

NORTHPORT HIGH SCHOOL



2025-2026 COURSE CATALOG



154 Laurel Hill Road, Northport, NY 11768

(631) 262-6654

<http://web.northport.k12.ny.us>

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Leslie Ciliotta., Assistant Principal
Angelo Cocchiola, Assistant Principal
Terrence J. Hinson, Assistant Principal
Denise Keenan, Assistant Principal

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Robert Dennis, *Principal*
Leslie Ciliotta, *Assistant Principal*
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Denise Keenan, *Assistant Principal*

Dear Students:

Northport High School offers a rich variety of courses designed to help you fulfill your diploma requirements and to explore interests which may eventually become your career direction. In addition to satisfying New York State high school graduation requirements and serving as preparatory courses for college and career, our curriculum aims to integrate future ready skills for all of our graduates. Our Northport High School Profile of a Graduate inspires our educational community to develop within our students the skills to be strong collaborators, effective communicators, critical thinkers, global citizens, and innovative problem solvers



The course selection process has been established so that you can get a glimpse of the offerings available and work with your teachers, counselors, and parents in order to make the best choices for your high school career.

For your reference, information related to the New York State graduation requirements can be found [here](#). As you make your decision for courses for the 2025-2026 school year, bear in mind not only the graduation requirements, but also the opportunities that are afforded to you within the pages of this Course Catalog. Please be sure to challenge yourself with academic and elective opportunities that will expand your thinking, open your mind, and introduce you to a new skill or path of interest. At Northport High School, you have an important opportunity to take the most rigorous course of study that suits your personal profile so that you can prepare for college and beyond.

Designing a personalized schedule for you means that attention to several key details is critical. Among those details is the minimum requirement that all students be scheduled for 6.5 credits, inclusive of physical education. Courses listed in this catalog are offered on a tentative basis. Some may not run in the 2025-2026 school year due to lack of enrollment, scheduling conflicts, or for other administrative reasons.

We are very fortunate at Northport High School to have a talented, dedicated staff whose professional capabilities enable every student to meet the challenges of each course they choose. Please read the descriptions carefully and take advantage of the opportunities before you. I ask that you make wise decisions, which will hopefully result in a challenging, well rounded, successful high school experience.

Respectfully,

Robert Dennis
Principal

Counseling Center

Shannon Dantuono
Director of Student Support Services
631-262-8546

Counseling Department: 631-262-6730

The Counseling Center staff is committed to providing comprehensive academic, career and college guidance to help students derive the maximum benefits from their high school experience. Our open door policy encourages students to explore their interests, values and abilities with their counselor. Personal counseling services provide students with constructive decision-making skills to deal with social/emotional concerns that may be interfering with academic progress.

These are some of the services our counselors provide for our students and parents:

1. We help our students achieve academic success.
2. We help our students with post high school planning.
3. We lend support to our students when faced with various emotional, social and personal challenges.
4. We interact with parents, administrators and teachers on a daily basis regarding students.
5. We serve as resource people for all members of our high school community.

Northport High School Course Selection

Course selection for a student's program at Northport High School requires input from teachers, counselors, parents and academic chair people. Teachers of record make course recommendations for their students based on discussions, ability, and past performance. These recommendations drive student schedule choices for the next school year.

Course selection for entering ninth graders takes place at the middle school. Parents are invited to evening parent meetings at the middle schools, an Incoming Ninth Grade Parent Orientation Night at the high school and four-year planning meetings with the middle school counselors. At these meetings, counselors will explain high school graduation requirements, ninth grade course selection and assist the student and parents with developing a four-year plan for high school.

In January, students meet with their counselor for individual planning sessions to select courses for next year. Parents are requested to utilize the Parent Portal (<http://web.northport.k12.ny.us/index.cfm>) to view the course verification sheet.

All Northport High School students and their parents should review the graduation requirements included in this catalog. Northport High School students must carry a minimum of six (6) credit-bearing courses plus physical education.

AP Scholars and Awards

Recognizing Achievement

Each September, the College Board recognizes the many high school students who have distinguished themselves academically by announcing AP award recipients. There are several types of awards granted for various levels of achievement. Although these are not monetary awards, the students receive a certificate and their achievement is acknowledged on any subsequent AP Grade Reports sent to colleges. Award recipients not only gain recognition from colleges but also win the admiration of their peers, families and communities.

AP Scholar

The award of AP Scholar is granted to students who receive grades of 3 or higher on three or more AP Exams on full-year courses (or the equivalent).

