

Comsewogue High School Curriculum Guide



2019-2020

Comsewogue School District

2019-2020 Board of Education

John Swenning	President
Alexandra Gordon	Vice President
Francisca Alabau-Blatter	Trustee
Robert DeStefano	Trustee
Corey Prinz	Trustee
Richard Rennard	Trustee
James Sanchez	Trustee

Central Administration

Jennifer J. Quinn, Ed.D.	Superintendent of Schools
Susan M. Casali	Associate Superintendent
Jennifer Polychronakos, Ed.D.	Assistant Superintendent for Instruction
Joseph Coniglione	Assistant Superintendent for Staff & Student Services
Michelle Lautato	Assistant to the Superintendent for Human Resources
Audrey Nilsen, Ed.D.	District Administrator for Pupil Personnel Services
Matteo DeVincenzo	Director of Athletics, Health and Physical Education
Don Heberer	District Administrator for Instructional Technology
Micheala Finlay	Assistant Director for Pupil Personnel Services

Comsewogue High School Administration

Michael J. Mosca	Principal
Robert Cassagne	Assistant Principal
Timothy Dornicik	Assistant Principal

Comsewogue High School Guidance Counselors

Clarissa Porrello	District Subject Leader of Guidance
Ann Clyde	Class of 2021 and 2023
Brenda Hirko	Class of 2020 and 2022
Melissa Fiore	Class of 2020 and 2022
Sean Tremblay	Class of 2021 and 2023

Title IX

The Comsewogue School District at 290 Norwood Avenue, Port Jefferson Station, NY 11776, does not discriminate on the basis of race, color national origin, or gender in the education programs or activities that it operates. This policy on non-discrimination includes counseling services for students and student access to education, programs, course offerings and student activities.

How to Plan a Successful Academic Program During the Course Selection Process

Dear Students and Parents,

This guide describes Comsewogue High School course offerings as well as State and Local graduation requirements. Guidance assemblies will be held to assist students in planning their 2019-2020 academic program, and at that time, students will receive the Comsewogue High School Curriculum Guide. Reading this guide thoroughly and carefully before final course selections are made is critical to planning a successful academic program!

Making the appropriate course selections is a prerequisite to your academic success. It is very important to select only those courses for which you have met the **prerequisite**. You should also know that the Master Schedule is built around your course selections, and only courses with sufficient enrollment can be offered.

By working together, we can insure that a meaningful and challenging academic program for each student will be achieved. We encourage all of our students to take full advantage of our outstanding programs and course offerings.

Joseph Coniglione
Principal

School Code

334-587

Table of Contents

State and Local Graduation Requirements	6
Credits Required for Local, Regents and Advanced Regents Diplomas.....	6
Commissioner’s Regulations	6
Required Scores on Regents Exams.....	6
NCAA Approved Courses	7
Special Programs	7
Advanced Placement.....	7
Career and Technical Education Programs	7
Co-Enrolled Classes/College Credits Earned Through High School Courses.....	8
SUNY Stony Brook: Accelerated College Education (ACE) Program.....	8
St. John’s University: College Advantage Program	9
SUNY Farmingdale: University in the High School.....	10
Suffolk County Community College: Beacon Program.....	10
Suffolk County Community College: Early College Program.....	11
Art	12
Department Objectives	12
Course Offerings.....	12
Course Descriptions.....	13
Business	20
Department Objectives	20
Course Offerings.....	20
Course Descriptions.....	20
English	24
Department Objectives	24
Course Offerings.....	25
Course Descriptions.....	25
Health.....	32
Department Objectives	32
Course Offerings.....	32
Course Descriptions.....	33
Languages Other Than English.....	34
Department Objectives	34
Course Offerings.....	34

Course Descriptions	35
Mathematics	39
Department Objectives	39
Course Offerings.....	39
Course Descriptions	41
Music.....	50
Department Objectives	50
Course Offerings.....	50
Course Descriptions	51
Physical Education.....	55
Department Objectives	55
Course Offerings.....	55
Course Descriptions	56
Science	57
Department Objectives	57
Course Offerings.....	57
Course Descriptions	58
Social Studies.....	66
Department Objectives	66
Course Offerings.....	67
Course Descriptions	68
Technology	75
Department Objectives	75
Course Offerings.....	75
Course Descriptions	76

State and Local Graduation Requirements

Credits Required for Local, Regents and Advanced Regents Diplomas

Subject Area	Credits Required
English	4
Social Studies	4
Mathematics	3
Science	3
Foreign Language	3
Art/Music	1
Health	0.5
Physical Education	2
Elective	1.5
Total	22

Commissioner's Regulations

- [The commissioner's regulations can be viewed by going to this page.](#)
- [For copies of past Regents Exams, scoring keys, rating guides and answer booklets, you may visit this page.](#)
- [Information about the New York State Next Generation Learning Standards can be found at this page.](#)

Required Scores on Regents Exams

Regents Diploma Requirements

Score of 65 or above on five (5) required Regents Exams.

Regents Diploma with Advanced Designation Requirements

Score of 65 or above on eight (8) required Regents Exams and the FLACS B Exam (Foreign Language).

Student with Disabilities

Students with disabilities are exempt from the SLP exam if the exemption is noted on the IEP. In addition, they may take advantage of the "safety net" which allows them to receive credit toward a local diploma if they score between 55-64 on the required Regents Exam(s).

NCAA Approved Courses

The NCAA courses are maintained as a guide for prospective student-athletes seeking NCAA initial-eligibility. They are subject to change at any time and without notice. Certification of a prospective student-athlete is case-specific, and the NCAA Eligibility Center has the authority to determine its sole discretion whether the prospective student-athlete has met all the criteria.



delineates a course approved by NCAA.

Special Programs

Advanced Placement

The Advanced Placement curriculum is the most challenging academic program that students can take during their high school career. AP students consistently demonstrate that they are willing to perform at the college level. Comsewogue High School offers a wide variety of Advanced Placement courses, all of which have received the College Board's approval and official AP designation. These include English Literature and Composition, English Language and Composition, World History, United States History, United States Government and Politics, Calculus AB, Calculus BC, Computer Science, Biology, Chemistry, Physics I, Physics II, French Language, Italian Language, and Spanish Language. Enrollment in the Comsewogue High School AP program requires the completion of an application for participation, which includes an AP contract, an AP application letter, and three teacher recommendations. Acceptance is determined by the high school's Advanced Placement Selection Committee. Depending upon the score achieved on the test and the policy of the college attended, students may receive college credit and/or advanced standing. The test fee is collected in November. For further information, see your Guidance Counselor and also visit the College Board web site.

Career and Technical Education Programs

The Boards of Cooperative Educational Services (BOCES) of New York State provide quality Career and Technical Education programs for secondary students. As many students know, CTE programs offer students the opportunity to receive specialized, hands-on training while still in high school. As described by BOCES, the primary goals of Career and Technical Education are to:

- Assist students in developing marketable, state-of-the-art career and technical skills.
- Educate students in programs which comply with current New York State standards.
- Provide well-qualified graduates to meet the challenging needs of business and industry.

Students attending a BOCES CTE program spend part of their day at Comsewogue High School and part of their day at one of the technical centers offering district-approved programs. Students attend BOCES in grades 11 and/or 12. “AM BOCES” means that students will attend periods 1-5 at BOCES and attend Comsewogue High School for periods 6, 7, and 8. “PM BOCES” means that students will attend Comsewogue High School for periods 1-5 and attend BOCES for periods 6, 7, and 8. Attending a BOCES CTE program provides students the opportunity to earn one credit of mathematics and one credit of science over the course of two years (grades 11 and 12). Students are required to take “Career and Financial Management” (see Business Department course offerings) for a BOCES sequence.

During course selection, counselors will discuss the options available and guide current 10th or 11th grade students into appropriate program decisions and placements. Regardless of the program selected, students will be considered for enrollment into a CTE program using the following district criteria:

- Remaining on track for graduation by passing English, Social Studies, Mathematics, Science, and Physical Education each year.
- Maintaining a satisfactory record of attendance in high school.
- Being a student in good standing (avoiding ineligibility, probation, and disciplinary action.)
- Having career interests and abilities geared toward district-approved CTE programs.

Your Guidance Counselor will distribute a booklet describing all course offerings for CTE programs for students meeting these criteria. Application to BOCES is required **each year**. Counselors will handle the application process with students to meet the BOCES deadline. Please see your counselor for further information.

Co-Enrolled Classes/College Credits Earned Through High School Courses

Comsewogue High School affords qualified high school students an opportunity to take college courses and earn college credits while learning in the high school environment through four (4) universities: St. John’s University, SUNY at Stony Brook, Suffolk County Community College and Farmingdale State College. All courses offered by the four post-secondary institutions carry credit which may be applicable toward a degree at other colleges/universities.

SUNY Stony Brook: Accelerated College Education (ACE) Program

The ACE program helps high school students develop the skills necessary for a successful college career, familiarizes them with the demands of university coursework, and introduces them to the learning environment and resources of a major university before they enter college full time. Students enroll in Stony Brook University courses taught in their high school. Upon successful completion of ACE course requirements, students will receive credit from Stony Brook University for the course(s) in which they have enrolled and for which they have paid.

Courses offered at CHS

0541 Italian III – SUNY

0542 Italian IV – SUNY

0543 Italian V – SUNY

Cost to Student

Stony Brook tuition and fees are waived; students pay only a non-refundable \$300 ACE program fee for each course.

Students with Financial Need

No provisions.

[For additional information about the Accelerated College Education program, you may visit the Stony Brook University website.](#)

St. John's University: College Advantage Program

The College Advantage Program at St. John's provides qualifying high school juniors and seniors with the opportunity to enroll concurrently in high school and credit bearing St. John's courses at a cost of \$325 per course (2018-2019 fee, subject to change), a deep discount from regular undergraduate tuition rates. College Advantage students who enroll at St. John's University the semester after high school graduation receive a \$2,000 Tuition Grant per year for up to four years of continuous, full-time undergraduate study at St. John's.

Courses Offered at CHS

0538 French CAP (FRE 2030 and FRE 2040)

0136 English CAP (ENG 1000c and ENG 2210c)

Cost to Student

\$325 per 3 credit course (2018-2019 fee, subject to change)

Students with Financial Need

No provisions.

[For additional information about the College Advantage program, you may visit the St. John's University website.](#)

SUNY Farmingdale: University in the High School

The University in the High School program enables qualified high school juniors and seniors to earn college credit for approved courses offered in their own school. Students who register with Farmingdale State College and successfully complete the course will be eligible to earn undergraduate college credits. Credits will be recorded on an official Farmingdale transcript and can either be used to pursue a degree at Farmingdale or a transcript can be sent to any other college the student wishes to attend.

Courses Offered at CHS

0248 You and the Law – SUNY

0249 Economics – SUNY

0619 Sports Management – SUNY

0615 Virtual Enterprise

Cost to Student

\$150 per 3-credit course (2019-2020)

Students with Financial Need

If you are a student enrolled in the free or reduced lunch program, you are eligible for reduced tuition at the rate of 50% per course. ((\$75) 2018-2019 fee, subject to change)

[For additional information about the University in the High School program, you may visit the Farmingdale State College website.](#)

Suffolk County Community College: Beacon Program

The Suffolk County Community College Beacon Program is a concurrent enrollment program that provides high school junior and senior students the opportunity to take The College's courses at their high school during their regular school hours, while simultaneously working toward high school graduation. The courses are taught by high school teachers who have been approved to teach the college courses at the high school. Students will be enrolled in the AP section of the course but will pay tuition to Suffolk Community College.

