

Comsewogue High School Course Catalog



2023-2024

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Ms. Jeanine Jorgensen	Class of 2023 and 2025
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Title IX

The Comsewogue School District at 290 Norwood Avenue, Port Jefferson Station, NY 11776, does not discriminate based on 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.

Planning a Successful Academic Program During Course Selections

This guide describes Comsewogue High School course offerings as well as State and Local graduation requirements. Counselor presentations during Social Studies classes, teacher presentations and elective video presentations during lunch periods will be held to assist students in planning their 2023-2024 academic program. 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.

School Code

334-587

This code is used during the college application process, for SAT and ACT exams, etc. This is the code you will put when asked for the High School CEEB code.

Table of Contents

Graduation RequirementsPage 5

NCAA Approved Courses.....Page 6

Advanced Placement ProgramPage 6

Career & Technical Education Programs.....Pages 6-7

College Credit Courses.....Pages 7-10

Art Courses Page 11

Business, Technology and Careers Courses..... Page 15

English CoursesPage 20

Health Courses..... Page 25

Mathematics Courses.....Page 26

Music Courses..... Page 31

Physical Education CoursesPage 34

Science CoursesPage 35

Social Studies CoursesPage 41

World Language CoursesPage 47

New York State and Local Graduation Requirements

Students must pass the following Regents examinations with a score of 65 or higher to graduate. Students who have a 90% or better average on the eight required Regents Examinations & LOTE Checkpoint B Exam may qualify for the Advanced Regents Diploma with Honors.

Regents Diploma	Advanced Regents Diploma
English	English
Social Studies	Social Studies
Math	Algebra I
Science	Geometry
4 + 1 Pathway	Algebra II
	Living Environment
	Earth Science, Chemistry OR Physics
	4 + 1 Pathway
	World Language Checkpoint B

The following minimum number of credits are required for a Local Diploma, Regents Diploma or Advanced Regents Diploma:

Subject Area	Local / Regents / Advanced Regents Diploma Credits Required
English	4
Social Studies	4
Mathematics	3
Science	3
World Language	3
Art / Music	1
Health	0.5
Physical Education	2
Electives	1.5
Total	22

It is strongly recommended that students exceed these requirements in order to become better prepared for college and career-readiness upon graduation from Comsewogue High School.

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.

A course with the NCAA Logo underneath the course code and name delineates a course approved by the NCAA. The logo is the same as the one directly below.



Advanced Placement Program

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
- Psychology
- Calculus AB
- Calculus BC
- Statistics
- Computer Science A
- Computer Science Principles
- Biology
- Environmental Science
- Chemistry
- Physics I
- Physics II
- French Language
- Spanish Language
- [Seminar](#)
- [Research](#)

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 October. For further information, see your Guidance Counselor and visit the College Board website.

Career & 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 that 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 1-6 at BOCES and attend Comsewogue High School for periods 7, 8, and 9. "PM BOCES" means that students will attend Comsewogue High School for periods 1-6 and attend BOCES for periods 7, 8, and 9.

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 Counselor will discuss BOCES offerings for CTE programs with 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.

New Courses

New courses that have been added to the course catalog for the 2023-2024 can be identified by the yellow plus sign shown here:



College Credit 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 five (5) universities: St. John's University, SUNY at Stony Brook, Suffolk County Community College, Farmingdale State College and Long Island University. All courses offered by the four post-secondary institutions carry credit, which may be applicable toward a degree at other colleges/universities.

Please Note: College-level courses are weighted 1.05 and Advanced Placement (AP) classes are weighted 1.10.

College Logos

To correlate with the College Credit Courses, the following logos will be placed next to courses in which college credit is available through a post-secondary institution.



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:

0541 Italian III – SUNY
0542 Italian IV – SUNY
0543 Italian V – SUNY
0535 French III – SUNY
0536 French IV – SUNY
0537 French V – SUNY

0531 Spanish III – SUNY
0532 Spanish IV – SUNY
0533 Spanish V – SUNY
0820 Digital Generations – SUNY
0437 Design Innovation – SUNY

Student Cost: Stony Brook Tuition and fees are waived. Students must only pay a \$300 (2019-2020 fee, subject to change), non-refundable ACE Program fee for each course in which they are enrolled.

There are no provisions for students who need Financial Need. [Additional information about the ACE Program can be found on 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 semester (2020-2021 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:

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

Student Cost: \$325 per semester / \$650 full year. This fee is subject to change each year.

There are no provisions for students who need Financial Need. [Additional information about the College Advantage Program can be found on the St. John's University website.](#)

SUNY Farmingdale State College: University in the High School Program



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:

0248 Criminal Justice – SUNY
0249 Economics – SUNY
0606 Accounting – SUNY

0619 Sports Management – SUNY
0615 Virtual Enterprise – SUNY

Student Cost: \$150 per 3-credit course / \$300 per 6-credit course. This fee is subject to change each year.

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 per course). This fee is subject to change each year. [For additional information on the University in the High School Program, please 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.

The following courses are offered at Comsewogue High School as part of this program:

- Chemistry
- Biology
- Forensic Biology
- Physics I
- Physics II
- Principles of Accounting
- Sports Management
- French
- Spanish
- Statistics

Student Cost: \$171 per 3-credit course / \$228 per 4-credit course.

There are no provisions for students with Financial Need. [More information about the Beacon Program can be found on 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 on the Early College Program, please visit the Suffolk County Community College website.](#)

Long Island University: High School Scholars Program



The LIU High School Scholars Program offers high school students a unique opportunity to accelerate their college education. Through a wide range of dual-credit courses—applicable toward both the high school diploma and a bachelor's degree—LIU High School Scholars earn college credits while studying in their high school classrooms.

[For additional information on the High School Scholars Program, please visit the Long Island University website.](#)



ART

Course Descriptions

0701 | Studio in Art

Full Year, 1 Credit, Grades 9-12

Fine Arts Pathway

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.**

0728 | Studio in Art 1

0729 | Studio in Art 2

Full Year (Alternating Days), 0.5 Credits Each, Grade 9 (0728); Grade 10 (0729)

Fine Arts Pathway

Structured as alternate-day, one-year, half-credit courses for students needing more flexibility in their schedules, Studio in Art 1 and Studio in Art 2 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.**

0740 | Mural Design

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Studio in Art, Drawing & Painting

Fine Arts Pathway

Murals are primarily large-scale artworks on walls or panels designed for public spaces. The curriculum will build from the history of murals to basic drawing, painting, and mosaic skills to visual art concepts such as working to scale, perspective and color theory. The mural theme will be student driven and empower you, the student, to communicate topics and images important to you. Join us as we transform and uplift our school space and inspire through art!

0755 | Studio in Craft Design

Full Year, 1 Credit, Grades 9-12

Fine Arts Pathway

Craft celebrates the handmade and the connection of a culture's history between the people and places where different crafts originate. Students will achieve a basic competence in drawing, painting and sculpture based on folk art styles from around the globe as well as delve into the history of crafts within many societies. This hands-on course will take students through various hand-crafted projects, both functional and decorative. Some of the anticipated media include wood, metal, clay, paper, and ceramic with anticipated projects such as whittled walking sticks, artistic benches, pottery, jewelry, basketry and more. **Successful completion of this course satisfies the New York State Art/Music requirement for graduation.**

0756 | Studio in Craft Design 1

Full Year (Alternating Days), 0.5 Credits, Grades 9-12

Fine Arts Pathway

Structured as alternate-day, one-year, half-credit courses for students needing more flexibility in their schedules, Craft celebrates the handmade and the connection of a culture's history between the people and places where different crafts originate. Students will achieve a basic competence in drawing, painting and sculpture based on folk art styles from around the globe as well as delve into the history of crafts within many societies. This

hands-on course will take students through various hand-crafted projects, both functional and decorative. Some of the anticipated media include wood, metal, clay, paper, and ceramic with anticipated projects such as whittled walking sticks, artistic benches, pottery, jewelry, basketry and more.

Successful completion of this course satisfies the New York State Art/Music requirement for graduation.