AP Scholar with Honor

AP Scholar with Honor is granted to students who receive an average grade of at least 3.25 on AP Exams taken, and grades of 3 or higher on four or more of these exams on full-year courses (or the equivalent).

AP Scholar with Distinction

AP Scholars with Distinction is granted to students who receive an average grade of at least 3.5 on all AP Exams taken, and grades of 3 or higher on five or more of these exams on full-year courses (or the equivalent).

National AP Scholar

The award of National AP Scholar is granted to students in the United States who receive an average grade of at least 4 on all AP Exams taken, and grades of 4 or higher on eight or more of these exams on full-year courses (or the equivalent).

A Guide for College-Bound Student-Athletes and Their Parents

The National Collegiate Athletic Association (NCAA) regulate many college athletic programs and have established rules on eligibility, recruiting and financial aid. Potential Division I and II student athletes should confer with their coach and counselor. It is the student-athlete's responsibility to know and complete the necessary requirements to qualify for college participation.

The most current eligibility requirements and commonly asked questions can be obtained online at: www.ncaa.org
Additional Information is also available by calling the NCAA at the following numbers:

NCAA Telephone Number: 1-317-917-6222

NCAA Eligibility Center House Telephone Number: 1-877-262-1492

Our high school's list of approved core courses is available online:

1. Go to <http://ncaaclearinghouse.org>
2. Click on "Resources" then "US students"
3. Click on "List of NCAA courses"
4. Input our six-digit Code, 334205 and click on "Submit"
5. Review the list

Northport High School has teamed up with CoreCourseGPA.com to provide free, custom on-line assistance for student athletes interested in tracking their progress towards meeting NCAA initial eligibility requirements. The software will calculate core course GPA, provide corresponding minimum SAT/ACT scores and a detailed report of core course credits earned and needed.

Go to CoreCourseGPA.com and click on "Free New Member Account" and enter the following information:

School ID: 334205

School Code: 715630050

Guidelines for Student Schedule Changes

Request for schedule changes are only allowable for the following reasons:

1. Add courses required for graduation
2. Academic level change to accommodate student's ability
3. Failures (end of year or summer school)
4. Job - letters from parent and employer (carefully screened)
5. To add a course during a free period

All students, grades 9-12, must carry a minimum of six (6) credit bearing courses plus physical education.

To request a schedule change (for the purpose of adding or removing a course)

- Students must see their school counselor followed by their grade level assistant principal and use the Schedule Adjustment Form to initiate the process. This form requires the signatures of all of the following: parent, teacher, counselor, academic chairperson, and the grade level administrator.
- Course changes involving a level change may be requested after the tenth day of school in September. During this wait period, students are expected to attend their regularly scheduled classes.
- No changes to schedules may take place after the first quarter report card grades have been issued.
- When a request to change courses has been denied, a student or his/her parents(s) may request a hearing. The hearing will be held within 10 school days with the principal or his/her designee.
- For approved schedule changes that result in a course being dropped, there will be no grade penalty and the course will not appear on the student's transcript.
- If the student is denied credit from the class for not adhering to the attendance policy, a DC (Denial of Credit) will be recorded on the student's transcript.
- Changes that take place after the last day of the schedule change period that result in a class being dropped will be recorded as a W/F (Withdrawn/Failure) on the student's transcript.
- At all times throughout the academic year, students are required to maintain 6.5 credits inclusive of physical education.

A student having academic difficulty in a course may:

- Drop from one level of a subject to a more appropriate level. Changes must have the approval of all of the following: parent, teacher, counselor, academic chairperson, and the grade level administrator.
- Students must see their school counselor followed by their grade level assistant principal and use the Schedule Adjustment Form to initiate the process.
- There will be no level changes made, effective one week after the publishing of the first quarter report cards for a full year course or before the end of the fifth week of school for a semester course.
- Students moving from one level to another level of the same subject will only receive grades in the subject for which the credit is earned. The first subject will not appear on the student's final transcript.

Pass/Fail Option

A student enrolled in grades 9-12 may request to be graded honors, pass, or fail in one full unit of credit each calendar year. This option may only be requested in elective courses. Elective courses are defined as those taken beyond the specific requirements for graduation. A grade that has been earned that is a 65 or better is considered a passing grade.

The following criteria must be met in order to take a class pass/fail:

- The student must be enrolled in more than 6 classes each quarter exclusive of physical education and lunch.
- Only one course may be graded honors/pass/fail in any one given semester.
- Pass/Fail request forms must be signed by the teacher of the course, the counselor and the parent. Request forms are available in the Counseling Center.