Courses Offered at CHS

- Chemistry
- Biology
- Forensic Biology
- Physics I

- Physics II
- Principles of Accounting
- Sports Management
- French
- Spanish
- Statistics

Cost to Student

Cost varies based upon course. Each course is 3 credits.

Students with Financial Need

No provisions.

[For additional information about the Excelsior Program, you may visit the Suffolk County Community College website.](#)

Suffolk County Community College: Early College Program

The Early College Program is an opportunity for high school juniors and seniors who attend Comsewogue High School to earn college credits while having an experience of college life. Students enroll in college classes and interact with college faculty, staff and other students. ECP students can earn college-level credits while continuing to complete high school. All classes are taught by college professors, and ECP students are integrated into classes with college students. Each program participant is assigned an ECP counselor. With guidance from the College's Program staff, students select classes from the general education program or take a sequence of courses in a particular curriculum.

[For additional information about the Early College Program, visit the Suffolk County Community College website.](#)

Art

Department Objectives

The Comsewogue High School Art Department offers a full array of courses designed to give students a sound and stimulating education in the fine arts. Because student achievement in art is dependent upon both creative vision and technical expertise, the Art Department encourages experimentation and fosters critical inquiry. Students and teachers work together in studio settings in an atmosphere that stimulates creativity and promotes artistic expertise. All course offerings support the New York State Learning Standards for the Arts.

Course Offerings

- Studio In Art
- Studio In Art A [Alternate day course]
- Studio In Art B [Alternate day course]
- Studio In Drawing & Painting
- Advanced Studio Art/Mural Design
- Design & Drawing For Production
- Studio In Product Design
- Architectural Drawing & Design I
- Architectural Drawing & Design II
- Studio In Computer Graphics
- Studio In Sculpture I
- Studio In Sculpture II
- Advanced Sculpture
- Digital Photography I
- Digital Photography II
- Advanced Digital Photography
- Video Production
- Studio In Ceramics
- World Of Design

Course Descriptions

Studio in Art

Course Code: 0701
Prerequisite: None
Term: Full Year
Credits: 1
Grade levels: 9, 10, 11, 12

Studio in Art is a one-year foundation course designed for those students planning to elect further art courses as well as students desiring a broad background in the visual arts as part of their general education. Studio in Art is a prerequisite for all advanced art courses. Students work with a variety of materials in three-dimensional design, display, graphic design, painting and sketching, sculpture, and mixed-media techniques, and are introduced to art from prehistoric times to art in American daily life. **Successful completion of this course satisfies the New York State Art/Music requirement for graduation.**

Studio in Art A [Alternate day course]

Studio in Art B [Alternate day course]

Course Code: 0728: 0729
Prerequisite: None
Term: Full year; alternate days
Credits: ½ each
Grade levels: 9, 10, 11, 12

Structured as alternate-day, one-year, half-credit courses for students needing more flexibility in their schedules, Studio in Art A and Studio in Art B are designed for those students planning to elect further art courses as well as students desiring a broad background in the visual arts as part of their general education. **Studio in Art** is a prerequisite for all advanced art courses. Students work with a variety of materials in three-dimensional design, display, graphic design, painting and sketching, sculpture, and mixed-media techniques, and are introduced to art from prehistoric times to art in American daily life. **Successful completion of each of these courses will satisfy the New York State Art/Music requirement for graduation.**

Studio in Drawing & Painting

Course Code: 0727
Prerequisite: Studio in Art
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

This course picks up where Studio in Art leaves off in the areas of drawing, design, and painting. Units include gesture and contour, sketching, value, color, the figure, landscape/still life, perspective, and non-objective and abstract drawing. As the skill of the artist's hand and the perception of the artistic eye are developed, art history is integrated to provide the student with a strong knowledge base. In addition, the arrangement of a palette, the preparation and stretching of a canvas, and the application of paint to a surface will be covered. A sketchbook is required.

Advanced Studio Art/Murals

Course Code: 0724
Prerequisite: Studio Art
Term: Full year
Credits: 1
Grade levels: 11, 12

This course enables the student to do advanced-level work in drawing, painting, printmaking, and three-dimensional design. Independent work is encouraged and expected. This class is for the serious-minded art student who needs to develop a portfolio of work. The development of mural design and the application of techniques used in mural painting may be included throughout the year. A sketchbook is required.

Design & Drawing for Production

Course Code: 0707
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 9, 10, 11, 12

Have you wondered how someone designed the latest Smart Phone or sleek new Sports Car? Did you or someone you know ever have an idea for a new invention but couldn't figure out how to create the blueprints for it? If so, Design and Drawing for Production may be the course for you! Using the CAD (Computer Assisted Drawing) Program, this course will provide students with basic knowledge about mechanical drawing. It encourages visual problem solving as students use graphic language to describe forms and shapes. Students will learn how engineers use computers to design and make drawings. Students will work from idea, to sketch, to technical drawing (Blueprints), and finally to actual construction of a prototype which can include 3D modeling and 3D printing. **Successful completion of this course satisfies the New York State Art/Music requirement.**

Studio in Product Design

Course Code: 0708
Prerequisite: Design & Drawing for Production or teacher recommendation
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

This advanced course affords the student the opportunity to develop the knowledge and understanding of the aesthetics, principles, and skills involved in consumer industry product design. The use of the CAD (Computer Assisted Drawing) Program will be an intensive part of the class.

Architectural Drawing & Design I

Course Code: 0709
Prerequisite: Design & Drawing for Production
Studio in Product Design or teacher recommendation
Term: Full year
Credits: 1
Grade levels: 11, 12

The principles of architectural design and practice will be the focus of this course. Students will be involved primarily with residential structures meeting various types of design criteria. Topics to be covered include floor plans, elevations, rendered elevations and perspectives, sections, plot plans, and framing plans. Emphasis will be placed on the study of energy-efficient design. A complete set of presentations/technical plans will be a major requirement of the course.

Architectural Drawing & Design II

Course Code: 0715
Prerequisite: Architectural Drawing & Design I or teacher recommendation
Term: Full year
Credits: 1
Grade levels: 12

This advanced course is a continuation of Architectural Drawing & Design I. Assignments are based on residential and commercial structures. However, students will apply more sophisticated elements of design to their blueprints.

Studio in Computer Graphics

Course Code: 0733
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

Organized around three main areas of study [3-D rendering; multimedia design; web design], this course emphasizes effective visual communication based on a thorough knowledge of the elements and principles of design. Working with state-of-the-art equipment, students will be introduced to industry-standard software such as Adobe Photoshop, Illustrator, Dream Weaver, Flash, and AutoCAD to create artwork, graphic designs, animation, and websites, and will be prepared to compete in the rapidly growing fields of web design and graphic arts.

Studio in Sculpture I **Studio in Sculpture II**

Course Code: 0705; 0706
Prerequisite: Studio in Art
Term: One semester
Credits: ½
Grade levels: 10, 11, 12

The program is designed to offer both aesthetic and technical experience for the appreciation of the three-dimensional form. As they develop sensitivity in the use of various materials, students will acquire dexterity to control the media and learn to express themselves in clay, wood, stone, pariscraft, and mixed media.

Advanced Sculpture

Course Code: 0725
Prerequisite: Studio in Sculpture I and II
Term: Full year
Credits: 1
Grade levels: 11, 12

From a foundation learned previously in Sculpture I and II, students will be able to gain expertise in a variety of materials and methods in sculpture. Practicing modeling, carving, casting, and construction, students will employ the mediums of clay and glaze; various woods such as poplar, pine, cherry, and walnut; stone types like soapstone and alabaster; plaster of Paris; and mixed media. Either by concentrating on one area in depth or by experimenting with a variety of

materials and methods, students will address the problems of space, form, movement, scale, balance, and symbolic meaning.

Digital Photography 1

Course Code: 0716
Prerequisite: None
Term: One semester
Credits: ½
Grade levels: 10, 11, 12

This is an introduction course for digital photography. Students will study how to use a DSLR (Digital Single Lens Reflex) camera. Students will learn basic editing to manipulate and alter images using Photoshop. In addition, students will also learn how to take better photographs, emphasis will be placed on the composition and quality of prints. Use of available light and studio lighting will be covered.

Digital Photography 2

Course Code: 0717
Prerequisite: None
Term: One semester
Credits: ½
Grade levels: 10, 11, 12

This course builds on the fundamental skills learned in Digital Photography 1. In Digital Photography 2 students are shown special lighting techniques for use in portraits as well as personal and commercial photography. Use of available light and studio lighting will be covered. Different lenses and advanced lighting equipment will be covered.

Advanced Digital Photography

Course Code: 0718
Prerequisite: Digital Photography 1 & Digital Photography 2
Term: Full year
Credits: 1
Grade levels: 11, 12

Students will produce a portfolio of work using available light and studio techniques. Advanced photography techniques and Photoshop will be covered with an emphasis on creating high quality, artistic photographs. DSLR cameras will be available to borrow outside of school.

Video Production

Course Code: 0735
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

The Video Production Course explores the medium of video. The course will cover video camera usage, filming techniques, interview skills and editing with Final Cut Pro X. Students will use these skills to create short films covering events, activities, school programs, etc. at the high school. This coverage might include a news program to keep students and staff informed of daily activities. Covering events that are going on in our school will help keep the community informed. Film history and creative filming will be a part of the course as well. Students will have an opportunity to work with other students in teams for all of the projects developed. This course will allow students to produce videos to publicize all the wonderful classes and activities offered in our district.

Studio in Ceramics

Course Code: 0736
Prerequisite: Studio Art
DDP
Term: Full year
Credits: 1
Grade levels: 10, 11

A foundation course into the world of ceramics. Students will be working with different clay bodies to create functional and aesthetic artwork through the use of throwing on the potter's wheel and hand building. Students will study historical and modern ceramic artists and artwork as a resource to make mugs, plates, bowls, teapots, and many more functional pieces along with free standing and wall hanging ceramic sculpture.

World of Design

Course Code: 0737
Prerequisite: Studio Art
DDP
Term: Full year
Credits: 1
Grade levels: 10, 11

This beginner course will be broken into three sessions. Each topic will cover aspects of design, creativity and your expressive ideas. Some projects in jewelry will include learning to work with beads, ceramic, metal work, polymer clay, enameling and more. Fashion design topics will include gesture and figure drawing, fashion sketching, draping techniques and rendering in colored pencil and watercolor. The Interior design session will include basic linear perspective to draw a room, color, setting a mood in a room, decorative accessories and space planning. This course will provide you with a groundwork to get into a design school such as F.I. T. (or take it just for fun!).

Business

Department Objectives

Business Department courses integrate the New York State Learning Standards for Career Development and Occupational Studies, which include the following:

Standard 1: Career Development

Students will be knowledgeable about the world of work, explore career options, and related personal skills, aptitudes, and abilities to future career decisions.

