop the necessary skill to be successful on the Regents examination. Some of those skills to be addressed include document analysis, map interpretation and reading comprehension. The learning activities utilized in the extra class period will complement the work in the Regents class. All students will take a midterm and the Global History Regents examination based on the curricula of Global History. The extra support period may satisfy the Academic Intervention Service requirement.

AP WORLD HISTORY (2060)
Grade 10
Full Year, 1 Credit
Summer Assignment Required
Prerequisite: Pre-AP World History or Global History 1
Recommendation: Global History 1 with a grade of at least B+
This is the second year of the two-year Advanced Placement World History program. Students will begin a rigorous exploration of the world circa 1750 and continuing to present day. Several concepts are woven throughout the course including European exploration, global trade, absolutism, political revolutions, industrialization, nationalism, imperialism, conflicts, technology, and the interconnectedness of the world.

All students are required to complete a summer assignment, participate in the annual Roger W. Sullivan History Conference, take a midterm, and take the Advanced Placement Examination in May and the NY State Global History Regents examination in June.

AP EUROPEAN HISTORY (2140)
Grades 10-12
Full Year, 1 Credit
Summer Assignment Required
Advanced Placement European History is a challenging history course recommended for sophomores, but open to both juniors and seniors who are highly motivated and who possess strong reading and writing skills as well as a mature work ethic. This full-year course examines major periods in the history of Europe from the time of the Renaissance to the present. Historical problems and issues will be considered in their political, social, economic, religious, and cultural contexts. All sophomores who participate in this program will be required to take both the Advanced Placement European History examination in May and the NY State Global History Regents examination in June of their sophomore year. Juniors and seniors are also required to sit for the Advanced Placement examination in European History. The student fee for the Advanced Placement examination varies from year to year. All students are required to complete a summer assignment and participate in the annual Roger W. Sullivan History Conference. A midterm and final assessments are required of all students. This course may be substituted for the second half of the required two-year Global History program.

U.S. HISTORY AND GOVERNMENT (2210RE)
Grade 11
Full Year, 1 Credit
7.5 Periods/Week
Prerequisites: AP World History, AP European History, or Global History 2; and departmental placement
United States History and Government RE (Regents Extended) follows the NY State syllabus and New York State Learning Standards. Students will begin by examining the colonial and constitutional foundations of the United States and will explore the government structure and functions written in the Constitution. The development of the nation and the political, social, and economic factors that led to the challenges our nation faced during the Civil War will be addressed. Industrialization, urbanization, and the accompanying problems are examined, along with America’s emergence as a world power, the two world wars of the 20th century, and the Cold War. Students will explore the expansion of the federal government, the threat of terrorism, and the place of the United States in an increasingly globalized and interconnected world. A midterm and final assessments are required of all students. All students are required to take a Regents examination based upon the program of United States History and Government.

AP U.S. HISTORY (2230)
Grades 11-12
Full Year, 1 Credit
Summer Assignment Required
Prerequisite: AP World History, AP European History, or Global History 2
Recommendation: Global History 2 with a grade of at least B+
Advanced Placement in United States History is a challenging history course designed for juniors and seniors who are highly motivated and possess strong reading and writing skills as well as a mature work ethic. The course stresses major themes in United States history from the colonial period to the present. Students will begin by examining the development of the nation and the political, social, and economic factors that led to the challenges our nation faced during the Civil War will be addressed. Industrialization, urbanization, and the accompanying problems are examined, along with America’s emergence as a world power, the two world wars of the 20th century, and the Cold War. Students will explore the expansion of the federal government, the threat of terrorism, and the place of the United States in an increasingly globalized and interconnected world.