Requests must be submitted to the counselor according to the following deadlines:

- For full year or first semester courses, deadline for request shall be the last day of the fifth week of school.
- For the second semester courses, deadline for request shall be the last day of the twenty-fifth week of school.

Should a student withdraw from classes so that fewer than six classes exclusive of physical education and lunch are scheduled, that student may no longer employ the pass/fail option. All requirements of the course must be met including Final and/or Regents examinations.

Occupational Education Course Offerings

Western Suffolk B.O.C.E.S. Wilson Tech

Students seeking vocational training during their high school education have an opportunity to participate in the Western Suffolk BOCES Wilson Technological Center for vocational training.

Students in BOCES Occupational Educational spend one-half day at Northport High School and one-half day at a Wilson Tech campus. Successful completion of course work at Wilson Tech grants a student 4.5 credits a year. Grades from Wilson Tech will be included in a student's GPA.

Courses offered at Western Suffolk BOCES Wilson Tech include:

Service Careers Business & Hospitality Management Certified Personal Trainer Computer Business Skill Cosmetology/Cosmetology Skills Culinary Arts Criminal Justice Culinary Skills Early Childhood Education Esthetics Fashion Merchandising/Design Small Animal Care Skills Veterinary Medical Assisting	Construction Careers Architectural Design & Interior Design CAD Carpentry Construction Electricity Construction Skills Heating/Air Conditioning (HVAC) Welding
Technical Careers Computer Game Design/ Computer Technology for Business Electronic/Robotic Skills Electronics/Robotics/Computer Repair	Graphics & Media Careers Advertising/Graphic Design Graphic Art Skills Audio Production Digital Film and Video Production Professional Photography
Transportation Careers Aircraft/Drone Technology Autobody Repair Automotive Technology Auto Technology Skills Aviation Science/Flight	Health Careers Health Care/Medical Assisting Skills Medical Assisting Medical Laboratory Nurse Assisting Physical Therapy Aide

Curriculum Highlights - Advanced Placement, International Baccalaureate, & College Dual Enrollment

Northport High School offers a robust offering of rigorous college level courses. College Level (AP and IB) and dual enrollment courses carry a 10% weight in determining GPA. Honors Level courses carry a 5% weight in determining GPA. Below is a list of courses that are offered at the college and honor levels. The next page of this document outlines the dual enrollment courses within the building. **Students enrolled in an AP or IB course will take the corresponding AP or IB course in the spring during the year of study. Students must take said exam in order for the course to be listed as AP or IB on their transcript, and in order to earn the 10% weighting.**

Advanced Placement

AP English Language & Composition 11
AP English Literature & Composition 12
AP American History
AP European History
AP Comparative Government
AP U.S. Politics
AP World History
AP Environmental Science
AP Biology
AP Chemistry
AP Physics 1 and 2

AP Calculus AB
AP Calculus BC
AP Computer Science A
AP Computer Science Principles
AP Statistics
AP/IB French 5
AP/IB Italian 5
AP/IB Spanish 5
AP Art Drawing
AP Design 2D/3D
AP Music

International Baccalaureate

IB English Literature HL 11
IB English Literature HL 12
IB English Language & Literature HL 11
IB English Language & Literature HL 12
IB Philosophy SL
IB French 4 11
IB French 5 SL/HL 12
IB Italian 4 11
IB Italian 5 SL/HL 12
IB Spanish 4 11

IB Spanish 5 SLHL 12
IB Sports Exercise - Health Science
IB Economics SL
IB History of the Americas HL 11
IB History of the Americas HL 11
IB Psychology
IB Social and Cultural Anthropology SL
IB Biology SL
IB Chemistry SL
IB Physics HL 11

IB Physics HL 12
IB Math: Analysis & Approaches SL
IB Math: Applications & Interpretation SL
IB Visual Arts SL/HL
IB Visual Arts SL/HL
IB Music SL/HL
IB Business Management HL 11
IB Business Management HL 12
IB Theory of Knowledge

Honors

Algebra II BC
Pre-Calculus BC
Earth & Space Sciences Scientific Investigation
Biology Scientific Investigation
Chemistry Scientific Investigation
Physics Scientific Investigation

Curriculum Highlights - Advanced Placement, International Baccalaureate, & College Dual Enrollment

The courses below are tuition-based through the indicated colleges and universities. Students can earn the indicated number of credits based on earning the requisite grades according to the college or university's academic policy.