Standard 2: Integrated Learning

Students will demonstrate how academic knowledge and skills are applied in the workplace and other settings.

Standard 3a: Universal Foundation Skills

Students will demonstrate mastery of the foundation skills and competencies essential for success in the workplace.

Standard 3b: Career Majors

Students who choose a career major will acquire the career-specific technical knowledge/skills necessary to progress toward gainful employment, career advancement, and success in postsecondary programs.

Course Offerings

- Career & Financial Management
- Digital Generations: Creating a Professional Web Presence
- Accounting (SUNY)
- Career Jump Start
- Sports Management (SUNY)
- Virtual Enterprise

Course Descriptions

Career & Financial Management

Course Code: 0601
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 9, 10, 11, 12

This course is open to all students who are preparing for satisfying careers and success as working citizens. It includes four modules: Decision Making/Human Relations; The Working Citizens; Personal Resource Management; and Economics of Work. This course [formerly known as “Introduction to Occupations”] is required for a BOCES sequence.

Digital Generations: Creating a Professional Web Presence

Course Code: 0821
Prerequisite: None
Term: Semester
Credits: ½
Grade levels: 10, 11, 12

Creating a positive digital profile can be a challenging task for the 21st century student. In this course, learn how to utilize the power of the Internet and social media to enhance your web presence and digital profile. We will explore a number of topics including building a strong web presence, leveraging social media, creating and uploading video content, blended and distance learning as well as mobile devices as a learning tool. The culminating activity for this course the creation of a positive and sustainable web presence and digital profile. Discover how technology and social media impact society now and future forward.

Accounting I

Course Code: 0604
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

This course is designed to develop occupational competencies in bookkeeping and stimulate interest in accounting as a field of study in college. Students will learn how to collect and verify source documents, analyze business transactions, journalize, post, and close accounts, generate financial statements and accounts for payroll. Additionally, students are introduced to computerized accounting procedures through the use of software simulations.

Accounting (SUNY)

Course Code: 0606
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

Students can earn 3 college credits from SUNY Farmingdale if students apply and are accepted to this program. **Instruction is at a college level. See Special Programs, SUNY Farmingdale for additional information and tuition costs.**

Career Jump Start

Course Code: 0617
Prerequisite: None
Term: Semester
Credits: ½
Grade levels: 10, 11, 12

Career Jump Start will help students in college decision-making and in obtaining a job in the career of their choice. Topics include College Planning, Financial Aid, and Employment Do's and Don'ts. By exploring colleges and jobs on Long Island and beyond, students will prepare college and employment resumes and cover letters, and learn how to conduct a professional interview. Research will include a study of career preparation and opportunities, including the implications of relocation on one's career and an examination of employment benefits and pensions. Students will also have the opportunity to "job shadow" a career professional. Students taking Career Jump Start one semester are expected to take Advanced Computer Applications the other semester.

Sports Management

Course Code: 0619
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

From San Francisco to Madison Avenue! Explore the psychology and selling of goods and services. Learn how and why Great Adventure and Disney World sell their amusement parks to you the consumer. Learn how retailers target customers and develop marketing strategies for the customers. Find ways to start and succeed in your own small business using the internet and ecommerce. Through principles of marketing learn how teams are owned and operated within today's dynamic sports business world. Analyze the marketing strategies of famous. This course will culminate with the creation of a marketing plan and presentation for a product that the student will invent. Guest speakers and field trips will enrich the course content.

Sports Management – SUNY

Course Code: 0620
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

This course can also be taken for 3 college credits through SUNY Farmingdale if students apply and are accepted to this program. Instruction is at a college level.

Virtual Enterprise

Course Code: 0615
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

The Virtual Enterprise is an international business simulation program that has students create and manage their very own virtual business. 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 actual business is that no material goods are produced or real money is 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 task 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. This course may be repeated for credit.

English

Department Objectives

The Common Core Learning Standards for English Language Arts and Literacy define general, cross-disciplinary literacy expectations that must be met for students (Standards) and characteristics of CCLS instruction. The Standards are organized into four overlapping strands: Reading, Writing, Language and Speaking/ Listening. Because the CCLS present an integrated model of literacy, the Standards mutually inform one another.

Download: [New York State P-12 Common Core Learning Standards for ELA and Literacy](#)

Download: [Appendix A: Common Core Standards for ELA/Literacy: Supporting Research and Glossary](#)

Download: [Appendix B: Common Core Standards for ELA/Literacy: Text Exemplars and Sample Performance Tasks](#)

Download: [Appendix C: Common Core Standards for ELA/Literacy: Samples of Student Writing](#)

A successful integration of the Standards will provide students with necessary fluency, comprehension, analytic and communication skills necessary to be on track for college- and career readiness. The integration of the Standards into instruction will also require instructional shifts, which are born out in the specific fluency, comprehension, analytic and communication expectations stated in the Standards.

As a result of CCLS-aligned instructions, Students will readily undertake the close, attentive reading that is at the heart of understanding and enjoying complex works of literature. They will habitually perform the critical reading necessary to pick carefully through the staggering amount of information available today in print and digitally. They will actively seek the wide, deep, and thoughtful engagement with high-quality literary and informational texts that builds knowledge, enlarges experience, and broadens worldviews.

They reflexively demonstrate the cogent reasoning and use of evidence that is essential to both private deliberation and responsible citizenship in a democratic republic. In short, students who meet the Standards develop the skills in reading, writing, speaking, and listening that are the foundation for any creative and purposeful expression in language.

All students must be enrolled in an English course each year they are in high school. Accelerated students (those who took English 9X in middle school) who complete four years of English by the end of their junior year are to enroll in an Advanced Placement English course in their senior year.

Course Offerings

- English 9
- English 10
- English 10 Honors
- English 11
- English 11 Honors
- English 12
- English 12 H/College English – College Advantage Program
- Advanced Placement English Language & Composition
- Advanced Placement English Literature & Composition
- Journalism
- Mass Media
- SAT Prep - English

Course Descriptions

English 9

Course Code: 0102
Prerequisite: English 8
Term: Full year
Credits: 1
Grade levels: 9

English 9 is designed to continue the development of all language arts abilities in listening, speaking, reading and writing. Students will study literature of various genre including poetry, drama, short stories and novels. Writing assignments will encompass a variety of audiences and purposes and will be integrated throughout the year.

English 10

Course Code: 0106
Prerequisite: English 9
Term: Full year
Credits: 1
Grade levels: 10

English 10 is designed to continue the development of all language arts abilities in the areas of listening, speaking, reading and writing. Students will engage in note taking exercises, public speaking projects, extensive essay writing, and literary analysis. The focus of study will include several full-length works with various themes reflecting a variety of cultures and periods in history.

English 10 Honors



Course Code: 0105
Prerequisite: English 9X or English 9 with a final mark of 90 or higher
Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 9, 10

English 10 Honors focuses on the examination of a variety of literary genres from many different countries and time periods. Students will engage in note-taking exercises, public speaking projects, extensive essay writing, and literary analysis. Students in the Honors class will read more literature and examine that literature more deeply than students in the English 10 class. The students are expected to be motivated for literary analysis, discussion, and critical thinking. **A summer reading assignment is required of all students.**

English 11



Course Code: 0109
Prerequisite: English 10
Term: Full year
Credits: 1
Grade levels: 11

English 11 emphasizes the literary culture and tradition of the United States. Units ranging from Puritanism, to modern, to contemporary literature are discussed and studied in depth. Writing is an integral part of the curriculum with an emphasis on various types of essays (particularly essays of literary analysis) and research skills, and a formal research paper is completed. **Students will take the New York State Comprehensive English Regents in January and a class final in June. Passing the comprehensive English Regents is required for a high school diploma.**

English 11 Honors



Course Code: 0108
Prerequisite: English 10 or 10 Honors with a grade of 90 or higher
Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 10, 11

English 11 Honors fosters scholarship and inquiry by providing an in-depth study of literature and writing with a special emphasis on the literary culture and tradition of the United States. Units ranging from Puritanism, to modern, to contemporary literature are discussed and studied in depth. Students will be expected to complete a variety of independent readings and an independent research project. Writing will be an integral part of the curriculum with an emphasis on various types of essays (particularly essays of literary analysis). **Students will take the New York State Comprehensive English Regents in January and a class final in June. Passing the comprehensive English Regents is required for a high school diploma. A summer reading assignment is required of all students.**

English 12



Course Code: 0112
Prerequisite: English 11
Term: Full year
Credits: 1
Grade levels: 12

This course will focus on effective verbal and written communication by emphasizing the essential English Language Arts skills of reading, writing, speaking, and listening. While the course may include analysis of poems, plays, essays, short stories, and novels, activities may also include creative writing, debating, and public speaking. Students will be encouraged to experience the subject of English in a more expansive way by exploring a variety of genres such as science fiction and fantasy, by creating their own works based upon literary models examined and analyzed in class, and by focusing on the oral and written techniques necessary for effective speech and discussion. English 12 will prepare students well for the demands of post-secondary academic studies and career-based pursuits.

English 12 Honors



Course Code: 0137
Prerequisite: English 11 or English 11 Honors
Grade of 90 or higher in English in grades 9, 10, and 11
English Regents grade of 85 (Mastery) or higher
Term: Full year
Credits: 1
Grade levels: 12

This course is designed for students who have shown an aptitude for language arts and who may wish to pursue further study of English, either in college or in Advanced Placement classes. The course will stress effective college-level writing as well as the critical examination of appropriate academic readings. Students will learn to write for a variety of purposes and in different genres, including expository, creative, and research-based writing. The curriculum will focus on contemporary issues and relevant texts and literature. Students will complete presentations, projects, essays, and a research paper, while also working to build vocabulary and grammatical skills. A summer reading and writing assignment is required of all students.

English CAP



Course Code: 0136
Prerequisite: English 11 or English 11 Honors
Grade of 90 or higher in English in grades 9, 10, and 11
A minimum of 1000 on Critical Reading and Mathematics on PSAT or SAT
Teacher recommendation
English Regents grade of 90 (Mastery) or higher
Term: Full year
Credits: 1
Grade levels: 12

The CAP English course runs as a full-year class that covers both a semester of First-Year Writing and a semester of British Literature. In the first semester, students will work within a community of writers to generate ideas, read texts through the lens of a working writer, access and interrogate sources of information, revise, create multimodal texts, and design a final digital portfolio. Students will work in a workshop setting, sharing their writing and responding to the work of their classmates. The course offers students an introduction to writing studies, an opportunity to experiment with their own developing styles, a chance to explore a range of compositional and rhetorical strategies, and the opportunity to research ideas and topics of

relevance to their own lives and chosen disciplines. In the second semester, students will study works from the canon of British Literature, completing readings and literary analysis tasks. Students interested in earning up to six college credits from St. John's University can apply for CAP. A summer reading and writing assignment is required of all students. See College Advantage Program for additional information and tuition costs.