The additional class time will provide students the opportunity to ensure mastery of the subject matter and to develop the necessary skills to be successful on the Regents examination. Some of those skills to be addressed include document analysis, map interpretation, and reading comprehension. The learning activities utilized in the extra class period will complement the work in the Regents class. All students will take a midterm and the United States History Regents examination. The extra support period may satisfy the Academic Intervention Service requirement.
colonial and constitutional foundations of the United States and will explore the government structure and functions written in the Constitution. The development of the nation and the political, social, and economic factors that led to the challenges our nation faced during the Civil War will be addressed. Industrialization, urbanization, and the accompanying problems are examined, along with America's emergence as a world power, the two world wars of the 20th century, and the Cold War. Students will explore the expansion of the federal government, the threat of terrorism, and the place of the United States in an increasingly globalized and interconnected world.

All students are required to complete a summer assignment, participate in the annual Roger W. Sullivan History Conference, take a midterm, and take the Advanced Placement United States History examination in May and the United States History and Government Regents examination in June.

**COURSES THAT SATISFY THE PARTICIPATION IN GOVERNMENT REQUIREMENT**

**PARTICIPATION IN GOVERNMENT (2310)**

*Grade 12*

*Half Year, .5 Credit*

**Prerequisite: AP U.S. History or U.S. History and Government**

Participation in Government is a one-semester course in public policy analysis required of all students for graduation. Students will be required to define social problems, identify policy alternatives, evaluate the effects of specific policies, implement policies, and apply policy analysis skills to real-world situations. In addition, through active civic engagement, this course will serve to create more prepared, active, and informed citizens ready to tackle the challenges we face in the 21st century. The Participation in Government program stresses key civic values critical for effective participation in our ever-increasingly multicultural and interdependent world. A final assessment is required of all students.

**AP UNITED STATES GOVERNMENT AND POLITICS (2320)**

*Grade 12*  

*Full Year, 1 Credit*

**Prerequisites: AP U.S. History or U.S. History and Government**

Advanced Placement United States Government and Politics is a full-year course. This course will provide students with an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret the U.S. government and politics and the analysis of specific examples. Topics explored include constitutional underpinnings of the United States government; political beliefs and behaviors; political parties, interest groups and mass media; institutions of national government; and public policy and civil rights liberties.

Students will participate in a variety of activities such as simulations, debates, seminars, competitions, and a special project. These activities are designed to give students insight into such issues as political beliefs and behavior, political parties, and interest groups. All students are required to participate in the We the People competitions in December and January and attend evening seminars to prepare. A midterm and final assessment are required of all students. Students are required to participate in the annual Roger W. Sullivan History Conference and take the Advanced Placement United States Government and Politics Examination in May of their senior year. The student fee for the Advanced Placement examination varies from year to year.

**PARTICIPATION IN GOVERNMENT/LEADERSHIP (2340)**

*Grade 12*  

*Full Year, Alternate Days .5 Credit*

**Prerequisites: Application and departmental approval**

This course will acquaint students with the components of leadership and will assist them in developing effective strategies for participation in activities on local, state, national, and global levels. Students will be expected to conduct student-developed projects for the 9-12 campus. These projects may include human rights activities, voter registration, and other service component activities necessary to acquaint high school students with responsibilities of participatory citizenship. Students who participate in this program must be willing to devote considerable time to complete work outside of the classroom period. The course will place strong emphasis on government operations and skills essential for leadership and effective participation in our political process. In addition, this course will focus on the teaching and learning needs for the 21st century, highlighting core skills such as critical thinking and problem-solving, goal setting, time management, creativity and innovation, communication, initiative and self-direction, collaboration, and information and media literacy. The integration of these 21st-century skills will assist students to become...
effective and productive citizens, leaving their mark on our school and their community. Applications must be submitted by students and will be reviewed by a departmental committee for acceptance into the program. A final assessment is required of all students.