Department	Course	College/University	Credits
Art	Digital Design II	SUNY Farmingdale	3
Art	Advanced Visual Studies in Animation	SUNY Farmingdale	3
Art	Photography II	SUNY Farmingdale	3
Art	Photography III	Five Towns College	3
Business	AOF International Business	St. John's University College Advantage Program	3
Business	College Accounting	St. John's University College Advantage Program	3 fall, 3 spring
Business	AOF College Financial Planning	St. John's University College Advantage Program	3
Business	College Management and Leadership	St. John's University College Advantage Program	3
Business	College Marketing	St. John's University College Advantage Program	3
Business	IB Business Management SL 11/12 OR HL 11	St. John's University College Advantage Program	3 fall, 3 spring
Business	Sports Management & Business Law	St. John's University College Advantage Program	3
Business	Virtual Enterprise	St. John's University College Advantage Program	3 fall, 3 spring
Business	Digital Generation	Stony Brook University ACE Program	3
Business	AOF Introduction to Business/Entrepreneurship	Stony Brook University ACE Program	3 spring
English	Environment Team	Stony Brook University ACE Program	3
English	Film Criticism I	Stony Brook University ACE Program	3
English	Project Advance	Syracuse University	3 fall, 3 spring
English	AP English Literature and Composition	Stony Brook University ACE Program	3 spring

Mathematics	College Statistics & Pre-Calculus	St. John's University College Advantage Program	3 fall, 3 spring
Mathematics	College Trigonometry & Calculus	St. John's University College Advantage Program	3 fall, 4 spring
Mathematics	IB Math: Analysis & Approaches	St. John's University College Advantage Program	3 fall 3 spring
Mathematics	IB Math: Applications & Interpretation SL	St. John's University College Advantage Program	3 fall 3 spring
Mathematics	Pre-Calculus AB	St. John's University College Advantage Program	3 fall, 3 spring
Music	Musical Theater IV	Five Towns College	3
Music	Symphonic Winds-Honors	Five Towns College	3
Music	Tour Choir-Honors	Five Towns College	3
Music	Symphony Orchestra-Honors	Five Towns College	3
Science	Forensic Science	Long Island University High School Scholars Program	3
Science	Medical Anatomy & Physiology	Long Island University High School Scholars Program	4 fall, 4 spring
Science	Environment Team	SUNY College of Environmental Science and Forestry	3
Social Studies	News Literacy	Stony Brook University College of Professional Development	3
Social Studies	American Law	Suffolk County Community College Excelsior Program	3
Technology and Engineering	PLTW Introduction to Engineering Design	Rochester Institute of Technology	3
Technology and Engineering	PLTW Civil Engineering and Architecture	Rochester Institute of Technology	3
Technology and Engineering	PLTW Computer Integrated Manufacturing	Rochester Institute of Technology	3
Technology and Engineering	PLTW Digital Electronics	Rochester Institute of Technology	3
Technology and Engineering	PLTW Principles of Engineering	Rochester Institute of Technology	3
Technology and Engineering	Web Architecture and Development	Syracuse University	3
Technology and Engineering	PLTW Cybersecurity	SUNY Farmingdale	3
World Language	ALC 4 French ALC 4 Italian ALC 4 Spanish	Stony Brook University	3

Academy of Information Technology (AoIT)



Kristin McCormack
Program Coordinator
631-486-7020



[AoIT Video Presentation \(6 min\)](#)

[Modern Information Technology, Electronics & Coding Video \(2 min\)](#)

The Academy of Information Technology (AoIT) is an interdisciplinary program which prepares students for a career in Information Technology (IT). AoIT is designed for students interested in the areas of computer science, video editing, web design, web architecture and development, programming, computer networking, and computer cybersecurity and forensics.

The Academy of Information Technology is a national program established by the IT industry to develop future leaders with the skills necessary to succeed in this fast-paced growth area. The National Academy Foundation (NAF) partnership bridges the gap between the classroom and the workplace. Students will participate in job shadow days, attend field trips touring the industry, listen to experts in the field, and participate in a paid summer internship.

This Academy is a four-year program which students begin in their freshmen or sophomore* year. Academy students work together cooperatively and develop real world personal and technical skills that will make them future technology leaders. Students must complete a minimum of four credits and one summer internship while working in collaboration with our IT advisory board.

Criteria for Selection

- Interest in Information Technology
- Teacher/Guidance Recommendations
- Application/Essay
- Interview

Cyber Security and Web Architecture and Development are dual-enrollment courses.