Advanced Placement English Language & Composition

Course Code: 0116
Prerequisite: English 11 or English 11 Honors
Grade of 90 or higher in English in grades 9, 10, and 11
Term: Full year
Credits: 1
Grade levels: 11

Advanced Placement English Language and Composition is designed for students who have demonstrated exceptional ability in the language arts areas of listening, speaking, reading, and writing. Students will examine the style, structure, and content of a wide variety of published writing. Students will explore all aspects of writing, building from multiple meanings of a single word through the various possibilities of sentence construction, as well as the structuring of the paragraphs and entire essays. The AP designation on the report card and transcript, as well as the weight factor for the AP course, will only be applied for students taking the AP examination. **A summer reading and writing assignment is required of all students.**

Advanced Placement English Literature & Composition

Course Code: 0115
Prerequisite: English 11 or English 11 Honors
Grade of 90 or higher in English in grades 9, 10, and 11
Teacher recommendations & AP Selection Committee approval
English Regents grade of 90 (Mastery) or higher
Term: Full year
Credits: 1
Grade levels: 12

Advanced Placement English Literature & Composition is designed for students who have demonstrated exceptional ability in the language arts areas of listening, speaking, reading and writing. The purpose of the course is to provide students with a college-level course in literary analysis. Students will develop a clear understanding of a variety of literary tests, including

novels, short prose, and poetry. Students will discover the importance of voice, syntax, and diction within a literary work, consider structure, style and themes, explore a variety of literary devices, and research historical values within the literature. This course involves reading, analyzing, and writing about literature and the ways in which authors create complex and layered works through their use of setting, characterization, tone, allusion, and theme. Within these broad designations we also do close examinations of sections of the work to explore the authors' use of mood, foreshadowing, passing allusions, imagery, diction, syntax, and other more specific devices of language that shape the novels, plays, poems, and other works that are part of the course of study in AP Literature. The AP designation on the report card and transcript, as well as the weight factor for the AP course, will only be applied for students taking the AP examination. **A summer reading and writing assignment is required of all students.**

Journalism / Mass Media

Course Code: 0187; 0172
Prerequisite: None
Term: One semester each
Credits: ½ each
Grade levels: 11, 12

During the fall semester in Journalism, students are trained in the production of **The Warrior**, Comsewogue High School's newspaper, including the use of Microsoft Publisher. Participants learn the specific writing techniques required in newspaper writing, as well as the ins and outs of T.V. news broadcasting. During the spring semester in Mass Media, students continue to work on **THE WARRIOR** and study advertising, cinema, print publications, and electronic communications. Issues surrounding ethics and responsibility of the media will be discussed. Projects will include the production of original audio and video compositions.

SAT Prep - English

Course Code: 0173
Prerequisite: English 9
Teacher recommendation
Term: One semester
Credits: ½
Grade levels: 10, 11, 12

SAT English Prep is a semester elective designed to prepare students to succeed on the Evidence-Based Reading and Writing sections of the new SAT test. The course will focus on reading strategies for reading comprehension passages, grammar/punctuation/sentence structure, vocabulary in context, test-taking tricks, using rhetorical/literary devices and techniques for the essay, time management, and much more. Students will get to take several practice tests and

write practice essays as well. Overall, the class is a great opportunity to train for the SAT test during the school day at no extra charge.

Health

Department Objectives

Standard 1: Personal Health and Fitness

Students will understand human growth and development and recognize the relationship between behaviors and healthy development. They will understand ways to promote health and prevent disease and will demonstrate and practice positive health behaviors.

Standard 2: A Safe and Healthy Environment

Students will demonstrate personally and socially responsible behaviors. They will care for and respect themselves and others. They will recognize threats to the environment and offer appropriate strategies to minimize them.

Standard 3: Resource Management

Students will understand the influence of culture, media, and technology in making decisions about personal and community health issues. They will know about and use valid health information, products, and services. Students will advocate for healthy families and communities.

Course Offerings

- Health
- Human Anatomy

Course Descriptions

Health

Course Code: 1407(semester); 1408 (A/B Days)
Prerequisite: None
Term: 1407: One semester
1408: A/B days, Full Year
Credits: ½
Grade levels: 10, 11, 12

Health focuses on the physical, emotional, and mental aspects of a person's well-being. Students learn about body systems and ways to promote personal nutrition, physical, emotional, and mental fitness. Health also emphasizes various social health issues, including parenting, life stages, substance abuse, and health vs. disease in society. **This course satisfies the NYS graduation requirement for health.**

Health is a required course for graduation.

Human Anatomy



Course Code: 1404
Prerequisite: None
Term: Semester
Credits: ½
Grade levels: 10, 11, 12

This course is designed for students who have an interest in the field of sports medicine. The student will learn about basic anatomy and physiology of the body, evaluate common sports injuries, learn how athletic injuries are treated, and acquire a knowledge base regarding rehabilitation and prevention of sports injuries. Students will also gain valuable insight into careers in the health professions that are related to sports medicine, like Physical Therapy.

***This course is a health elective and does not satisfy the NYS graduation requirement.**

Languages Other Than English

Department Objectives

Consistent with the New York State Learning Standards for Languages Other Than English, the LOTE Department offers courses in French, Italian, and Spanish that support these standards:

Standard 1: Students will be able to use a language other than English for communication.

Standard 2: Students will develop cross-cultural skills and understandings.

While students begin their foreign language experience at the elementary school in the exploratory program, and continue at the middle school where they begin a language sequence, achievement of these standards for Languages Other Than English is measured by New York State at three “checkpoints”:

Checkpoint A: FLACS Checkpoint ‘A’ Examination [taken at the end of Grade 8, Level I]

Checkpoint B: FLACS Checkpoint ‘B’ Examination [taken after Level III]

Checkpoint C: Advanced study at Levels IV, V, and Advanced Placement

- **The FLACS Checkpoint B Examination in a Language Other Than English is a required exam for a Regents diploma with advanced designation.**
- **Although local graduation requirements are met by completing a minimum of three credits in Languages Other Than English, the Department strongly encourages students to continue their study beyond level III in order to acquire greater proficiency in and mastery of their chosen language.**

Course Offerings

- French I
- French II
- French III
- French IV
- French V
- Advanced Placement French
- College French – College Advantage Program
- Italian I
- Italian II
- Italian III
- SUNY Stony Brook Italian III
- Italian IV
- SUNY Stony Brook Italian IV
- Italian V
- SUNY Stony Brook Italian V
- Advanced Placement Italian
- Spanish I
- Spanish II
- Spanish III
- Spanish IV
- Spanish V
- Advanced Placement Spanish

Course Descriptions

French I **

Italian I**

Spanish I**

Course Code: French: 0509; Italian: 0516; Spanish: 0501

Prerequisite: None

Term: Full year

Credits: 1

Grade levels: 9, 10, 11, 12

The Level I course of study in one of the Modern Romance Languages is an introductory course in which students learn the sound system of the language, basic vocabulary, and grammatical patterns. The student is introduced to the various customs pertaining to the country of the language being studied. **Juniors and seniors may take a Level I LOTE as an elective to study a third language after completing a minimum of three years in a second language.**

****French I, Italian I, Spanish I are only NCAA approved if taken during grades 9-12.**

French II

Italian II

Spanish II

Course Code: French: 0512; Italian: 0519; Spanish: 0504

Prerequisite: A passing grade on the FLACS Checkpoint A Examination given in Middle School **OR** successful completion of Level I in High School

Term: Full year

Credits: 1

Grade levels: 9, 10, 11, 12

In the Level II course of study in one of the Modern Romance Languages, emphasis is placed on mastering more complex structures in speaking, listening, reading, and writing the target language and acquiring an extensive vocabulary. Readings give insight into the culture of the country.

French III

Italian III

Spanish III

Course Code: French: 0513; Italian: 0520; Spanish: 0506
Prerequisite: Level II
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

Language skills are improved and refined, and the most complex grammatical patterns are learned. Emphasis is placed on preparing for the FLACS Checkpoint B Examination that is given in June, with a particular focus on conversation, listening comprehension, and written expression.

SUNY Stony Brook Italian III



Course Code: 0541
Prerequisite: Level II
Term: Full year
Credits: 4 SUNY Stony Brook credits
1 Comsewogue credit
Grade levels: 10, 11, 12

This course is designed for students who want a more rigorous course granting them college credit. Students will delve deeper into grammatical structures of the language and certain topics will be examined more closely through various projects with an authentic audience in mind. All instruction will also prepare students for the FLACS Checkpoint B Examination in June that will allow students to gain the Advanced Regents designation on their diploma.

All SUNY Stony Brook courses cost \$300.00 for the year (2018-2019) and are paid directly to the university shortly after registration. Please keep in mind that tuition is subject to change for the 2019-2020 school year.

French IV



Italian IV

Spanish IV

Course Code: French: 0514; Italian: 0521; Spanish 0507
Prerequisite: Level III
Term: Full year
Credits: 1
Grade levels: 10 [Spanish only], 11, 12

Students engage in upper-level practice in reading, writing, listening, and, in particular, speaking in the target language. Study at this level includes an introduction to the literature of the language and participation in projects designed to encourage the creative use of the language in its spoken and written forms.

SUNY Stony Brook Italian IV

Course Code: 0542
Prerequisite: Level II
Term: Full year
Credits: 4 SUNY Stony Brook credits
1 Comsewogue credit
Grade levels: 11, 12

This course will be a continuation of the previous year, where students will increase their experience with all modalities of the language through project/problem based learning. New topics will be added to the students' repertoire and will enhance their vocabulary, preparing them to use the language effectively with a target audience.

All SUNY Stony Brook courses cost \$300.00 for the year (2018-2019) and are paid directly to the university shortly after registration. Please keep in mind that tuition is subject to change for the 2019-2020 school year.

French V Italian V Spanish V

Course Code: French: 0526; Italian: 0522; Spanish: 0528
Prerequisite: Level IV
Term: Full year
Credits: 1
Grade levels: 11 [Spanish only], 12

This advanced course provides a solid base for understanding and using thematic vocabulary and complex grammatical structures, enhanced by a variety of literary readings and communicative activities. The communicative activities help build the student's oral proficiency to advanced levels. Vocabulary and culture is addressed through selected readings, films, and projects. Students study the history and literary works of target language countries as well as culture and heritage through poems and essays of great literary masters.

SUNY Stony Brook Italian V

Course Code: 0543
Prerequisite: Level II
Term: Full year
Credits: 3 SUNY Stony Brook credits
1 Comsewogue credit
Grade levels: 11, 12

This is the last course in the SUNY Stony Brook sequence. This advanced level course will refine all modalities of the language, introducing new topics and vocabulary and emphasizing more fluent use of the language. **Students may be required to complete a summer reading and writing assignment.**

All SUNY Stony Brook courses cost \$300.00 for the year (2018-2019) and are paid directly to the university shortly after registration. Please keep in mind that tuition is subject to change for the 2019-2020 school year.

Advanced Placement French Language Advanced Placement Italian Language Advanced Placement Spanish Language

Course Code: French: 0515; Italian: 0540; Spanish: 0508
Prerequisite: Level IV
Teacher recommendations & AP Selection Committee approval
Term: Full year
Credits: 1
Grade levels: 11 [Spanish only], 12

This rigorous course is designed to further enhance the utilization of the target language in listening comprehension, writing, and reading comprehension at the college level. Emphasis will include oral language expression, as well as reading and grammatical rules. The AP Exam fee must be paid in November. The AP designation on the report card and transcript, as well as the weight factor for the AP course, will only be applied for students taking the examination.