0727 | Drawing & Painting

Full Year, 1 Credit, Grades 10-12

Prerequisite: Studio in Art

Fine Arts Pathway

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.

0742 | Advanced Studio Art / Portfolio Prep

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Studio in Art, Drawing & Painting, Mural Design

Fine Arts Pathway

This course expands upon the techniques and ideas developed in Studio in Art with a more concentrated effort and a more varied and in-depth use of media. It will enable the student to do advanced level work in drawing, painting, printmaking, and three-dimensional design with an emphasis on the creative expression of the individual. The contribution of artists and art movements, which have shaped society, will be examined as well. Independent work is encouraged and expected. This class is for the serious-minded art student.

Students who are preparing portfolios will work with the teacher on specialized projects throughout the year. A wide variety of artworks is often required for art school and students are strongly encouraged to begin portfolio development in 10th or 11th grade, of work for Art School. Scholarship opportunity will be discussed.

0707 | Studio in Digital Drafting & Design

Full Year, 1 Credit, Grades 9-12

STEAM Pathway

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, the Studio in Digital Drafting & Design 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.**

0751 | Studio in Digital Drafting & Design 1

0752 | Studio in Digital Drafting & Design 2

Full Year (Alternating Days), 0.5 Credits, Grades 9-12

STEAM Pathway

This class is structured as an alternate-day, one-year, half-credit course for students needing more flexibility in their schedules. 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, the Studio in Digital Drafting & Design 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.**

0739 | Ceramics / Sculpture

Full Year, 1 Credit, Grades 10-12

Prerequisite: Studio in Art

Fine Arts Pathway

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. Students will also 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.

0725 | Advanced Ceramics / Sculpture

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Ceramics / Sculpture

Fine Arts Pathway

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.

0716 | Digital Photography 1

One Semester, 0.5 Credits, Grades 10-12

Fine Arts Pathway

This is an introductory course for digital photography. Students will study how to use a DSLR (Digital Single Lens Reflex) camera and learn basic editing to manipulate and alter images using Photoshop. 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. **This course must be taken with Digital Photography II.**

0717 | Digital Photography 2

One Semester, 0.5 Credits, Grades 10-12

Fine Arts Pathway

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. **This course must be taken with Digital Photography I.**

0718 | Advanced Digital Photography 1

Full Year, 1 Credit, Grades 11 & 12

Prerequisites: Digital Photography I & II

Fine Arts Pathway

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.

0719 | Advanced Digital Photography 2

Full Year, 1 Credit, Grades 11 & 12

Prerequisites: Advanced Digital Photography 1

Fine Arts Pathway

Students in this course 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.

0735 | Video Production

Full Year, 1 Credit, Grades 11 & 12

Fine Arts Pathway

This 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.

0741 | Fashion Design

Full Year, 1 Credit, Grades 10-12

Prerequisites: Studio in Art OR Studio in Digital Drafting & Design OR Studio in Craft Design

This is a beginning course for students who wish to pursue a career in the Fashion and Interior Design world and will provide a groundwork to get into a design school such as FIDM or F.I.T. This industry is booming and students will be introduced to its many aspects including discussions on the business and marketing aspects. Fashion design topics will include gesture and figure drawing, fashion sketching, draping techniques and rendering in colored pencil, marker& watercolor, learning to sew and creation of a simple outfit and jewelry design. Jewelry will include beading, ceramic, and more. All projects will be able to be used for portfolio work in the top Fashion/Interior school. (Students not interested in a career in this field are still welcome to take this course!) College representatives from top schools will present throughout the year.

Note: The following courses can now be found in the Business, Technology and Careers section of this course catalog:

- Studio in Digital Drafting and Design
- Digital Product Design
- Digital Architecture 1
- Digital Architecture 2
- Studio in Computer Graphics



BUSINESS, TECHNOLOGY & CAREERS

Business Academy / CTE Pathway in Business Management and Administration

Required Courses	+	Additional Courses (Select at least 1)	+	NOCTI Exam 8985
Competitive Edge (0.5 credits)		College Business Law (0.5 credits)		Students must earn a passing score on the Virtual Enterprise NOCTI 8985 Exam
Business 360 (0.5 credits)		Sports Management SUNY (0.5 credits)		
Achieving Financial Success OR Accounting (0.5 credits)				
College Marketing (1.0 credits)				
Virtual Enterprise SUNY (1.0 credits)				

Work-Based Learning

Each student who pursues a CTE endorsement must take Competitive Edge (0623) and participate in GEWEP or CO-OP program through the Work-Based Learning Coordinator.

Career & Technical Education Endorsement

Multiple pathways recognize the importance of engaging students in rigorous and relevant academic programs. The regulations approved in 2015 and 2016 recognize students' interests in various areas, such as Career and Technical; Education (CTE).

Under the "4+1" pathway assessment option, students must take and pass four required Regents Exams (one in each of the following subjects: English Language Arts, Mathematics, Science and Social Studies and complete a comparably rigorous pathway to meet the fifth assessment requirement for graduation.

Course Descriptions

0622 | Business 360

One Semester, 0.5 Credits, Grades 10-12

CTE Pathway: Comsewogue Business Academy

Have you ever wondered what successful leaders, corporate visionaries, and innovative entrepreneurs had in common? After enrolling in Business 360, you may discover that you have many of these same qualities. This course is a full circle course, which revolves around the fundamentals of business. In Business 360, students will explore topics in Entrepreneurship, Marketing, Accounting, Business Law, Management, and E-Commerce. In this course, students will have the opportunity to develop a website and create their own business. Additionally, students will gain the leadership and interpersonal skills that will prepare them for college, their future careers, and a lifetime of achievement. Business 360 will introduce concepts in business, and ultimately provide students with the knowledge and skills they need to be college and career ready. **This is a required course for the Business Academy / CTE Pathway in Business Management and Administration.**

0623 | Competitive Edge

One Semester, 0.5 Credits, Grades 10-12

CTE Pathway: Comsewogue Business Academy

Have you ever handed out a resume only to never get an interview? Imagine that your bills are piling up and your job search goes nowhere. What could be the problem? In today's competitive job market, hiring managers are consistently looking for superstars who already have the professional knowledge and skills needed to find success in the workplace. Without knowing who you are and what you have to offer, how can you ever surpass the competition? In Competitive Edge, students will understand the importance of gaining a competitive advantage over the other applicants, and will learn about the various skills they need to be college and career ready. Competitive Edge will provide students with the chance to explore topics in Career Exploration, Interviewing Skills, Resume Writing, Computer Applications, Communications, Negotiations, and Professional Etiquette. Students will also have the opportunity to participate in networking, work experience, and internship opportunities. This course covers the Career and Financial Management curriculum. **This course is**

required for 10th grade students. This is a required course for the Business Academy / CTE Pathway in Business Management and Administration.

0820 | Digital Generations - SUNY

One Semester (Fall Only), 0.5 Credits, Grades 11 & 12

CTE Pathway: Comsewogue Business Academy



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 is the creation of a positive and sustainable web presence and digital profile. Discover how technology and social media impact society now and the future forward.

0626 | Computer Applications

One Semester, 0.5 Credits, Grades 10-12

CTE Pathway: Comsewogue Business Academy

The knowledge of Microsoft Office is an essential skill that almost all employers look for today. Computer Applications is an introductory course, in which students will study computer terminology and software related to the business environment. Additionally, in Computer Applications, students will have the opportunity to have hands-on experience utilizing Microsoft Word, Excel, PowerPoint, and Access. Students will work on various activities and projects that will demonstrate their understanding of Microsoft Office, and prepare them to use these skills to find success in their future careers.

0826 | CISCO: IT Essentials

One Semester, 0.5 credits, Grades 11 & 12

Careers Pathway

The Cisco Networking Academy® IT Essentials curriculum introduces the technical skills needed to help meet the growing demand for entry-level ICT

(Information and Communication Technology) professionals. The curriculum covers the basics of computers, mobile device hardware, and software, while introducing advanced security and networking concepts and the responsibilities of an ICT professional.