COURSES THAT SATISFY THE ECONOMICS & ECONOMIC DECISION-MAKING REQUIREMENT

ECONOMICS (2350)
Grade 12
Half Year, .5 Credit
Prerequisite: AP U.S. History or U.S. History and Government
Economics is a one-semester course required of all students for graduation. The course is designed to give students an introduction to macroeconomics and microeconomics. Students will be required to (1) analyze, evaluate, and make generalizations based on data; (2) use the problem-solving process to define problems, hypothesize, investigate, and analyze selected data and (3) recognize alternative solutions and make decisions both as an individual and a citizen. The units of study are introduction to economics and economic systems, elements of the economy (microeconomics), bringing the economic system together (macroeconomics), and the United States and the world economy. A final assessment is required of all students.

AP ECONOMICS (2370)
Grade 12
Full Year, 1 Credit
Prerequisites: AP U.S. History or U.S. History and Government
Advanced Placement Economics is open to students in grade 12 whose ability and academic performance qualify them for this program. This course takes a more in-depth view of basic economic concepts in both microeconomics and macroeconomics. Central questions facilitate inquiry into topics including scarcity, resources, markets, federal spending, taxation, fiscal policy, monetary policy, international trade, and currency exchange. Students are prepared for success on the AP Economics exam through a diversity of activities, including graphing, reading assignments, document analysis, debates and discussions, study of contrasting economic theories, lectures, internet research projects, and blog post submissions. In addition to the potential of earning college credit through The College Board AP Program, students will become conversant in practical economic knowledge necessary for informed participation in our modern society. Every effort is made to apply core economic concepts to real-life questions and conflicts, making the course relevant to those who may or may not seek to pursue business and finance beyond high school.

Students will participate in a variety of experiences including field trips, guest speakers, readings and simulations. Midterm and final assessments are required of all students. Students are required to participate in the annual Roger W. Sullivan History Conference and take the Advanced Placement Economics examination in May. The student fee for the Advanced Placement examination varies from year to year.

AP HUMAN GEOGRAPHY (2635)
Grades 10-12
Full Year, 1 Credit
Summer Assignment Required
Prerequisite: Pre-AP World History or European History, or Global History 2
Advanced Placement Human Geography is a full-year offering intended for students who desire a college-level course. It introduces students to a full range of psychological insights and includes such topics as personality theory and assessment, intelligence, learning and memory, motivation and emotion, sensation and perception, developmental psychology, psychological disorders, and psychotherapy. Some of the individuals studied include Sigmund Freud, Carl Jung, B.F. Skinner, Jean Piaget, and Erik Erikson. Students have the opportunity to perform research and conduct experiments. Midterm, and final assessments are required of all students. Students are required to participate in the annual Roger W. Sullivan History Conference and take the Advanced Placement Psychology examination in May. The student fee for the Advanced Placement examination varies from year to year.

ELECTIVE AP CREDIT COURSE DESCRIPTIONS

AP PSYCHOLOGY (2629)
Grades 11-12
Full Year, 1 Credit
Prerequisite: AP World History, AP European History, or Global History 2
Advanced Placement Psychology is a full-year offering intended for students who desire a college-level course. It introduces students to a full range of psychological insights and includes such topics as personality theory and assessment, intelligence, learning and memory, motivation and emotion, sensation and perception, developmental psychology, psychological disorders, and psychotherapy. Some of the individuals studied include Sigmund Freud, Carl Jung, B.F. Skinner, Jean Piaget, and Erik Erikson. Students have the opportunity to perform research and conduct experiments. Midterm, and final assessments are required of all students. Students are required to participate in the annual Roger W. Sullivan History Conference and take the Advanced Placement Psychology examination in May. The student fee for the Advanced Placement examination varies from year to year.
and practice. Midterm, and final assessments are required of all students. Students are also required to complete a summer assignment, participate in the annual Roger W. Sullivan History Conference and take the Advanced Placement Human Geography examination in May of their senior year. The student fee for the Advanced Placement examination varies from year to year.