Mathematics

Department Objectives

The main design principles in the New York State Common Core Learning Standards (CCLS) for Mathematics standards are focus, coherence, and rigor. These principles require that, at each grade level, students and teachers focus their time and energy on fewer topics, in order to form deeper understandings, gain greater skill and fluency, and more robustly apply what is learned. Focus in the curriculum is meant to give students an opportunity to understand concepts and practice with them in order to reach a deep and fluent understanding. Coherence in the curriculum means progressions that span grade levels to build students' understanding of even more sophisticated mathematical concepts and applications. Rigor means a combination of fluency exercises, chains of reasoning, abstract activities, and contextual activities throughout the module.

Download: [New York State P-12 Common Core Learning Standards for Mathematics](#)

The Standards for Mathematical Practice describe varieties of expertise that mathematics educators at all levels should seek to develop in their students. These practices rest on important “processes and proficiencies” with longstanding importance in mathematics education. The first of these are the National Council of Teachers of Mathematics (NCTM) process standards of problem solving, reasoning and proof, communication, representation, and connections. The second are the strands of mathematical proficiency specified in the National Research Council’s report **Adding It Up**: adaptive reasoning, strategic competence, conceptual understanding (comprehension of mathematical concepts, operations and relations), procedural fluency (skill in carrying out procedures flexibly, accurately, efficiently and appropriately), and productive disposition (habitual inclination to see mathematics as sensible, useful, and worthwhile, coupled with a belief in diligence and one’s own efficacy). Please read here for more detailed information about the [Standards for Mathematical Practice](#).

Students who begin an accelerated course of study in middle school are to enroll in mathematics courses throughout all four years of high school.

Course Offerings

- Algebra I
- Algebra I with Lab
- Geometry
- Geometry with Lab
- Geometry Honors
- Foundations in Advanced Algebra
- Algebra 2

- Algebra 2 with Lab
- Algebra 2 Honors
- SAT Prep – Math
- Precalculus
- Precalculus Honors
- Calculus
- Advanced Placement Calculus AB
- Advanced Placement Calculus BC
- Advanced Placement Computer Science
- Advanced Placement Computer Science Principles
- Functions and Statistics
- Advanced Placement Statistics
- College Algebra

Course Descriptions

Algebra I

Course Code: 0342
Prerequisite: 8th grade mathematics
(Pre-Algebra I)
Term: Full year
Credits: 1
Grade levels: 9

The Algebra I course includes topics in real number sets, polynomials, linear equations, inequalities, graphing systems of equations, factoring, quadratic equations, exponential equations, functions and statistics. This course will assist students in developing skills and processes to be applied using diverse techniques to successfully solve problems in a variety of settings. Students are required to take the Regents examination in June.

Algebra I with Lab

Course Code: 0343
Prerequisite: 8th grade mathematics
(Pre-Integrated Algebra I)
Term: Full year
Credits: 1
Grade levels: 9

Algebra I with Lab is the same course as Algebra I [see previous] with the addition of a lab period attached to the class on alternate days to provide necessary support for the learning and mastery of the various mathematical topics. Students will take the Algebra I Regents Examination in June. **Students will take the New York State Algebra I Regents Examination in June. A passing grade on the Algebra I Regents (along with passing grades on the Geometry Regents and Algebra 2 Regents) is required for a Regents Diploma with Advanced Designation.**

Geometry



Course Code: 0344; 0355T [accelerated]
Prerequisite: 9th grade mathematics
(Algebra I)
Term: Full year
Credits: 1
Grade levels: 9 [accelerated], 10

This course is the second year in the high school mathematics sequence. Reasoning and problem solving skills are developed for topics such as congruence and similarity and applied to the study of lines, triangles, quadrilaterals, and circles. Length, perimeter, area, circumference, surface area, and volume are used to solve real-world problems. Students will take the Geometry Regent Examination in June. Satisfactory achievement on the Geometry Regents Examination is the second of three Regents examinations required for an Advanced Regents Diploma.

Geometry with Lab



Course Code: 0345
Prerequisite: 9th grade mathematics
(Algebra I)
Term: Full year
Credits: 1
Grade levels: 10

Geometry with Lab is the same course as Geometry [see previous] with the addition of a lab period attached to the class on alternate days to provide necessary support for the learning and mastery of the various mathematical topics. **Students will take the New York State Geometry Regents Examination in June. A passing grade on the Geometry Regents (along with passing grades on Regents in Algebra I and Algebra 2 is required for a Regents Diploma with Advanced Designation.**

Geometry Honors



Course Code: 0355T [accelerated]
Prerequisite: Final average of 85 or greater in Algebra I
Term: Full year
Credits: 1
Grade levels: 9 [accelerated], 10

This course is the second year in the high school honors mathematics sequence. Reasoning and problem solving skills are developed for topics such as congruence and similarity and applied to the study of lines, triangles, quadrilaterals, and circles. Length, perimeter, area, circumference, surface area, and volume are used to solve real-world problems. Students will take the Geometry Regents. Satisfactory achievement on the Geometry Regents Examination is the second of three Regents examinations required for an Advanced Regents Diploma.

Foundations in Advanced Algebra

Course Code: 0371
Prerequisite: Geometry
Term: Full year
Credits: 1
Grade levels: 11, 12

There is a one year course which meets select New York State Learning Standard in Algebra 2. The course is designed to build on algebraic and geometric concepts learned in previous math courses. It will develop 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 and probability. This course will also introduce higher-level mathematics such as matrices and complex fractions. Students who successfully complete this course will be eligible to take Algebra 2.

Algebra 2

Course Code: 0366
Prerequisite: Algebra I (passing course and Regents)
Geometry (passing course and Regents)
Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 11

The purpose of this course is to satisfy the Algebra II requirement of the New York State Mathematics Standards. This upper level course fits into an overall program of mathematics studies with a rigorous academic core by extending what students have learned in the introductory level mathematics courses as well as introducing more advanced topics. These advanced topics include linear equations, inequalities, and systems, quadratic, polynomial, exponential, logarithmic, and Trigonometric functions, equations, and expressions. Students will take the New York State Algebra II Regents Examination in June. Satisfactory achievement on

the Algebra II Regents Examination is the third of three required for an Advanced Regents Diploma.

Algebra 2 with Lab

Course Code: 0367
Prerequisite: Algebra I (passing course and Regents)
Geometry (passing course and Regents)
Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 11

Algebra 2 with Lab is the same course as Algebra 2 [see previous] with the addition of a lab period attached to the class on alternate days to provide support for the learning and mastery of the various mathematical topics. **Students will take the New York State Algebra 2 Regents Examination in June. A passing grade on the Algebra 2 Regents (along with passing grades on Regents in Algebra I and Geometry) is required for a Regents Diploma with Advanced Designation.**

Algebra 2 Honors

Course Code: 0348T
Prerequisite: 85 or higher in Algebra I and Geometry course
85 or higher in Algebra I and Geometry Regents Exam
Term: Full year
Credits: 1
Grade levels: 10 (accelerated)

This course is the third year in the high school honors mathematics sequence. The purpose of this course is to satisfy the Algebra 2 requirement of the New York State Mathematics Standards. This upper level course fits into an overall program of mathematics studies with a rigorous academic core by extending what students have learned in the introductory-level mathematics courses as well as introducing more advanced topics. These advanced topics include linear equations, inequalities, and systems, quadratic, polynomial, exponential, logarithmic, and Trigonometric functions, equations, and expressions. Students will take the New York State Algebra 2 Regents Examination in June. Satisfactory achievement on the Algebra 2 Regents Examination is the third of three required for an Advanced Regents Diploma.

SAT Prep - Math

Course Code: 0651
Prerequisite: 9th
Teacher Recommendation
Term: One semester
Credits: ½ (elective credit only)
Grade levels: 10, 11, 12

This semester course is designed to prepare students to succeed on the mathematics portion of the College Board SAT Reasoning Test. This part of the SAT includes mathematics topics studied during the first two years of high school mathematics. Concepts such as Number and Operations, Algebra I and Functions, Geometry and Measurement, and Data Analysis, Statistics, and Probability will be emphasized and mastered.

Functions and Statistics



Course Code: 0377
Prerequisite: Three (3) years of high school mathematics
Term: Full year
Credits: 1
Grade levels: 11, 12

Functions and Statistics includes concepts such as circular functions, logarithmic functions, matrices, family functions and transformations. The course will also expose students to some elements of statistics including, hypothesis testing, comparisons of means, regression models and normal and binomial distributions.

College Algebra



Course Code: 0372
Prerequisite: Completion of 2 Math credits
Term: Full year
Credits: 1
Grade levels: 12

This course is for Seniors who have passed Integrated Algebra I, but who have experienced difficulty in mathematics and will not be pursuing the Advanced diploma. It is designed to prepare students for local college placement exams. A heavy emphasis will be placed on Algebraic skills without the use of a calculator. This course will be aligned with the curriculum and standards of MATH 001 & 007 offered at Suffolk Community College.

Precalculus



Course Code: 0313
Prerequisite: 85 or higher in Algebra I
Pass Algebra 2
Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 11

This course represents the “A” or the first third of the entire Advanced Placement Calculus syllabus and covers Precalculus and calculus topics in order to prepare students to enter Advanced Placement Calculus BC. The final examination is a school examination.

Precalculus Honors



Course Code: 0311
Prerequisite: 85 or higher in Algebra I, Geometry A2, Algebra 2 Honors
85 or higher on Algebra I and Geometry and Algebra 2 Regents Exams
Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 11

This course represents the first third of the entire Advanced Placement Calculus syllabus and covers Precalculus and calculus topics in order to prepare students to enter Advanced Placement Calculus BC. Students in this class are 11th grade students who have successfully taken and passed the course and the state regents exams in Algebra I, Geometry, and Algebra 2 accelerated with a minimum grade of an 85. The final examination in June is a school examination.

Calculus



Course Code: 0310
Prerequisite: Algebra 2
Term: Full year
Credits: 1
Grade levels: 12

This course offers students a wide variety of topics that form the foundation of higher mathematics and will prepare students to take Calculus in college. Topics include families of

functions and transformations, theory of equations, rational functions, exponential and natural logarithmic functions, limits and continuity, the derivative and its applications and curve sketching.

Advanced Placement Calculus AB

Course Code: 0314
Prerequisite: Precalculus
Teacher recommendations & AP Selection Committee approval
Term: Full year
Credits: 1
Grade levels: 12

This introductory college course covers analytic geometry, elementary differential calculus, and elements of integral calculus.

Advanced Placement Calculus BC

Course Code: 0315
Prerequisite: Precalculus
Teacher recommendations & AP Selection Committee approval
Term: Full year
Credits: 1
Grade levels: 12

AP Calculus BC differs from AP Calculus AB in that one third of the entire calculus syllabus (A, B, C) has already been covered in Precalculus. Students in BC will study differential equations, techniques of integration, partial derivatives, and sequences and series.

Advanced Placement Computer Science

Course Code: 0321
Prerequisite: Precalculus or AP Calculus (co-enrollment)
Teacher recommendation & AP Selection Committee approval
Term: Full year
Credits: 1
Grade levels: 11, 12

Because it is one of the most popular structured programming languages used in industry and because most colleges require their computer science students to learn it, Java is the language of Advanced Placement Computer Science.