0437 | Design Innovation

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Living Environment and Chemistry

STEAM Pathway



This course introduces students to the process of engineering design and provides a project-based design experience wherein the students design, build and program a microcontroller driven autonomous mechatronic device. In doing so, they are provided an early exposure to the systematic approach to engineering problem solving that brings together fundamental concepts of forces, motions, energy, materials, manufacturing processes and machines and mechanism from Mechanical Engineering and basic electronics, sensing, actuation and Computer Programming.

0635 | Achieving Financial Success

One Semester, 0.5 Credits, Grades 10-12

CTE Pathway: Comsewogue Business Academy

This course provides students with the essential knowledge and skills they need to prepare them for college, their future careers, and a lifetime of success. In this course, students explore a career based on their interests and then learn how to successfully research and apply for a job. In addition, students in this course will learn about the importance of finances and the significance of financial responsibility. Topics of study discussed include money, budgeting, banking, credit, insurance, investing and financial planning. In this course, students will have the opportunity to work with various guest speakers from professional industry and participate in mock interviews, networking events, and internship opportunities. **This course provides students with the opportunity to earn WISE financial certification.**

0625 | Sports Management - SUNY

One Semester, 0.5 Credits, Grades 11 & 12

CTE Pathway: Comsewogue Business Academy



Do you have an interest in working in the sports industry? Does a career in coaching or management interest you? The sports and entertainment industry are major business enterprises, and areas such as sports marketing, sponsorship, and sports media are expected to continue to grow over the next several years. In Sports Management, students will explore various topics related to the business of sports, which include the functions of management, skills required for a sport manager, and the value of athletic programs. Students will also learn about various elements of the sports and entertainment industry, and apply their knowledge to the creation of their own sports team. **Students may earn 3 college credits through SUNY Farmingdale.**

0608 | College Business Law

One Semester, 0.5 Credits, Grades 11 & 12

CTE Pathway: Comsewogue Business Academy



Business Law is designed to have students learn and apply the fundamental legal principles behind criminal law, tort law and contractual law. Students will be engaged in up-to-date legal issues that will be used to apply taught legal principles to these current cases. This course will explore legal issues such as marriage (family law), employment law, real estate (property) law, corporate law and contract law, with the use of the internet and presentations from guest speakers. It is beneficial for students who will attend college and pursue a career in law, business administration or accounting. **Students may earn up to 3 college credits through Long Island University.**

0606S | Accounting

One Semester, 0.5 credits, Grades 11 & 12

CTE Pathway: Comsewogue Business Academy

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.

0221 | Introduction to Teaching

Full Year, 1 Credit, Grades 11 & 12

Careers Pathway

Students will develop their own teaching philosophy, explore the history of education, research famous educational psychologists, examine human growth and development, study various methods of teaching and delivery and analyze specialized education and teaching trends. This course primarily uses a PBL (project-based learning) approach while integrating technology, academic skills and professionalism. The final project will be a service learning experience where the students will perform a demonstration lesson in professional attire at another school within Comsewogue School District. This course will also have an alternating day lab period attached to it.

0629 | College Marketing

Full Year, 1 Credit, Grades 11 & 12

CTE Pathway: Comsewogue Business Academy



Marketing is one of the coolest, most important parts of running a successful business. In fact, companies spend millions of dollars on marketing campaigns, advertisements, and promotions. If you've ever wondered how companies reach their customers, sell their products or services, and make a profit, then Marketing is the course for you! The goal of this course is to provide a rigorous and comprehensive introduction to marketing practice. In this class, students will learn how to analyze business situations, use marketing strategies to appeal to customers, and understand the overall influence marketing has on a company's success. In addition, students will have the opportunity to develop their own marketing campaigns, create commercials and advertisements, and even participate in focus groups and case studies. This course will also include small group exercises, various guest speakers, and project-based assignments. **Students in this course are eligible**

to earn up to 3 college credits from St. John's University. This is a required course for the Business Academy / CTE Pathway in Business Management and Administration.

0615 | Virtual Enterprise - SUNY

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Business 360

**CTE Pathway: Comsewogue Business Academy
Capstone Course**



Have you ever wondered what it is like to work in an actual business? Virtual Enterprise is an international business simulation program that has students create and manage their very own virtual business. In VE, students take on the role of employees and are involved in actual "on-the-job" work experiences, including sales, marketing, accounting, personnel management, etc. The only difference between VE and actual business, is that no material goods are produced or real money is exchanged. In this course, students are expected to work individually and as a member of a team in order to fulfill the responsibilities and tasks associated with their department. Virtual Enterprise provides students with opportunities of a lifetime, which include participating in trade shows, attending competitions, and even consideration for scholarships. [Website](#), [Promo Video](#). **This is a required course for the Business Academy / CTE Pathway in Business Management and Administration.**

Students enrolled in Virtual Enterprise may earn up to six (6) college credits through SUNY Farmingdale. Students in their second year of Virtual Enterprise (enrolling again) can earn High School Credit or six (6) college credits through Long Island University.

0707 | Studio in Digital Drafting & Design

Full Year, 1 Credit, Grades 9-12

STEAM Pathway

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, the Studio in Digital Drafting & Design 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.**

0751 | Studio in Digital Drafting & Design 1

0752 | Studio in Digital Drafting & Design 2

Full Year (Alternating Days), 0.5 Credits, Grades 9-12

STEAM Pathway

This class is structured as an alternate-day, one-year, half-credit course for students needing more flexibility in their schedules. 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, the Studio in Digital Drafting & Design 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.**

0708 | Digital Product Design

Full Year, 1 Credit, Grades 10-12

Prerequisite: Studio in Digital Drafting & Design

STEAM Pathway

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.

0709 | Digital Architecture 1

Full Year, 1 Credit, Grades 11 & 12

Prerequisites: Studio in Digital Drafting & Design; Digital Product Design or Teacher Recommendation

STEAM Pathway

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.

0715 | Digital Architecture 2

Full Year, 1 Credit, Grades 11 & 12

Prerequisites: Digital Architecture 1 or Teacher Recommendation

STEAM Pathway

This advanced course is a continuation of Digital Architecture 1. Assignments are based on residential and commercial structures. However, students will apply more sophisticated elements of design to the blueprints.

0754 | Studio in Computer Graphics

One Semester, 0.5 Credits, Grades 11 & 12

STEAM Pathway

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, Dreamweaver, 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.



ENGLISH

Grade 9

English 9

English 9H



Grade 10

English 10

English 10 Honors
OR
AP Capstone Seminar



Grade 11

English 11

English 11 Honors
OR
AP English Language
& Composition



Grade 12

English Elective(s)

Choose 1:
AP English Literature
& Composition
English 12 CAP

Electives

- Broadcast Media & Journalism
- Sports Literature
- Science Fiction / Horror
- Contemporary Issues in Fiction and Non-Fiction
- Creative Writing I
- Creative Writing II

Course Descriptions

0104 | Freshman Seminar

Full Year (Alternating Days), 0.5 Credits, Grade 9

Freshman Seminar is a class designed to help all students make a successful transition from middle school to high school. This class will teach students the skills necessary to thrive academically, educationally and emotionally at Comsewogue High School and beyond. An every other day class (A/B), Seminar will focus on the following: establishing a successful mindset, personal organization, time management, self-advocacy, technological skills, problem solving skills and digital citizenship. **This is a required course for all 9th grade students.**

0102 | English 9

Full Year, 1 Credit, Grade 9

Prerequisite: English 8



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. **This course will include an alternate day writing workshop.**

0103 | English 9H

Full Year, 1 Credit, Grade 9

Prerequisite: English 8



English 9H 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. **This course will include an alternate day writing workshop.**

0106 | English 10

Full Year, 1 Credit, Grade 10

Prerequisite: English 9



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.

0105 | English 10 Honors

Full Year, 1 Credit, Grade 10

Prerequisite: English 9H or English 9 with a Grade of 90 or Higher, Teacher Recommendation



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.