**ELECTIVE HIGH SCHOOL CREDIT COURSE DESCRIPTIONS**

**HOLOCAUST, GENOCIDE, HUMAN RIGHTS (2460)**
Grades 11-12
Half Year, .5 Credit
*Prerequisite: None*

This course explores the causes, events, and consequences of the Holocaust and investigates other major genocides of the modern world. Students study genocide in Armenia, Bosnia, Cambodia, and Darfur. Other issues include racism, gender discrimination, and human rights violations as they relate to the individual in today's world. Students will take a field trip to the Nassau County Holocaust Memorial Museum. A final assessment is required of all students.

**INTRODUCTION TO PSYCHOLOGY (2495)**
Grades 11-12
Half Year, .5 Credit
*Prerequisite: None*

Introduction to Psychology is a one-semester high school-level course intended for students who desire an introduction to human behavior and personality. This course will assist students to understand human thought and action. Topics include human growth and development, learning and memory, personality, abnormal psychology, and therapies. The course attempts to give students insights into the reasons behind their behavior. Hypnosis, IQ testing, dream analysis, the use of reward and punishment to control behavior, ethics of psychological research, and the rights of the mentally ill are just some of the topics covered. A final assessment is required of all students.

**CRIMINAL JUSTICE (2415)**
Grades 11-12
Half Year, .5 Credit
*Prerequisite: None*

This course introduces students to our legal system. Students will study criminal law and due process. Guest speakers, student participation in mock trials, and field experiences are an integral part of this program. Police, court, correction, probation, and parole officers will meet with students, as will defense and prosecuting attorneys. A final assessment is required of all students.

**HUMAN CONFLICT (2485)**
Grades 10-12
Half Year, .5 Credit
*Prerequisite: None*

Human Conflict is a one-semester course of study on the pervasive issues and global dynamics of our modern world. Topics range from political disputes and economic issues to environmental problems and cultural conflicts. The course will review various world economic and political perspectives with an emphasis on international relations, U.S. foreign policy, and organizations such as the United Nations. A final assessment is required of all students.
Social Studies

**Grade 9**
- Pre-AP World History or Global History 1

**Grade 10**
- AP World History or Global History 2
- AP European History

**Grade 11**
- AP U.S. History or U.S. History and Government

**Grade 12**
- AP Economics or Economics and AP U.S. Government and Politics or Participation in Government

**Electives**
- AP European History
- AP Human Geography
- AP Psychology
- Criminal Justice
- Holocaust, Genocide, Human Rights
- Human Conflict
- Introduction to Psychology
CONSTRUCTION MATERIALS/ WOOD 1 (6221)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
This is an introductory course for students with an interest in learning to manipulate a variety of materials, especially wood, into useful products. They will learn to design, select materials, and construct using a full range of woodworking machines and hand tools to perform such processes as cutting, shaping, joining, adhering, and finishing. Students who want to complete more intricate projects should enroll in Construction Materials/Wood 2.

CONSTRUCTION MATERIALS/ WOOD 2 (6223)
Grades 9-12
Half Year, .5 Credit
Prerequisite: Construction Materials/Wood 1
The Construction 2 student will further the knowledge gained regarding wood and woodworking machines from the first course and apply it to create larger, more appealing and useful projects. The focus of this course will be on the attention to detail, such as good planning and layout skills, making straight and accurate cuts, following careful assembly procedures, and much more. This course promotes professionalism and places the emphasis on quality, not quantity.

DIGITAL PHOTO IMAGING (6339)
Grades 9-12
Half Year, .5 Credit
Prerequisite: None
This course teaches students hands-on photography for cameras and cell phones. Learn techniques to take your photos to the next level. You will learn the settings and start shooting with all the modes on your camera. Projects will include depth of field, forced perspective, studio work, stop motion, multiplicity, dynamic range, and event photography. You will have opportunities to build a professional portfolio with live studio shootings and will learn how to publish and advertise using photography. Adobe Photoshop will be used to help enhance your photos and for “trick photography.”