Advanced Placement Computer Science Principles



Course Code: 0374
Prerequisite: Algebra I
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

Advanced Placement Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and prescribing practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. The course is unique in its focus on fostering students to be creative. Students are encouraged to apply creative processes when developing computational artifacts and think creatively while using simulations to explore questions that interest them. Students design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life.

To appeal to a broader audience, including those often underrepresented in computing, this course highlights the relevance of computer science by emphasizing the vital impact advances in computing have on people and society. By focusing the course beyond the study of machines and systems, students also have the opportunity to investigate the innovations in other fields that computing has made possible and examine the ethical implications of new computing technologies in partnership with the National Science Foundation, the AP Program collaborated with secondary and postsecondary educators and members of computer science educational professional organizations to develop the AP Computer Science Principles Curriculum Framework. This new Advanced Placement Computer Science Principles course is complementary to AP Computer Science A. Students can take these courses in any order or at the same time, as schedules permit. Both courses include rigorous computer science content and skills that can be built on to complete further STEM and computing studies. It is important to note that the Advanced Placement Computer Science Principles course does not have a designated programming language. Teachers have the flexibility to choose a programming language(s) that is most appropriate for their students to use in the classroom.

Advanced Placement Statistics



Course Code: 0353
Prerequisite: Precalculus or AP Calculus (co-enrollment)
Teacher recommendations & AP Selection Committee approval

Term: Full year
Credits: 1
Grade levels: 12

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

- Exploring Data: Describing patterns and departures from patterns
- Sampling and Experimentation: Planning and conducting a study
- Anticipating Patterns: Exploring random phenomena using probability and simulation
- Statistical Inference: Estimating population parameters and testing hypotheses

Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college statistics course.

Music

Department Objectives

The courses and performing groups of the Music Department are designed to meet the needs, interests, and talents of all high school students. These courses give students the opportunity to study, understand, appreciate, and perform music of all styles, periods, and cultures, consistent with the New York State Learning Standards for the Arts.

Course Offerings

- Concert Chorus
- Chamber Choir
- Concert Band
- Symphonic Band
- Pep Band
- Concert Orchestra
- Symphonic Orchestra
- Fundamentals of Performing Arts
- Music Theory
- Audio Production / Advanced Music Theory
- Applied Music
- Music Appreciation

Successful participation in chorus, chamber choir, symphonic band, or orchestra for a full year satisfies the New York State Art/Music requirement for graduation.

Course Descriptions

Concert Chorus

Course Code:	0903
Prerequisite:	None
Term:	Concert Chorus: Full year Concert Chorus A or B: Alternate day full year
Credits:	Concert Chorus: 1 Concert Chorus A or B: ½
Grade levels:	Any student new to the high school choral program

This course is designed for students who are in a high-school-level chorus for the first time. The concert chorus is open to anyone in the school without an audition. Concert chorus emphasizes the development of vocal skills, performance skills, and music reading skills. This ensemble studies and performs a wide variety of choral literature from all styles, cultures, and periods. Co-requisites include participation in all scheduled concerts as well as weekly rotational lessons. Performances include one winter concert, two spring concerts, and a possible performance at the elementary and/or middle schools. Successful completion of concert chorus will enable a student to enter chamber choir. Students are also encouraged to study privately. [See Applied Music]

Chamber Choir

Course Code:	0905
Prerequisite:	Concert Chorus Teacher recommendation
Term:	Full year
Credits:	1
Grade levels:	10, 11, 12

This selective choir is open to all students who demonstrate the ability to meet the required music skills either through successful completion of concert chorus, or (for those sophomores, juniors and seniors new to the district) an audition with the instructor. The primary focus of this ensemble is the study and performance of advanced choral literature, with special emphasis on artistic refinement of musical concepts and skills and the preparation of music for public performance. Course co-requisites include weekly rotational lessons and participation in all scheduled concerts and tours: one winter concert and two spring concerts; any special programs for elementary and/or middle school students; concerts for community organizations, concert tours, and exchange concerts; and concerts for adjudication. Students are also encouraged to study privately. [See Applied Music]

Concert Band

Symphonic Band

Course Code: 0920
Prerequisite: Prior ensemble experience or individual instruction
Successful audition
Term: Full year
Credits: 1
Grade levels: Concert Band: 9, 10
Symphonic Band: 11, 12

The Comsewogue High School Symphonic Band is an organization open to students with a background in wind or percussion instruments. Students will be performing in a number of co-requisite activities required to pass the course: three annual seasonal concerts; the homecoming parade in the fall; and the high school commencement ceremony in June. Students will be expected to attend weekly rotational lessons to fulfill their requirements for the class. Students are also encouraged to study privately on their band instruments [see Applied Music].

Pep Band

Course Code: 0921
Prerequisite: Co-enrollment in a performing ensemble
Term: Semester
Credits: ¼
Grade levels: 9, 10, 11, 12

All students will be required to attend weekly rehearsals after school. Performances during the following activities are required to pass the course: every home football game, any playoff football games, the pep rally, and several other school and community events outside the regular school day.

Concert Orchestra

Symphonic Orchestra

Course Code: 0922
Prerequisite: Audition to demonstrate proficiency at NYSSMA “grade 3” level
Term: Full year
Credits: 1
Grade levels: Concert Orchestra: 9, 10
Symphonic Orchestra: 11, 12

The Comsewogue High School Orchestra is an organization open to students with a background in stringed instruments. Students are required to attend three annual concerts and weekly rotational lessons. Some students will also participate in school-related events outside of the school day. Students are also encouraged to study privately [see Applied Music].

Fundamentals of Performing Arts

Course Code: 0907
Prerequisite: Teacher recommendations
Term: Full year
Credits: 1
Grade levels: 9, 10, 11, 12

This introductory course in theater is open to all students with an interest in drama, dance, and music. Students explore the technical and performance side of theater through performance based projects. Class participation is a major part of this program. Students will study and develop skills in all aspects of the performing arts. Co-requisites include attendance and participation at two evening performances.

Music Theory

Course Code: 0906
Prerequisite: Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 9, 10, 11, 12

Music Theory explores all the fundamentals of music and deepens the student's knowledge of writing and listening to music. This course will cover every aspect of musical notation, basic ear training, and the structural elements of music. Students will also be introduced to music selections from the classical era up to modern-day popular music and jazz. This course will include the basic use of computers in reading, writing, and analyzing music, and will be most valuable to students who plan to enter the music profession as well as those who are looking for a deeper understanding of music.

Advanced Music Theory

Course Code: 0937
Prerequisite: Music Theory
Term: Full year
Credits: 1
Grade levels: 11, 12

Advanced Music Theory continues to explore all the fundamentals of music in greater depth. This class involves intensive theoretical study and extensive ear training through the reading, writing, and analysis of music and includes the use of computers. This course is recommended for those students planning to study music at the collegiate level.

Applied Music

Course Code: 0912
Prerequisite: At least one year of private music instruction
Term: Full year
Credits: 1
Grade levels: 9, 10, 11, 12

Students are allowed to earn one credit by taking private music lessons from qualified music instructors. Students who are accepted into the Applied Music program must take one half-hour lesson a week for thirty-six weeks during the school year. Students will be given forms at the start of the school year to document their progress; these forms are to be submitted quarterly. (It is the responsibility of any Applied Music students not participating in symphonic band, orchestra, or chorus to contact the Music Department faculty in order to be assigned to an appropriate Music Department teacher for monitoring.) At the end of the school year, Applied Music students will be given a playing or singing examination by their assigned teacher. However, participation in the New York State School Music Association Solo Fest will be an adequate substitution for this requirement.

Music Appreciation

Course Code: 0950
Prerequisite: At least one year of private music instruction
Term: Full year
Credits: 1
Grade levels: 9, 10, 11, 12

Music Appreciation is teaching people what to listen for and how to understand what they are hearing in different types of music. This course will cover jazz, popular, classical and more. Grading will be based on classwork and participation. Being able to read music is not a prerequisite for this course.

Physical Education

Department Objectives

The Comsewogue High School Physical Education Department believes in the development of the whole person through physical activity. The department promotes the achievement of the New York State Learning Standards for Physical Education. We believe that every student can excel socially, academically, and physically. The New York State Learning Standards for Physical Education are:

1. **Personal Health and Fitness:** Students will have the necessary knowledge and skills to establish and maintain physical fitness, participate in physical activity, and maintain personal health. Students will perform basic motor and manipulative skills. They will attain competency in a variety of physical activities and proficiency in a few complex motor and sport activities. Students will design personal fitness programs to improve cardio-respiratory endurance, flexibility, muscular strength and endurance, and body composition.
2. **A Safe and Healthy Environment:** Students will acquire the knowledge and ability necessary to create and maintain a safe and healthy environment. Students will demonstrate responsible personal and social behavior while engaged in physical activity. They will understand that physical activity provides the opportunity for enjoyment, challenge, self-expression, and communication. Students will be able to identify safety hazards and react effectively to ensure a safe and positive experience for all participants.
3. **Resource Management:** Students will understand and be able to manage their personal and community resources. Students will be aware of and be able to access opportunities available to them within their community to engage in physical activity. They will be informed consumers and be able to evaluate facilities and programs. Students will be aware of some career options in the field of physical fitness and sports.

Course Offerings

- Physical Education
- Adaptive Physical Education

Course Descriptions

Physical Education / Adaptive Physical Education

Course Code: 1131 / 1104
Prerequisite: None
Term: Full year
Credits: ½
Grade levels: 9, 10, 11, 12

All physical education courses include individual, lifetime, adventure, cooperative, and team-oriented activities for all students. Students earn ½ credit for the full year and meet every other day on an A/B-day schedule. Adaptive physical education is offered only for students who require an individualized educational experience.

Science

Department Objectives

By recognizing the central role of the scientific method in everything we do, the Science Department offers courses that are relevant to our lives. All course offerings are designed to stimulate curiosity and to strengthen rational approaches to problem solving. Science is taught through a dynamic, hands-on approach that encourages students to be inquisitive and deliberative. All courses support the New York State Learning Standards for Mathematics, Science, and Technology, and specifically the following standards for Science:

- Students will be able to use mathematical analysis, scientific inquiry, and engineering design, as appropriate to pose questions, seek answers, and develop solutions.
- Students will access, generate, process, and transfer information using appropriate technologies.
- Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and the living environment and recognize the historical development of ideas in science.
- Students will understand the relationships and common themes that connect mathematics, science, and technology, and apply the themes to these and other areas of learning.
- Students will apply the knowledge and thinking skills of mathematics, science, and technology to address real-life problems and make informed decisions.

Students who begin an accelerated course of study in middle school are to enroll in science courses throughout all four years of high school.