0117 | Advanced Placement Seminar

Full Year, 1 Credit, Grades 10-12

Prerequisite: English 9H

AP Seminar take in Grade 10 satisfies the English requirement for Grade 10. AP Seminar taken in Grades 11 or 12 serves as an elective credit.



AP Capstone is an innovative program that allows students to engage in a rigorous development of the critical skills necessary for success in college. The program of study includes a two-course sequence: AP Seminar and AP Research. Students enrolled in AP Seminar will learn how to investigate real-world

topics from multiple perspectives. Students will carefully analyze information, write evidence-based arguments and effectively communicate them to others. Using an inquiry framework, students practice reading and analyzing articles, research studies and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team.

0149 | English 11

Full Year, 1 Credit, Grade 11

Prerequisite: English 10



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.**

0130 | American Civilization - English

Full Year, 1 Credit, Grade 11

Prerequisite: One of English 10 or English 10 Honors with a Grade of 90 or Higher AND One of Global History & Geography II, Global History & Geography II Honors, or Advanced Placement World History, Teacher Recommendation

Required Corequisite: American Civilization – Social Studies



This will be a 2-period course taught by a teacher from the English Department and a teacher from the Social Studies Department. Addressing the New York State Learning Standards in both English Language Arts and Social Studies, this course will foster interdisciplinary scholarly inquiry by providing

in-depth study of the literature and major events of American civilization. Units include Colonial America, the Federalist Era, The American Renaissance, the Industrial Revolution and America's growth and problems in the 21st Century. Students will take both the New York State Comprehensive English Regents and the United States History and Government Regents. Passing both Regents is required for a high school diploma.

0148 | English 11 Honors

Full Year, 1 Credit, Grades 10 & 11

Prerequisite: English 10 or English 10 Honors with a Grade of 90 or Higher, Teacher Recommendation



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.**

0116 | Advanced Placement English Language and Composition

Full Year, 1 Credit, Grade 11

Prerequisite: English 11 or English 11 Honors, Grade of 90 or Higher in English in Grades 9, 10 and 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.

0136 | English CAP

Full Year, 1 Credit, Grade 12

Prerequisite: English 11 or English 11 Honors, Grade of 90 or Higher in English in Grades 9, 10 and 11; English Regents Grade of 90 (Mastery) or Higher, a minimum of 1,000 on Critical Reading and Mathematics on PSAT or SAT, Teacher Recommendation



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.

0115 | Advanced Placement English Literature and Composition

Full Year, 1 Credit, Grade 12

Prerequisite: English 11 or English 11 Honors, Grade of 90 or Higher in English in Grades 9, 10 and 11, Teacher Recommendations and AP Selection Committee Approval, English Regents Grade of 90 (Mastery) or Higher



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 texts, 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.

0120 | Contemporary Issues in Fiction and Non-Fiction

Full Year, 1 Credit, Grade 12

Prerequisite: English 11



This course will explore both fiction and nonfiction works that help students build empathy and awareness through reading. The curriculum will focus on relevant adolescent experiences and issues while encouraging students to become critical thinkers and writers through their connections to the texts. This class is designed to expose students to a pre-college level of reading, discussion, and analysis of literature. A research paper/project will be required. This course satisfies the required English 12 credit for graduation.

0121 | Sports Literature

Full Year, 1 Credit, Grade 12

Prerequisite: English 11



This course explores how sports began to take hold of the American imagination over 100 years ago and

how it impacted literature and culture. The class will focus on themes of heroism, pride, identity, perseverance, and camaraderie. Sports bring people together and create a sense of community. Fans admire competitors' skills and talents, applaud great victories, and revel in underdog stories of triumph. Students will read, write, and discuss topics in sports that relate to and advance an understanding of our culture from the perspective of athletics. A research paper/project will be required. This course satisfies the required English 12 credit for graduation.

0122 | Science Fiction / Horror

Full Year, 1 Credit, Grade 12

Prerequisite: English 11



Ready for a scare? How about blasting off to another galaxy? The purpose of this course is to explore the connections between modern society and the science fiction and horror genres of literature. Students will read two novellas or a novel, several short stories and watch films adapted from the required texts. Students will be expected to explore themes, writing style, and cultural commentary of the works studied. Reading literature, writing about comparisons, and presentations will be the major focus of the course, with a research component required. This course satisfies the required English 12 credit for graduation.

0124 | Creative Writing I

One Semester, 0.5 Credits, Grades 10-12

Prerequisite: English 9

Careers Pathway



Creative Writing I focuses on narrative and short fiction. Students will develop their writing skills and voice by creating, revising, and editing short fiction. Students will choose one piece to publish in the school's literary magazine.

0125 | Creative Writing II

One Semester, 0.5 Credits, Grades 10-12

Prerequisite: English 9

Careers Pathway



Creative Writing II will focus on memoir and poetry. Students will develop their writing voices, attention to detail, and language skills. Students will choose one piece of writing to submit to the school's literary magazine.

0189 | Journalism

Full Year, 1 Credit, Grades 11 & 12

Careers Pathway



This is a great class for those who want to become better speakers, writers, and communicators, and for all who wish to learn more about communications fields like broadcasting, film, journalism, and social media. In a newsroom setting, students perform a variety of tasks; they will write, edit and produce and even broadcast their stories in various forms including, but not limited to, print, radio, video, websites and podcasts. Speaking skills include poise, scripting speeches and clips, microphone work, voice-over audio for videos and interviewing skills. This course will cover interviewing techniques, research procedures, career opportunities and freedom of the press, as well as the production, editing and social skills associated with broadcasting. Students will create their own story ideas, design layouts, write features, interviews, editorials, and copy, and work with the audio video class to create screen tests, feature videos and broadcasts. We will also discuss journalism ethics and expand our skills into 21st century media, such as YouTube channels, podcasts, social media, etc. **If this course is taken in 11th grade, it will count as an elective credit. If this course is taken in 12th grade, it can be counted as an elective or used to fulfill the English 12 requirement.**



HEALTH

Course Descriptions

1407 | Health (Semester)

1408 | Health (Full Year, Alternating Days)

1407: One Semester / 1408: Full Year, Alternating A or B Days; 0.5 Credits, Grade 10

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.

1404 | Human Anatomy

One Semester, 0.5 Credits, Grades 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.



MATHEMATICS

Grade 8

Math 8

Algebra I



Grade 9

Algebra I

Geometry Honors



Grade 10

Geometry OR
Geometry with Lab

Algebra II Honors



Grade 11

Choose 1:
Algebra II
Algebra II with Lab
Foundations in
Advanced Algebra

Precalculus Honors



Grade 12

Choose 1:
Functions & Statistics
Precalculus

Choose 1:
AP Calculus AB
AP Calculus BC
AP Statistics

Electives

- Introduction to Computer Languages
- Introduction to STEAM
- Advanced Placement Computer Science A
- Advanced Placement Computer Science Principles
- Advanced Placement Statistics

Course Descriptions

0342 | Algebra I

Full Year, 1 Credit, Grade 9

Prerequisite: 8th Grade Mathematics (Pre-Algebra)



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.

0343 | Algebra I with Lab

Full Year, 1 Credit, Grade 9

Prerequisite: 8th Grade Mathematics (Pre-Integrated Algebra)



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.

0344 | Geometry

Full Year, 1 Credit, Grade 10

Prerequisite: 9th Grade Mathematics (Algebra)



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.

0345 | Geometry with Lab

Full Year, 1 Credit, Grade 10

Prerequisite: 9th Grade Mathematics (Algebra)



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.**

0355T | Geometry Honors

Full Year, 1 Credit, Grades 9 (Accelerated) & 10

Prerequisite: 9th Grade Mathematics (Algebra) with a grade of 85 or higher



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.

0371 | Foundations in Advanced Algebra

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Geometry



This is a one-year course that 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.

0366 | Algebra II

Full Year, 1 Credit, Grade 11

Prerequisite: Passing Course and Regents in Algebra I and Geometry; Teacher Recommendation



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 topics that are more advanced. 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.

0367 | Algebra II with Lab

Full Year, 1 Credit, Grade 11

Prerequisite: Passing Course and Regents in Algebra I and Geometry; Teacher Recommendation



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.