DESIGN & DRAWING FOR PRODUCTION (DDP) (6510)
Grades 9-12
Half Year, .5 Credit
Note: When taken with DDP/Architecture, students may fulfill the art/music requirement with this course.
Prerequisite: None
This course begins with an introduction to the language of industry and the tools of the designer. Students will experience freehand sketching and multiview drawing and will solve a variety of design problems in engineering and architecture. As a major part of this course, students will learn to use computers with CAD software as a tool for completing design problems. Design is an important part of this course and students are assigned several design activities to complete. Students desiring to take the second half of this course will select either DDP/Architecture or DDP/Engineering, which are described on the next page.

DDP/ARCHITECTURE (6530)
Grades 9-12
Half Year, .5 Credit
This course satisfies the second .5 Credit of the art/music requirement when taken after DDP.
Prerequisite: Design & Drawing for Production (DDP)
This is one of two courses that can be taken for the second half of DDP. Students will gain an introduction to architecture by solving a variety of design problems. Solutions will be presented through plan, elevation, pictorial sketches, and color renderings. Three-dimensional model building and drawings made on the CAD system are major components of this course. Designing a vacation home from rough idea to finished scale model is the activity that dominates this course of study.

ARCHITECTURE 2 (6540) Grades 10-12
Half Year, .5 Credit
Prerequisite: DDP/Architecture
This course engages students in further development of concepts introduced in DDP/Architecture, including the evaluation of and solutions to more complex problems. Students will study architectural design, plane surveying, advanced drafting techniques, project presentations methods including 3-D models, and advanced computer-aided drawing techniques using AutoCAD and AutoCAD Revit software. Internet exploration of design concepts and scale architectural models are examples of activities included in this class.

PLTW INTRO TO ENGINEERING DESIGN: DDP (6690) Grades 9-12
Full Year, 1 Credit
Members of the class may elect to take the course for 3 college credits from Rochester Institute of Technology.
Credit for this course may be used to meet the arth/music graduation requirement.
Prerequisite: None
Introduction to Engineering Design (IED) is part of the Project Lead the Way Engineering program. This course is designed for all students interested in engineering, architecture, and drafting. Students are introduced to the engineering profession and a common approach to the solution of engineering problems, known as the design process and application. Students will work individually and in teams to design solutions to a variety of problems, develop research and analytical skills, learn technical writing, and create engineering graphics. They will apply math, science, and technology knowledge learned in other courses to solve engineering design problems. Students will use traditional and computer-aided drafting while exploring new and exciting design problems. Students will use the industry standard 3-D solid modeling software Autodesk Inventor to design and document their solutions to problems. Students can elect to take the Autodesk Inventor Certification exam. Students are provided the opportunity to receive three credits from Rochester Institute of Technology after earning a score of at least 6 on the end-of-course examination and meeting the minimum course average requirement set by the college. While receiving the college credits is optional, students interested in receiving these credits will be charged a fee by the college.

ROBOTICS 1 (6616) Grades 9-12
Half Year, .5 Credit
Prerequisite: None
This course explores the engineering concepts and principles of robotic design. Its hands-on, problem-solving approach incorporates robotic and electronic interfaces, computer programming, modeling software (AutoCad), and pneumatics. In this engineering laboratory, the students will begin to design and create a working robot. The tools of science, technology, engineering, and mathematics are seamlessly integrated in this authentic learning environment.

ROBOTICS 2 (6117) Grades 9-12
Half Year, .5 Credit
Members of the class may elect to take the course for 3 college credits from SUNY Farmingdale.
Prerequisite: Robotics 1 or departmental permission
This course further explores engineering concepts and principles of robotic design in more depth. In this engineering laboratory, the students will expand their knowledge of gears, drivetrains, classical mechanics and pneumatics, and sensors to design and build sophisticated robots capable of being controlled autonomously or tele-operated in competitions with other students. This hands-on problem-solving approach will also incorporate computer programming and Autodesk Inventor to write complicated programs and virtually build and test robotic designs. The tools of science, technology, engineering, and mathematics are seamlessly integrated in this authentic learning environment.