Course Offerings

- Living Environment
- Advanced Placement Biology
- Physical Setting/Earth Science
- Physical Setting/Earth Science Honors
- Advanced Placement Environmental Science
- Physical Setting/Chemistry
- Physical Setting/Chemistry Honors
- Advanced Placement Chemistry
- Physical Setting/Physics
- Physical Setting/Physics Honors
- Advanced Placement Physics I
- Advanced Placement Physics II
- Astronomy
- Environmental Science
- Forensic Science
- Forensic Biology – SCCC
- Marine Science
- Intel Preparation Research Course

Course Descriptions

Living Environment



Course Code: 0421
Prerequisite: Life Science in 8th Grade
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 9

This course provides students with an understanding of the interrelationships between living things and their environment. Units of study include Ecology, Evolution, Genetics, Reproduction, and Homeostasis. Emphasis is placed on environmental problem solving and decision-making whereby students evaluate current environmental problems and assess the advantages and disadvantages of alternative solutions to them. Students are prepared to take the Living Environment Regents in June. In order to sit for the exam, all students must complete the NY State mandatory laboratory requirement. **Passing the Living Environment Regents satisfies the science exam requirement for a Regents diploma and partially fulfills the requirement for a Regents diploma with advanced designation.**

Advanced Placement Biology



Course Code: 0407
Prerequisite: Living Environment with at least a 90
Chemistry or Chemistry Honors with at least a 90
Teacher recommendations & AP Selection Committee approval
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 11, 12

Advanced Placement Biology is the equivalent of freshman college biology. Topics include classification, a brief overview of the five kingdoms, the chemistry of biology, cell structure and function, energetics, genetics, reproduction and development, plant physiology, vertebrate biology, animal behavior, evolution, and ecology. Students attend the SUNY Stony Brook Biotechnology Lab to complete AP laboratory requirements. The AP designation on the report card and transcript, as well as the weight factor for the AP course, will only be applied for students taking the AP examination.

Physical Setting/Earth Science



Course Code: 0423
Prerequisite: Living Environment
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 9, 10, 11, 12

Physical Setting/Earth Science places emphasis on the analysis of the ever-changing earth on which we all live. Concepts in Geology, Meteorology and Astronomy are explored and instruction is driven towards the interconnectedness between these themes. Students will participate in laboratory exercises and design their own investigations that provide hands on exploration of these topics. Students are prepared to take the Physical Setting/Earth Science Regents in June. In order to sit for the exam, all students must complete a New York State mandated laboratory requirement. Satisfactorily written laboratory reports must be filed with the State.

Physical Setting/Earth Science Honors



Course Code: 0432
Prerequisite: Living Environment
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 9, 10, 11, 12

Honors Earth Science students will study the topics described in 0423 with greater depth and rigor; including topics that go beyond the NY State Earth Science Core Curriculum. Students will be motivated to participate in more challenging lab exercises and field experiences that require a higher level of commitment and foster leadership skills. This course is designed to prepare students to take the Physical Setting/Earth Science Regents in June and to provide the skills needed to take Advanced Placement Science courses in the future. In order to sit for the exam, all students must complete a New York State mandated laboratory requirement. Satisfactorily written laboratory reports must be filed with the State.

Advanced Placement Environmental Science

Course Code: 0433
Prerequisite: Living Environment with at least a 90
One Physical Science (Chemistry, Physics or Earth Science) with 90 or better
Teacher recommendations & AP Selection Committee approval
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 10, 11, 12

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships in the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions to manage or prevent these problems. Topics include geology, biology, chemistry, and geography. The course is designed to be the equivalent of a one semester, introductory college course in environmental science.

Physical Setting/Chemistry

Course Code: 0409
Prerequisite: Living Environment or Physical Setting/Earth Science
Passing mathematics
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 9, 10, 11, 12

Physical Setting/Chemistry explores chemical concepts/principles and focuses on twelve key areas: matter and energy; atomic structure; bonding; periodic table; mathematics of chemistry; kinetics and equilibrium; acid-based theory; redox and electrochemistry; organic chemistry; application of principles of reaction; nuclear chemistry; and laboratory activities. Emphasis is placed on the use of chemical measurement with respect to behavior of matter and energy. Students are prepared to take the Physical Setting/Chemistry Regents in June. In order to sit for the examination, all students must complete a mandated laboratory experience. Satisfactorily written laboratory reports must be filed with the State.

Physical Setting/Chemistry Honors



Course Code: 0410
Prerequisite: Living Environment Physical Setting/Earth Science with at least an 85
Passing mathematics with at least an 85
Teacher recommendation
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 9, 10, 11, 12

Honors Chemistry students will study the topics described in 0409 with greater depth and rigor; including courses that go beyond the NY State Chemistry Core Curriculum. Students will be motivated to participate in more challenging laboratory exercises, as well as design their own inquiry experiments that illustrate the chemical concepts they learned in class. Emphasis will be placed on independent research and analysis of scientific literature. Students are prepared to take the Physical Setting/Chemistry Regents in June and given a strong science background needed to take Advanced Placement Science courses. In order to sit for the exam, all students must complete a New York State mandated laboratory requirement. Satisfactorily written laboratory reports must be filed with the State.

Advanced Placement Chemistry



Course Code: 0411
Prerequisite: Chemistry or Chemistry Honors with at least a 90
Living Environment or Physical Setting/Earth Science with at least a 90
Teacher recommendations & AP Selection Committee approval
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 10, 11, 12

Advanced Placement Chemistry is designed to be the equivalent of freshman college chemistry. Students attain a deep understanding of chemistry fundamentals and are prepared to solve chemical problems. Topics include thermo-dynamics, qualitative and quantitative analysis, quantum mechanics, spectroscopy, bonding, solution, and equilibrium chemistry. Emphasis is placed on chemical calculations, the mathematical formulation of chemical principles, and a wide range of laboratory work.

Physical Setting/Physics



Course Code: 0412
Prerequisite: Earth Science or Chemistry or Chemistry Honors
Passing mathematics
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 10, 11, 12

Physics, a study of the behavior of energy and matter, is the science that describes how the physical world works. It is the most fundamental of all sciences because all of the other sciences build upon physics. The five major units of the Physical Setting/Physics course are:

- Mechanics-study of motion and the forces causing an object's motion
- Energy-the ability to do work through the transfer/conservation of energy
- Electricity and Magnetism-the investigation of stationary and moving charges
- Waves-the investigation of energy transportation and the manner in which it travels
- Modern Physics-the most recent interpretations of classical theories

Students are prepared to take the Physical Setting/Physics Regents in June. In order to sit for the examination, all students must complete a mandated laboratory experience. Satisfactorily written laboratory reports must be filed with the State.

Physical Setting/Physics Honors

Course Code: 0413
Prerequisite: Earth Science or Chemistry or Chemistry Honors with at least an 85
Passing mathematics with at least an 85
Teacher recommendation
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 10, 11, 12

The Physical Setting/Physics Honors course includes topics beyond **0412**. Students should also expect more rigorous mathematical descriptions of physical principles and more challenging laboratory experiences. Students are prepared to take the Physical Setting/Physics Regents in June. In order to sit for the examination, all students must complete a mandated laboratory experience. Satisfactorily written laboratory reports must be filed with the State.

Advanced Placement Physics I

Course Code: 0413
Prerequisite: Earth Science or Chemistry or Chemistry Honors with at least an 85
Passing mathematics with at least an 85

Teacher recommendation
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 10, 11, 12

The AP Physics I course includes topics beyond **0412**. Students should also expect more rigorous mathematical descriptions of physical principles and more challenging laboratory experiences. Students are prepared to take the Physical Setting/Physics Regents in June. In order to sit for the examination, all students must complete a mandated laboratory experience. Satisfactorily written laboratory reports must be filed with the State.

Advanced Placement Physics II

Course Code: 0414
Prerequisite: Physics or AP Physics I with at least a 90
Chemistry or Chemistry Honors or Earth Science with at least a 90
Teacher recommendations & AP Selection Committee approval
Term: Full year with additional A or B day lab period
Credits: 1
Grade levels: 11, 12

The Advanced Placement Physics II course is designed to be the equivalent of the physics course usually taken during the freshman year of college. It includes topics in both classical and modern physics including mechanics, electricity, and magnetism found in a rigorous first-year college physics course. The aim of the course is to develop student's ability to read, understand, and interpret physical information (verbal, mathematical, and graphical); describe and explain the sequence of steps in the analysis of a particular phenomenon or problem; use arithmetic, Algebraic, geometric, and trigonometric reasoning in a physical situation or problem; perform experiments; and interpret the results of observations.

Astronomy



Course Code: 0424
Prerequisite: Living Environment and Physical Setting Science
Term: Semester
Credits: ½
Grade levels: 11, 12

Astronomy will introduce students to the universe in which they live. Through lectures, hands-on demonstrations, and fieldwork, students will gain a collective knowledge about the universe. Course topics include: history of astronomy; creation of the universe; galaxy formation; star formation; planetary systems; constellations; history of space flight; possibilities for extraterrestrial life. This course will encompass the four sciences (biology, chemistry, earth science, physics) to explain and illustrate the mechanics of the universe. Several night meetings, for the purpose of observation, are required (weather permitting). **This course may be combined with another semester science elective to satisfy the 3rd year of science requirement for graduation.**

Environmental Science



Course Code: 0431
Prerequisite: Living Environment
Term: Semester
Credits: ½
Grade levels: 11, 12

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 has on the environment. **This course may be combined with another semester science elective to satisfy the 3rd year of science requirement for graduation.**

Forensic Science



Course Code: 0425
Prerequisite: Living Environment and Chemistry
Term: Semester
Credits: ½
Grade levels: 12

In Forensic Science the chemical and physical evidence left behind at crime scenes will be scientifically investigated. Students will use technology to participate in activities that closely resemble those used by law enforcement personnel and forensic scientists. The major topics of study include: physical properties of evidence; hair and fiber analysis; fingerprints; tool marks and other impressions; forensic serology; and DNA evidence. By stepping into the role of a forensic scientist, the students learn and apply numerous scientific strategies and skills. **This course may be combined with another semester science elective to satisfy the 3rd year of science requirement for graduation.**

Forensic Biology - SCCC

Course Code: 0435
Prerequisite: Living Environment and Chemistry
Term: Semester
Credits: ½
Grade levels: 12

The focus of this course is on the biological aspects of forensic investigations and the analysis of biological evidence found at the crime scene. Particular emphasis will be given to DNA and the analysis of body fluids and other biological materials. The roles of anthropology, environment and entomology will also be investigated.

Students will be able to receive college credits (if they apply and are accepted, as well as pay a required fee) through Suffolk Community College.

Marine Science

Course Code: 0426
Prerequisite: Living Environment
Term: Semester
Credits: ½
Grade levels: 11, 12

Despite the fact that 71% of the Earth is covered with water, we actually know more about the surface of the moon than we do about the topography and contents of the oceans. Foundations of Marine Science will be developed by first studying Oceanography, which includes the physical and chemical properties of the oceans, and then studying Marine Biology, which includes the largest collection of organisms on Earth, representing almost every Kingdom and Phyla. Fundamentals of ecology and evolution will be stressed. **This course may be combined with**

another semester science elective to satisfy the 3rd year of science requirement for graduation.