0348T | Algebra II Honors

Full Year, 1 Credit, Grade 10 (Accelerated)

Prerequisite: 85 or Higher in Algebra I & Geometry Courses and Algebra I & Geometry Regents Exams



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.

0377 | Functions and Statistics

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Three years of High School Mathematics



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.

0341 | Advanced Algebra

Full Year, 1 Credit, Grade 12

Prerequisite: Completion of 2 Math Credits



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.

0313 | Precalculus

Full Year, 1 Credit, Grade 11

Prerequisite: 85 or Higher in Algebra I, Passing Algebra II, Teacher Recommendation



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.

0311 | Precalculus Honors

Full Year, 1 Credit, Grade 11

Prerequisite: 85 or Higher in Algebra I, Geometry and Algebra II Honors; 85 or Higher on the Algebra I, Geometry and Algebra II Regents Examinations, Teacher Recommendation



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.

0314 | Advanced Placement Calculus AB

Full Year, 1 Credit, Grade 12

Prerequisite: Precalculus, Teacher Recommendations and AP Selection Committee Approval



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

0315 | Advanced Placement Calculus BC

Full Year, 1 Credit, Grade 12

Prerequisite: Precalculus, Teacher Recommendations and AP Selection Committee Approval



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.

0353 | Advanced Placement Statistics

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Precalculus or AP Calculus (co-enrollment), Teacher Recommendations and AP Selection Committee Approval



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; and 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.

0375 | Introduction to STEAM

One Semester, 0.5 Credits, Grades 10-12

Prerequisite: Algebra I

STEAM Pathway

This course introduces students to the five areas of STEAM (Science, Technology, Engineering, Arts and Mathematics) through an interdisciplinary approach that will increase awareness, build knowledge, develop problem-solving skills, and potentially awaken an interest in pursuing a career in STEAM. The course will focus on projects what will incorporate learning engineering design process,

basic coding skills, develop problem-solving strategies and incorporate a variety of technology. **This course must be taken with Introduction to Computer Languages.**

0376 | Introduction to Computer Languages

One Semester, 0.5 Credits, Grades 10-12

Prerequisite: Algebra I

STEAM Pathway

This course is an introductory course to computer programming. Students will create interactive programs and games using Python, while learning about functions, loops, classes and a number of different aspects of coding. The micro:bit will be used as a way to help students bring their codes and programs to life. **This course must be taken with Introduction to STEAM.**

0321 | Advanced Placement Computer Science A

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Precalculus or AP Calculus (co-enrollment), Teacher Recommendations and AP Selection Committee Approval

STEAM Pathway



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.

0374 | Advanced Placement Computer Science Principles

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Algebra I

STEAM Pathway



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.

MUSIC

Course Descriptions

0903 | Concert Chorus (Every Day) **0964 | Concert Chorus (Alternate Days)**

Full Year or Full Year Alternate Day, 1 Credit (Every Day) / 0.5 Credits (Alternate Days), Grades 9 & 10

Fine Arts Pathway

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 0912, Applied Music).

0905 | Chamber Choir (Every Day) **0965 | Chamber Choir (Alternate Days)**

Full Year or Full Year Alternate Day, 1 Credit (Every Day) / 0.5 Credits (Alternate Days), Grades 11 & 12

Prerequisite: Concert Chorus, Teacher Recommendation

Fine Arts Pathway

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 0912, Applied Music).

0931 | Concert Band (Every Day) **0962 | Concert Band (Alternate Days)**

Full Year or Full Year Alternate Day, 1 Credit (Every Day) / 0.5 Credits (Alternate Days), Grades 9 & 10

Prerequisite: Successful Audition, Prior ensemble experience or individual instruction

Fine Arts Pathway

The Comsewogue High School Concert 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 0912, Applied Music).

0920 | Symphonic Band (Every Day) **0960 | Symphonic Band (Alternate Days)**

Full Year or Full Year Alternate Day, 1 Credit (Every Day) / 0.5 Credits (Alternate Days), Grades 11 & 12

Prerequisite: Successful Audition, Prior ensemble experience or individual instruction

Fine Arts Pathway

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 0912, Applied Music).

0932 | Concert Orchestra (Every Day)
0963 | Concert Orchestra (Alternate Days)

Full Year or Full Year Alternate Day, 1 Credit (Every Day) / 0.5 Credits (Alternate Days), Grades 9 & 10
Prerequisite: Audition to demonstrate proficiency at NYSSMA "Grade 3" Level

Fine Arts Pathway

The Comsewogue High School Concert 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 0912, Applied Music).

0922 | Symphonic Orchestra (Every Day)
0961 | Symphonic Orchestra (Alternate Days)

Full Year or Full Year Alternate Days, 1 Credit (Every Day) / 0.5 Credits (Alternate Days), Grades 11 & 12
Prerequisite: Audition to demonstrate proficiency at NYSSMA "Grade 3" Level

Fine Arts Pathway

The Comsewogue High School Symphonic 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 0912, Applied Music).

0907 | Fundamentals of Performing Arts

Full Year, 1 Credit, Grades 9-12
Prerequisite: Teacher Recommendation

Fine Arts Pathway

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.

0908 | Fundamentals of Performing Arts (Alternate Days)

Full Year (Alternate Days), 0.5 Credits, Grades 9-12
Prerequisite: Teacher Recommendation

Fine Arts Pathway

Structured as alternate-day, one-year, half-credit courses for students needing more flexibility in their schedules, 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.

0906 | Music Theory

Full Year, 1 Credit, Grades 11 & 12
Prerequisite: Teacher Recommendation

Fine Arts Pathway

This course runs every other year. It will not run in 2023-2024; however, it will run in the 2024-2025 school year. Please see more information at the end of this section.

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.

0912 | Applied Music

Full Year, 1 Credit, Grades 9-12

Prerequisite: Minimum of 1 Year of Private Music Instruction

Fine Arts Pathway

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.

0967 | Audio Production

Full Year, 1 Credit, Grades 10-12

Prerequisite: Minimum of 1 Year of Private Music Instruction

Fine Arts Pathway

The purpose of Audio Production class is to introduce and foster the study and practice where technology and music worlds intersect. This class can serve all of the following: the student with no prior musical experience, for students who already study an instrument in school, for students who take private lessons or for students who have learned about music or an instrument in a less formal fashion.

This program seeks to expand the students' horizons as far as musical taste and exposure.

Please Note: Music Theory (0906) and Music Appreciation (0950) will run on opposite years. Music Appreciation will next be offered in the 2023-2024 school year, and Music Theory will next be offered in the 2024-2025 school year.

Students will be provided hands-on experience with technology in order to gain a first-hand understanding of the cutting-edge innovations that exist in the Music Technology realm. They will be able to demonstrate how technology can be used to aid in the recording and presentation of acoustic instruments as well as how electronic music can be produced or recorded. Such music creation will be explored for the variety of purposes in which it can be heard today.

This course will explore the fundamentals of creating and organizing music with computers. This is a project-based class in which students will use Logic Pro X to create and arrange music.

Students will learn how to manipulate music by creating medley mixes, music re-arranging, and exploring the digital world of music. Digital audio, MIDI and the sound recording booth will be used and incorporated to create music files. Students will learn basic concepts on making beats and music patterns to be used in music production. Keyboard skills are helpful but not necessary.

0952 | The History of Rock

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Minimum of 1 Year of Private Music Instruction

Fine Arts Pathway

This course runs every other year. It will run in 2023-2024; however, it will not run in the 2024-2025 school year. Please see more information at the end of this section.

The History of Rock will cover The Beatles, Queen, Pink Floyd, Black Sabbath, Nirvana and many of the other artists and bands who have influenced out music and culture. Grading will be based on classwork and participation. Being able to read music and/or play an instrument is not a prerequisite for this course.