BASIC ELECTRICITY/ELECTRONICS (6350) Grades 9-12
Half Year, .5 Credit
Prerequisite: None
This course is a hands-on laboratory experience that covers the tools and resources of electricity/electronics in the study of its practical applications. Content includes
circuit construction, basic servicing techniques, house wiring (alarms, telephones), an introduction to integrated circuit devices, circuit measurement, and consumerism. Students will construct projects to enhance their electronic knowledge. Students will also explore a variety of career opportunities in the fields of electricity and electronics.

**COMPUTER REPAIR 1 (6625)**
Grades 10-12
Half Year, .5 Credit
*Prerequisite: None*
This course will prepare students for a career as an entry-level information technology (IT) professional or personal computer service technician. Students will prepare for the Comp TIA A+ Certification Exam 701. The course will build on existing user-level knowledge and experience with personal computer software and hardware to present fundamental skills and concepts that students could use on the job. In this course, students will acquire the essential skills and information they will need to install, upgrade, repair, configure, troubleshoot, optimize, and perform preventative maintenance of basic personal computer hardware and operating systems.

**COMPUTER REPAIR 2 (6626)**
Grades 10-12
Half Year, .5 Credit
*Prerequisite: Computer Repair 1*
Students will prepare for the A+ Personal Computer Technician certification by Comp TIA 802 exam. This is one of the most valued certifications in the Information Technology industry. The A+ exam objectives emphasize portable computing devices, networking, and security to reflect today’s technology. Real-world scenarios, including communication and professionalism, are also emphasized.

**SMALL ENGINE APPLICATIONS (6450)**
Grades 9-12
Half Year, .5 Credit
*Prerequisite: None*
This course is designed to teach theory of operation, troubleshooting, repair, tune-ups, and rebuilding all small engines utilized in power equipment from lawn movers to outboard engines. Students will learn the application of special tools used in the overhaul operation. They will apply this knowledge to innovative uses of small engines.

**AUTOMOTIVE TECHNOLOGY 1 (6435)**
Grades 10-12
Half Year, .5 Credit
*Prerequisite: None*
Automotive Technology 1 is a half-year lecture-lab course designed to introduce the student to basic car care procedures. As new and up-and-coming vehicle owners/drivers, the information and skills students acquire in this course will prove to be invaluable. In this course, students will learn many useful skills, such as how to clean and maintain their car, how to change their oil, fix a flat tire, safely lift a vehicle, and more. The skills that students learn in this class will benefit them throughout their life. Some of the nontechnical skills they will learn are how to develop safe, clean work habits and attitudes regarding auto care. The transferable skills learned in this course are beneficial to all students regardless of their career path.

**AUTOMOTIVE TECHNOLOGY 2 (6436)**
Grades 10-12
Half Year, .5 Credit
*Prerequisite: Automotive Technology 1*
This is the second course offered in Automotive Technology and is broken into three categories: brakes, suspension systems, and welding. Students will learn related theories for each area along with service procedures. Students will learn how to replace worn brake pads and shoes; cut rotors; repair a broken brake line; bleed brakes; and replace a ball joint, bushing, tie rod end, and strut. Students will learn how to use an oxy/acetylene torch, arc welder, and mig welder.
Technology

Automotives
- Small Engine Applications
- Automotive Technology 1
  - Automotive Technology 2

Computers
- Computer Repair 1
  - Computer Repair 2

Construction
- Construction Materials/Wood 1
  - Construction Materials/Wood 2

Drawing & Design for Production
- Design & Drawing for Production (DDP)
  - DDP/Architecture
    - Architecture 2

Engineering
- PLTW Introduction to Engineering Design

Electronics
- Basic Electricity/Electronics

Photography
- Digital Photo Imaging

Robotics
- Robotics 1
  - Robotics 2