Intel Preparation Research Course

Course Code: 0415
Prerequisite: At least an 85 average in core subjects
Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 9, 10, 11, 12

This course is designed for those students who wish to develop projects over an extended period of time and who wish to enter competitions with the objective of winning Intel Scholarships in their senior year. Students will be required to develop and improve their projects by conducting individual research, working with a mentor, and having the independent work monitored by the instructor. The State University and other institutions will be involved with the program. Students and their parents must be committed to fulfilling the goals of the program. Field trips and independent research with mentors will be required. Research emphasis will be in the areas of science, mathematics, philosophy, sociology, and psychology. Students are expected to meet with the teacher after school for consultation regarding their research. **Juniors must have research proposals submitted to the department before they register for this course for their senior year. Participation in a summer collegiate program is highly recommended.**

Social Studies

Department Objectives

Courses in the Social Studies Department are designed to engage students in learning how to fully participate in society as informed and knowledgeable citizens. From global to national to state and local government, history, geography, and economics, students practice the key social studies skills and learn to apply the content knowledge of a vast and ever-changing world in order to make informed decisions. All course offerings in the Social Studies Department support the New York State Learning Standards for the Social Studies, which are:

Standard 1: History of the United States and New York

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

Standard 2: World History

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

Standard 3: Geography

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

Standard 4: Economics

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

Standard 5: Civics, Citizenship, and Government

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

Course Offerings

- Global History & Geography I
- Global History & Geography I Honors
- Global History & Geography II
- Global History & Geography II Honors
- Advanced Placement World History
- United States History & Government
- United States History & Government Honors
- Advanced Placement United States History
- Advanced Placement US Government & Politics
- You & The Law
- You & The Law – CAP
- Government & Genocide
- Psychology
- History of Now: U.S. 1945 – Present

Course Descriptions

Global History & Geography I



Course Code: 0202
Prerequisite: 8th Grade Social Studies
Term: Full year
Credits: 1
Grade levels: 9

This course is a required course that exposes students to the major historical events and achievements in world history from 8000 BCE – 1750 CE. In this course students will investigate and analyze the significant events, individuals, achievements, and developments of world history by using the historical literacy skills and methods employed by historians. Students will be asked to analyze primary and secondary sources, make historical comparisons, utilize chronological reasoning, and formulate a sound argument.

Global History & Geography I Honors



Course Code: 0201
Prerequisite: 8th Grade Social Studies
Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 9

This course covers the same content as course **0202** but topics are studied more in depth and assignments are more rigorous.

Global History & Geography II



Course Code: 0205
Prerequisite: Global History & Geography I
Term: Full year
Credits: 1
Grade levels: 10

This course is a required Regents level course that exposes students to the major historical events and achievements in world history from 1750 through the present. Students will investigate and analyze the significant events, individuals, achievements, and developments of world history by using the historical literacy skills and methods employed by historians. Students will be asked to

analyze primary and secondary sources, make historical comparisons, utilize chronological reasoning, and formulate a sound argument. This course will prepare students for the required Global History II Regents exam.

Global History & Geography II Honors



Course Code: 0204
Prerequisite: Global History & Geography I with at least an 85
Term: Full year
Credits: 1
Grade levels: 10

This course covers the same content as course 0205 but topics are studied more in depth and assignments are more rigorous. **This course completes a student's preparation for the New York State Global History & Geography Regents Examination administered in June and required for a high school diploma. A summer reading assignment is required of all students.**

Advanced Placement World History



Course Code: 0214
Prerequisite: One or more years of high school social studies with at least a 90 in each course
Teacher recommendations & AP Selection Committee approval
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

This rigorous college-level World History course is organized chronologically from 1000 AD to the present. The study includes an examination of the impact of interaction among major societies (in trade, exchange, war, and diplomacy); the relationship of change and continuity across time; the impact of technology and demography on people and the environment; social structure and gender structure; cultural and intellectual developments and interactions among and within societies; and the changes in functions and structure of states and in attitudes toward states and political identities. Students will be expected to read historical materials in a discriminating way and to write effectively in an interpretive and analytical fashion. Tenth grade students are also required to take the New York State Global History and Geography Regents Examination. **A summer reading assignment is required of all students.**

United States History & Government



Course Code: 0208
Prerequisite: Global History & Geography II
Term: Full year
Credits: 1
Grade levels: 11

American history is studied chronologically with emphasis on key historical events throughout our nation's past. Major units include: the pre-colonial era, the Federalist era, the expansion period, pre and post-civil war (reconstruction), our industrial growth, and American problems in the 20th century, as well as an in-depth study of our constitution as it lays the groundwork for all governmental and historical directions. **Students take the New York State US History & Government Regents Examination in June, required for a high school diploma.**

United States History & Government Honors

Course Code: 0207
Prerequisite: Global History & Geography II with at least an 85
Teacher recommendation
Term: Full year
Credits: 1
Grade levels: 11

This course covers the same content as 0208 above but topics are studied more in depth and assignments are more rigorous. **Students take the New York State US History & Government Regents Examination in June, required for a high school diploma. A summer reading assignment is required of all students.**

Advanced Placement United States History

Course Code: 0215
Prerequisite: 90 or higher in Global History
90 or higher on Global History Regents
Term: Full year
Credits: 1
Grade levels: 11, 12

This course is recommended for students who are motivated to be involved in a rigorous and demanding investigation of US History. Students engage in assessing historical materials - their relevance to a given interpretive problem, their reliability and importance - and weigh the evidence and interpretations presented in historical scholarship. Students develop skills necessary to arrive at conclusions on the basis of an informed judgment and to present ideas

clearly and persuasively in essay format. Eleventh grade students are also required to take the New York State US History and Government Regents Examination. **A summer reading assignment is required of all students.**

Advanced Placement United States Government & Politics

Course Code: 0237
Prerequisite: Three years of high school social studies with at least a 90 in each course
Teacher recommendation & AP Selection
Committee approval
Term: Full year
Credits: 1
Grade levels: 12

This course will give students an analytical perspective on government and politics in the United States and will focus on the three branches of government, the political party system in America, the Constitutional origins of our government, state and local governments, and civil rights and civil liberties in a democratic society. This course is a rigorous one that requires a significant amount of critical reading, writing, and thinking. Because the general principles of economics will be integrated into the study of the American political system, **this course will satisfy the New York State Participation in Government requirement and the Economics requirement for seniors. A summer reading assignment is required of all students.**

You & The Law

Course Code: 0211
Prerequisite: US History & Government
Term: Semester
Credits: ½
Grade levels: 12

Students will have the opportunity to explore the criminal justice system of the United States, including an in-depth study of the penal laws of New York State; correction facilities and the courts; and crime and the criminal element. A variety of guest speakers, including judges, attorneys, police officers, and others actively involved in the criminal justice system, help to enhance the learning experience as students discuss the problems facing our society related to criminal activity. **This course will satisfy the New York State Participation in Government requirement for seniors.**

You & the Law – SUNY

Course Code: 0238
Prerequisite: US History & Government
Term: Semester
Credits: ½
Grade levels: 12

This course is the same as **0211** but 3 college credits are earned from St. John's University if students apply and are accepted to this program. Instruction is at a college level. **See Special Programs, College Advantage Program, for additional information and tuition costs. This course will satisfy the New York State Participation in Government requirement for seniors.**

Economics

Course Code: 0212
Prerequisite: US History & Government
Term: Semester
Credits: ½
Grade levels: 12

This course helps students to understand how today, more than ever, economics play a vital role in society. The relationships between nations are more likely today to revolve around economic matters than around every day political affairs of state. Trade and exchange seem to reach into every aspect of our lives through the goods and services we consume and the choices we make in the marketplace and voting booth. **This course will satisfy the New York State Economics requirement for seniors.**

Economics - SUNY



Course Code: 0239
Prerequisite: US History & Government
Term: Semester
Credits: ½
Grade levels: 12

This course is the same as 0212 but 3 college credits are earned from St. John's University if students apply and are accepted to this program. Instruction is at a college level. **See Special Programs, College Advantage Program, for additional information and tuition costs. This course will satisfy the New York State Economics requirement for seniors.**

Government & Genocide



Course Code: 0210
Prerequisite: None
Term: Semester
Credits: ½
Grade levels: 11, 12

Genocide, holocaust, mass-murder - all the preceding have been committed by governments. How could these atrocities have happened? This course will examine government policies and practices in Germany, Cambodia, Turkey, and Iran. Could this happen in the United States? **This course will satisfy the New York State Participation in Government requirement for seniors.**

Psychology



Course Code: 0218
Prerequisite: None
Term: Semester
Credits: ½
Grade levels: 11, 12

Students will examine the fundamental principles of human behavior. Topics include the science of psychology (with emphasis on misunderstood problems), learning theories, personality and emotional development, heredity and environment, mental health, family living, and social attitudes. Activities include psychological investigations and experiments.

History of Now: U.S. 1945 - Present

Course Code: 0220
Prerequisite: None
Term: Fall semester
Credits: ½
Grade levels: 11, 12

This half year course will examine in depth how the United States has arrived as a country where we are today by studying and analyzing key events and people in our nation's history since the end of World War II. Key topics will include (but are not limited to) the end of the WWI, the Cold War, Suburbanization, Korean and Vietnam Wars, 60's counter culture. Civil Rights movement, pop culture, feminism, and all of the presidents and major events from Truman through present day. To help us in our discovery of where we are today, we will use a variety of resources including music, movie clips/videos, primary source documents and pictures among other things. The main emphasis of this course is the intersection of politics, economics, culture and society in post WWII America. **This course will satisfy the New York State Participation in Government requirement for seniors.**

Technology

Department Objectives

ISTE Standards for Students

ISTE Standards (formerly the NETS) for Students (ISTE Standards•S) are the standards for evaluating the skills and knowledge students need to learn effectively and live productively in an increasingly global and digital world.

Simply being able to use technology is no longer enough. Today's students need to be able to use technology to analyze, learn and explore. Digital age skills are vital for preparing students to work, live and contribute to the social and civic fabric of their communities.

ISTE Standards 1: Creativity and Innovation

Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.

ISTE Standards 2: Communication and Collaboration

Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.

ISTE Standards 3: Research and Information Fluency

Students apply digital tools to gather, evaluate, and use information.

ISTE Standards 4: Critical Thinking, Problem Solving and Decision Making

Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.

ISTE Standards 5: Digital Citizenship

Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.

ISTE Standards 6: Technology Operations and Concepts

Students demonstrate a sound understanding of technology concepts, systems, and operations.

Course Offerings

- Comp TIA A+
- Comp TIA A+ Certification 220-901
- Comp TIA A+ Certification 220-902

Course Descriptions

Comp TIA A+ Certification 220-901 – Computer Hardware and Networking Basics

Course Code: 0823
Prerequisite: None
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

This course explores the basic necessary skills for an entry-level IT professional. Students will have the knowledge required to assemble components based on customer requirements. They will learn and understand the basics of networking. Students will also understand the basics of virtualization, desktop imaging and development. Lastly, students will learn how to provide customer support in a professional manner. Students will be preparing to take the Comp TIS A+ 220-901 at the completion of this course.

Comp TIA A+ Certification 220-902 – Maintaining Computer Systems and Troubleshooting

Course Code: 0824
Prerequisite: Comp TIA A+ 220-901
Term: Full year
Credits: 1
Grade levels: 10, 11, 12

This course continues to explore the necessary skills for an entry-level IT professional and builds the Comp TIA 220-901 course. Students will learn how to install, configure and maintain devices, PCs and software for end users. Students will explore the latest trends in security/forensics. Students will learn how to properly and safely diagnose, resolve and document common hardware and software issues and apply troubleshooting skills. Lastly, students will learn how to apply for a job in the IT industry. Students will prepare to take the comp TIA A+ 220-901 exam at the completion of this course.