PHYSICAL EDUCATION

Course Descriptions

1114 | Physical Education 9

Full Year (Alternating Days), 0.5 Credits, Grade 9



This course exposes students to various physical education courses offered and emphasizes participation in team sports and personal fitness, including the ten recognized fitness domains: Cardiovascular and Respiratory endurance, Stamina, Strength, Flexibility, Power, Speed, Coordination, Agility, Balance, and Accuracy. The Project Adventure unit aids in student development of greater self-confidence and builds on trust and commitment with classmates.

1131 | Physical Education 10-12

Full Year (Alternating Days), 0.5 Credits, Grades 10-12

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.

1151 | P.E. Mind & Body Wellness

Full Year (Alternating Days), 0.5 Credits, Grades 10-12

A full year physical education class that will focus on individual fitness activities and overall health and well-being. Some classes will be discussion based. Activities may include: walking/jogging, yoga, meditation, HITT (high intensity interval training) workouts, strength and agility workouts and cycling. Discussion based classes may include: Nutrition and the relationship between nutrients, food, health and disease, different eating styles/diets

(keto, vegan, vegetarian, paleo, fasted eating), Organic vs Non-Organic foods, the food industry, current trends in the nutrition/food space and the mind body connection.

1161 | Adventure Education

Full Year (Alternating Days), 0.5 Credits, Grades 10-12

This adventure course will explore various warmup games, trust-building exercises, group initiatives and problem-solving activities. The students will develop the necessary skills needed to complete the low and high challenge course. Leadership and communication skills will be enhanced through team-building activities.

1128 | Weight Training & Fitness

Full Year (Alternating Days), 0.5 Credits, Grades 10-12

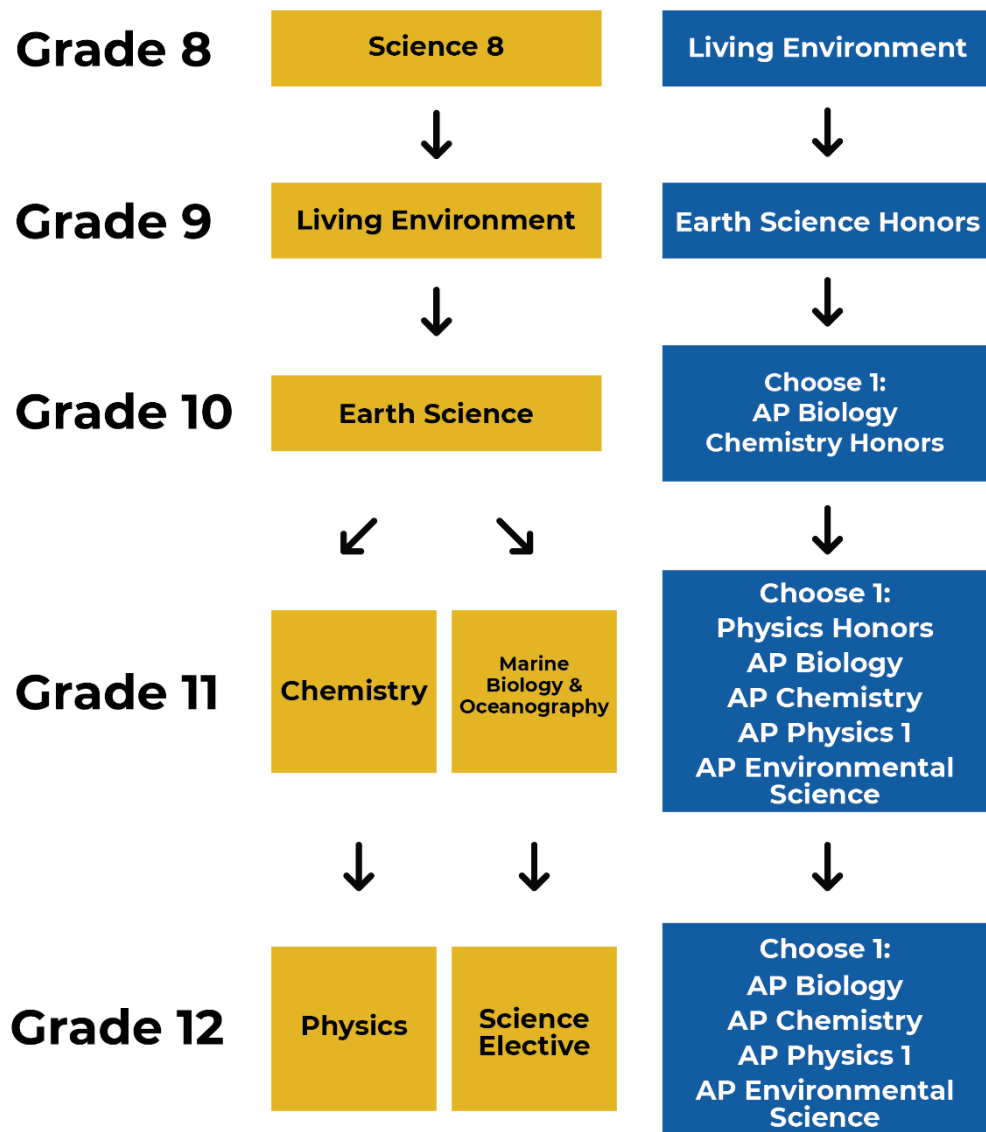


This course is designed to educate students in the principles of strength and conditioning that they will be able to apply to their life well after they graduate from High School. Students will gain knowledge in such areas as: Progressive overload, proper lifting techniques for compound movements, the importance of diet, rest and mental well-being, and flexibility and joint mobility techniques.

Students will also learn how to incorporate the FITT formula into their workout as well as understand the difference between muscular strength vs muscular endurance and how to develop and implement these principles into real time workouts to help them achieve specific fitness goals.



SCIENCE



Electives

- Astronomy
- Forensic Science
- Conceptual Physics
- Child & Adolescent Development
- Health Professions

Course Descriptions

0421 | Living Environment

Full Year with additional A/B Day lab period, 1 Credit, Grade 9
Prerequisite: Life Science (8th Grade)



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.

0407 | Advanced Placement Biology

Full Year with additional A/B Day lab period, 1 Credit, Grades 11 & 12
Prerequisite: Living Environment with a minimum grade of 90, Chemistry or Chemistry Honors with a minimum grade of 90, Teacher Recommendation and AP Selection approval



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.

0423 | Physical Setting / Earth Science

Full Year with additional A/B Day lab period, 1 Credit, Grades 9-12
Prerequisite: Living Environment



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 New York State.

0432 | Physical Setting / Earth Science Honors

Full Year with additional A/B Day lab period, 1 Credit, Grades 9-12
Prerequisite: Living Environment



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.

0433 | Advanced Placement Environmental Science

Full Year with additional A/B Day lab period, 1 Credit, Grades 11 & 12

Prerequisite: Living Environment with a minimum grade of 90, one Physical Science (Chemistry, Physics or Earth Science) with a minimum grade of 90, Teacher Recommendations and AP Selection Committee Approval



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.

0409 | Physical Setting / Chemistry

Full Year with additional A/B Day lab period, 1 Credit, Grades 9-12

Prerequisite: Living Environment or Earth Science; Passing Mathematics



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 New York State.

0410 | Physical Setting / Chemistry Honors

Full Year with additional A/B Day lab period, 1 Credit, Grades 9-12

Prerequisite: Living Environment or Earth Science with a minimum grade of 85; Passing Mathematics with a minimum grade of 85, Teacher Recommendation



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 New York State.

0411 | Advanced Placement Chemistry

Full Year with additional A/B Day lab period, 1 Credit, Grades 10-12

Prerequisite: Chemistry or Chemistry Honors with a minimum grade of 90, Teacher Recommendations and AP Selection Committee Approval



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.

0412 | Physical Setting / Physics

Full Year with additional A/B Day lab period, 1 Credit, Grades 10-12

Prerequisite: Earth Science or Chemistry or Chemistry Honors, Passing Mathematics



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.

0416 | Physical Setting / Physics Honors

Full Year with additional A/B Day lab period, 1 Credit, Grades 10-12

Prerequisite: Earth Science or Chemistry or Chemistry Honors with a minimum grade of 85, Passing Mathematics with a minimum grade of 85, Teacher Recommendation



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 New York State.

0413 | Advanced Placement Physics I

Full Year with additional A/B Day lab period, 1 Credit, Grades 10-12

Prerequisite: Earth Science or Chemistry or Chemistry Honors with a minimum grade of 85, Passing Mathematics with a minimum grade of 85, Teacher Recommendation



AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational and oscillatory motion); work, energy, and power. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students should have completed geometry and be, at least, concurrently taking Algebra II. The course and the AP Physics 1 exam administered in May is significantly focused on thinking, reasoning, and applying physics concepts to situations, as well as writing clearly justified explanations. The course is intended to have students develop a deep, conceptual understanding of physics concepts and is significantly reduced in the application of mathematical formulas typically found in a traditional, college level physics course.

0414 | Advanced Placement Physics II

Full Year with additional A/B Day lab period, 1 Credit, Grades 10-12

Prerequisite: Physics or AP Physics I with a minimum grade of 90, Earth Science or Chemistry or Chemistry Honors with a minimum grade of 90, Passing, Teacher Recommendation, AP Selection Committee Approval



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.

0418 | Advanced Placement Research

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Advanced Placement Seminar

This is a science elective credit, however it is not considered one of the three required science credits for graduation.



AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue or idea of individual interest. Students design, plan and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing and synthesizing information. Students reflect on their skill development, document their processes and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000 to 5,000 words (accomplished by a performance, exhibit or product where applicable) and a presentation with an oral defense.

0424 | Astronomy

One Semester, 0.5 Credits, Grades 11 & 12

Prerequisite: Living Environment and one Physical Setting Science

Careers Pathway



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.**

0419 | Conceptual Physics

One Semester, 0.5 Credits, Grades 11 & 12

Prerequisite: Living Environment and (1) Physical Setting Science

Careers Pathway



This course will examine many of the central concepts of a traditional physics course through the use of common English and a focus on developing a conceptual foundation through interactive, hands-on, and discovery activities. The course de-emphasizes the use of mathematical formulas/equations and shall be geared for students to enhance their understanding of the basic laws and rules of the physical world that connect and apply to many STEAM (Science, Technology, Engineering, Arts, and Mathematics) pathways. The course will be divided into two main units; Mechanics and Electricity. The basic topics covered in the unit of Mechanics will focus on the comprehension of velocity, acceleration, forces, momentum, energy, and rotation. The unity of Electricity will focus on static and current electricity, electric circuits, and magnetism. **This course may be combined with another semester science elective to satisfy the 3rd year of science requirement for graduation.**

0425 | Forensic Science

One Semester, 0.5 Credits, Grades 11 & 12

Prerequisite: Living Environment and (1) Physical Setting Science

Careers Pathway



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.**

0439 | Marine Biology & Oceanography

Full Year, 1 Credit, Grade 11

Prerequisite: Passing grade in Living Environment and Earth Science

Careers Pathway



This course will combine Oceanography and Marine Biology over 2 semesters, focusing on marine life in various marine ecosystems along with the physical and chemical properties of the marine environment. Students will learn the ecological significance, evolutionary relationships and the commercial value of marine organisms and plants. Focus will be on the anatomy and behavior of the marine vertebrae within each phylum (plankton, seaweed, cnidaria, crustacean, cartilaginous fish, bony fish and marine mammals). Emphasis will be placed on human impact within the marine environment and its economic value. All of the topics covered within Oceanography and Marine Biology will be related to the Long Island Sound and our local environment.

0436 | Child & Adolescent Development

One Semester, 0.5 Credit, Grades 11 & 12

Careers Pathway



This course explains human reproduction, human development and related topics. Topics include cellular reproduction, reproductive systems, menstrual cycle, fertilization, implantation, embryonic development and birth. A good amount of time will also be spent learning about the major milestones of the first year or life through the toddler and preschool years. Additional topics such as fertility, multiple births, reproductive technology, detecting genetic disorders and bioethics will be discussed. This course is suitable for students who have an interest in medical or education fields.

0434 | Health Professions

One Semester, 0.5 Credits, Grades 11 & 12

Careers Pathway



This course would expose those students who are thinking about becoming a person working in the health/medical field to a wide variety of career pathways. Most college students have some sort of idea on doctor or nurse they want to become, but specialize in something completely different. This course will enable students to see healthcare science, concepts of health/wellness, and preventative care. Students would be exposed to the various different jobs that are in the healthcare industry and shown what it takes to become one of these individuals. Local healthcare workers would be asked to create a short PowerPoint explanation of their daily routine to display to the prospective students and take questions from the students.



SOCIAL STUDIES

Grade 9

**Global History &
Geography I**

**Global History &
Geography I Honors**



Grade 10

**Global History &
Geography II**

**Global History &
Geography II Honors
OR
AP World History**



Grade 11

**United States History
& Government**

**AP United States
History**



Grade 12

**Choose 1:
Economics
SUNY Economics**

AND

**Choose 1:
Criminal Justice
SUNY Criminal Justice
Government & Genocide
History of Now
AP United States
Government & Politics**

Electives

- Psychology
- Advanced Placement Psychology
- Government & Genocide
- History of Now: United States 1945-Present
- Mock Trial and Debate
- Sociology and Global Ethics

Course Descriptions

0202 | Global History & Geography I

Full Year, 1 Credit, Grade 9

Prerequisite: 8th Grade Social Studies



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.

0201 | Global History & Geography I Honors

Full Year, 1 Credit, Grade 9

Prerequisite: 8th Grade Social Studies, Teacher Recommendation



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

0205 | Global History & Geography II

Full Year, 1 Credit, Grade 10

Prerequisite: Global History & Geography I



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.

0204 | Global History & Geography II Honors

Full Year, 1 Credit, Grade 10

Prerequisite: Global History & Geography I with a minimum grade of 85



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.

0214 | Advanced Placement World History: Modern

Full Year, 1 Credit, Grades 10-12

Prerequisite: One or more years of high school Social Studies with a minimum grade of 90 in each course, Teacher Recommendations and AP Selection Committee Approval



This rigorous college-level World History course is organized chronologically from 1200 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.

0208 | United States History & Government

Full Year, 1 Credit, Grade 11

Prerequisite: Global History & Geography II



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.

0207 | United States History & Government Honors

Full Year, 1 Credit, Grade 11

Prerequisite: Global History & Geography II with a minimum grade of 85, Teacher Recommendation



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.

0215 | Advanced Placement United States History

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Grade of 90 or higher in Global History and a Grade of 90 or higher on the Global History Regents Exam



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.

0222 | American Civilization – Social Studies

Full Year, 1 Credit, Grade 11

Prerequisite: One of English 10 or English 10 Honors with a Grade of 90 or Higher AND One of Global History & Geography II, Global History & Geography II Honors, or Advanced Placement World History, Teacher Recommendation

Required Corequisite: American Civilization - English



This will be a 2-period course taught by a teacher from the English Department and a teacher from the Social Studies Department. Addressing the New York State Learning Standards in both English Language Arts and Social Studies, this course will foster interdisciplinary scholarly inquiry by providing in-depth study of the literature and major events of American civilization. Units include Colonial America, the Federalist Era, The American Renaissance, the Industrial Revolution and America's growth and problems in the 21st Century. Students will take both the New York State Comprehensive English Regents and the United States History and Government Regents. Passing both Regents is required for a high school diploma.

0237 | Advanced Placement United States Government & Politics

Full Year, 1 Credit, Grade 12

Prerequisite: Three years of high school Social Studies with a minimum grade of 90 in each course, Teacher Recommendations and AP Selection Committee Approval



This course gives 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 for seniors. A summer reading assignment is required of all students.

0284 | Government and the Criminal Justice System

One Semester, 0.5 Credits, Grade 12

Prerequisite: United States History & Government



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 police officers, and others, actively involved in the criminal justice system, and a trip to the Suffolk County jail, helps to enhance the learning experience as students discuss the problems facing our society related to criminal activity. All students enrolled in the course will participate in a mock trial designed to teach students about the trial process. **This course satisfies the New York State requirement for seniors.**

0283 | Government and the Criminal Justice System - SUNY

One Semester, 0.5 Credits, Grade 12

Prerequisite: United States History & Government



This course is designed to give students an overview of the criminal justice system in New York State. The first part of the course will examine the major components of the system: hierarchy of the courts, role of lawyers, and the function of a jury. Students will gain knowledge of the N.Y.S. penal code and the steps in the criminal justice process, from arrest to trial. Students will participate in a mock trial designed to teach students about the trial process and take a field trip to the Suffolk County

Correctional facility. The class will also incorporate current events and social justice issues related to the criminal justice system into the class curriculum throughout the duration of the course. Three college credits are earned from SUNY Farmingdale if students apply and are accepted to this program. Instruction is at a college level. **See Special Programs, University in the High School, for additional information and tuition costs. This course satisfies the New York State requirement for seniors.**

0212 | Economics

One Semester, 0.5 Credits, Grade 12

Prerequisite: United States History & Government



This course helps students to understand how today, more than ever, economics plays 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.**

0249 | Economics - SUNY

One Semester, 0.5 Credits, Grade 12

Prerequisite: United States History & Government



This course is the same as 0212 but 3 college credits are earned from SUNY Farmingdale if students apply and are accepted to this program. Instruction is at a college level. **See Special Programs, University in the High School Program, for additional information and tuition costs. This course satisfies the New York State requirement for seniors.**

0210 | Government & Genocide

One Semester, 0.5 Credits, Grades 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 satisfies New York State Participation in Government requirement for seniors.**

0218 | Psychology

One Semester, 0.5 Credits, Grades 11 & 12

Careers Pathway



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.

0216 | Advanced Placement Psychology

Full Year, 1 Credit, Grades 11 & 12

Prerequisite: Psychology

Careers Pathway



This college-level course introduces students to a full range of physiological insights and topics such as personality theory and assessment, intelligence, learning and memory, motivation & emotion, sensation & perception, developmental psychology, psychological disorders and psychotherapy. Some of the individuals studied include Sigmund Freud, Carl Jung, B. F. Skinner, Jean Piaget and Erik Erikson. Students have the opportunity to perform research and conduct experiments.

0220 | History of Now: United States 1945 - Present

One Semester, 0.5 Credits, Grades 11 & 12



This course will consider major developments exclusively in U.S. history of the last 70 years, including the Cold War, Suburbanization, Korean and Vietnam Wars, 60's counter culture, the Civil Rights movement, Watergate, Iranian Hostage Crisis, 9/11, the 2020 Presidential election, and other

major events from the 1950's 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 documents and photographs, among other sources. Students will work in small groups to investigate, develop presentations, and instruct the class on historical events of their choice. The main emphasis of this course is the intersection of politics, economics, culture and society in post WWII America and students' development of real-world skills for college and careers.

0277 | Sociology and Global Ethics

One Semester, 0.5 Credits, Grades 11 & 12

Careers Pathway



This course helps students develop an understanding of group life and the influences of heredity and environment. It emphasizes the forces of social cooperation vs. social conflict. Areas of study include: culture, crowd behavior, mass media, propaganda, marriage, the family, class structure, education and religion. The second half of this course is designed to examine current ethical questions regarding the world that we live in. Issues will be explored through scientific/legal/sociological perspectives. Some of these issues may include steroid use, medical policies, genetic testing, euthanasia, and others. This course is designed to heighten students' awareness and illustrate the frequent conflicts that confront government as well as the individual when trying to balance scientific data and civil liberties.

0223 | Mock Trial and Debate

One Semester, 0.5 Credits, Grades 11 & 12

Careers Pathway



In this course, high school students gain first-hand knowledge of public speaking, debate and courtroom procedures. Objectives of this course are to: Teach students ethics, civility, professionalism, and speaking skills; further students' understanding and introspection of contemporary issues; improve proficiency in basic life skills, such as listening, reading and reasoning; promote better

communication and cooperation among peers and stimulate interest in law-related careers.



WORLD LANGUAGES

Grade 7

Foreign Language 7



Grade 8

**Level I
FLACS A Checkpoint Exam**



Grade 9

Level II



Grade 10

**Level III OR
SUNY Level III
FLACS B Checkpoint Exam**



Grade 11

SUNY Level IV



Grade 12

SUNY Level V

Electives

- Advanced Placement French
- Advanced Placement Italian
- Advanced Placement Spanish
- Passport to Global Citizenship through Language
- Language in Business and Careers

Please Note: All SUNY Stony Brook courses include a registration fee and are paid directly to the university shortly after registration. Please keep in mind that tuition is subject to change each school year.

Course Descriptions

0501 | Spanish I

Full Year, 1 Credit, Grades 9-12



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.

0512 | French II

0519 | Italian II

0504 | Spanish II

Full Year, 1 Credit, Grades 9-12

Prerequisite: A passing grade on the FLACS Checkpoint A (administered in Middle School) or successful completion of Level I in High School



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.

0506 | Spanish III

Full Year, 1 Credit, Grades 10-12

Prerequisite: Level II



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.

0535 | SUNY Stony Brook French III

Full Year, 4 SUNY Stony Brook Credits / 1

Comsewogue Credit, Grades 10-12

Prerequisite: Level II



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.

0541 | SUNY Stony Brook Italian III

Full Year, 4 SUNY Stony Brook Credits / 1

Comsewogue Credit, Grades 10-12

Prerequisite: Level II



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.

0531 | SUNY Stony Brook Spanish III

Full Year, 4 SUNY Stony Brook Credits / 1

Comsewogue Credit, Grades 10-12

Prerequisite: Level II



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.

0536 | SUNY Stony Brook French IV

0542 | SUNY Stony Brook Italian IV

0532 | SUNY Stony Brook Spanish IV

French & Spanish: Full Year, 1 Credit, Grades 10 (Spanish only), 11 & 12

Italian: Full Year, 4 SUNY Stony Brook Credits / 1 Comsewogue Credit, Grades 11 & 12

Prerequisite: Level III



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.

0537 | SUNY Stony Brook French V

0543 | SUNY Stony Brook Italian V

0533 | SUNY Stony Brook Spanish V

French & Spanish: Full Year, 1 Credit, Grades 11 (Spanish only) & 12

Italian: Full Year, 3 SUNY Stony Brook Credits / 1 Comsewogue Credit, Grades 11 & 12

Prerequisite: Level IV



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 are 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.

0515 | Advanced Placement French Language

0525 | Advanced Placement Italian Language

0508 | Advanced Placement Spanish Language

Full Year, 1 Credit, Grades 11 (Spanish only) & 12

Prerequisite: Level IV, Teacher Recommendations and AP Selection Committee Approval



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.

0534 | Passport to Global Citizenship Through Language

One Semester, 0.5 credits, Grades 11 & 12

Prerequisite: Level III of Spanish, French or Italian

Careers Pathway



What can a language tell us about the people who speak it? Have you ever wondered where language originated or why certain languages have gained more popularity although not being the most widely spoken? How can we foster a greater interconnection between people through language? What are the benefits of being multilingual across all career fields? What are the benefits of being multilingual for our health? Will technology replace the need to speak different languages? What role does technology have in fostering language learning? The aim of this course will be to delve into these questions and more through a study that will discuss such topics as history, technology, music, current events, and more to lead us down a path that prepares us to be informed global citizens.

0544 | Language in Business and Careers

One Semester, 0.5 credits, Grades 11 & 12

Prerequisite: Level III of Spanish, French or Italian

Careers Pathway



Students will benefit from the awareness of the value of breaking through language barriers in business and careers. Developing business plans and strategies for optimizing success will be a central focus. A variety of career paths will be incorporated to stress the value and importance of standing apart from other applicants when submitting a resume; whether that be for college, business, or any chosen career. Special emphasis will be placed on expanding the mindset of students that want to gain a competitive edge in life. This emphasis will be structured around the tools and skills necessary in becoming a lifelong learner of the respective language. Emphasis will also be place on understanding how to navigate the differences within their own culture and the culture studied.