Recommended Program Schedule

Freshman & Sophomore Years (First and Second Years)

Modern Information Technology, Electronics & Coding*
AP Computer Science Principles

Junior/Senior Years (Select two or more)

Web Page Design
AP Computer Science A
PLTW Introduction to Cybersecurity^{+x}
Video Digital Film I
Web Architecture & Development^x
Summer Internship*

*Required Summer Internship completed in between Junior and Senior years

Total of 4.5 credits

⁺SUNY Farmingdale

^xSyracuse Project Advance

*Modern Information Technology, Electronics & Coding, AP Computer Science Principles & the AoIT Summer Internship are required courses in the AoIT Program.

****Any student may challenge one or more AoIT courses with the exception of the AoIT Summer Internship which is for AoIT Program students only.**

AoIT MODERN INFORMATION TECHNOLOGY, ELECTRONICS & CODING

1 Unit 40 weeks (5817)

Modern Information Technology, Electronics & Coding (MITEC) is a dynamic and engaging course that offers students an in depth introduction to the world of information technology and computer science. This course is designed to equip students with the essential knowledge and skills to navigate our ever-evolving digital age and interconnected world. Key course highlights include coding fundamentals, transition to Python programming, computational thinking, and digital electronics.

Whether you aspire to become a software developer, engineer, or simply want to enhance your digital literacy and problem-solving abilities, MITEC is the gateway to a world of technological possibilities. MITEC students will access authentic industry standard tools and computer science software as they engage in real-world IT practices in a highly collaborative and project-based learning environment.

This course is a requirement of the AoIT Program, however, students do not need to be enrolled in the full AoIT program to enroll in and benefit from MITEC.

AoIT AP COMPUTER SCIENCE PRINCIPLES

1 Unit 40 weeks (3700)

NCAA Approved

AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. This course also lays a strong foundation for Advanced Placement Computer Science A. All students are required to take the AP Exam in May at a cost of approximately \$95.00 plus College Board Administrative Fee.

This course is a requirement of the AoIT Program, however, students do not need to be enrolled in the full AoIT program to take this course.

AoIT/PLTW INTRODUCTION TO CYBERSECURITY

1 Unit 40 weeks (5819)

In today's digital age, the importance of cybersecurity cannot be overstated. Offered in conjunction with Project Lead the Way (PLTW) Cybersecurity, this course is designed to equip students with the knowledge and skills necessary to identify cybersecurity threats, protect against them, detect intrusions, and respond effectively to cyberattacks.

Through problem-based learning, students will engage in practical, hands-on activities and role-playing scenarios that simulate real-world cyber threats and incidents. They will train as cybersecurity experts, gaining invaluable experience in assessing vulnerabilities, implementing security measures, and responding to security breaches. Cybersecurity encourages socially responsible choices and behavior in the digital realm, emphasizing the importance of ethical hacking and data handling.

This course is available for three college credits, to students in grades 10 - 12, through SUNY Farmingdale. Tuition is approximately \$140.

This course fulfills one credit for the AoIT Program, however, students do not need to be enrolled in the full AoIT program to take this course.

AoIT Internship

½ Unit (7911) Summer Junior-Senior Year

AoIT students bridge the gap between the classroom and the work force through a first-hand internship experience in the IT world. Students will prepare resumes and be interviewed for positions by local internship providers. These internships connect students to the real world and establish important relationships between students and professionals in the IT industry. Each student is required to maintain a portfolio throughout their 120-hour commitment and must complete a PowerPoint presentation highlighting their experiences. This presentation will be shared at the AoIT *Employer Recognition Trade Show* held in the fall of their senior year.

This course is only open to students enrolled in the AoIT Program.

VIDEO / DIGITAL FILM I

1 Unit 40 weeks (6306)

This introductory course is designed for students to acquire a basic understanding of the video medium. The course will focus on three major components. The first component will concentrate on the three phases of video pre-production, production and post-production. Topics that will be covered include film/television genres, how to develop an idea on paper and how to translate that idea to video. The second component involves the technical aspects of video production. Students will examine basic shot set-up techniques as well as be provided with the necessary knowledge to operate equipment so that they may produce (pre-production), create (production) and edit (post-production) their own videos. Students will be expected to work inside and outside of the classroom. Some components of this course will require individual effort while others require work as part of a production team. The third component introduces the history of film and television. Students examine and critique the technical advancements in the film and video mediums over time.

This course fulfills one junior or senior year credit for the AOIT program.

WEB PAGE DESIGN

1 Unit 40 weeks (5825)

This full year course is open to all students and presents basic and advanced topics in Web page design. Students will learn the basics of good web design by working with industry standard Web design software such as Macromedia Flash and Dreamweaver. A large portion of the school year will be dedicated to creating fully interactive websites using Flash. Students will work alone and in teams to design and maintain web sites.

Prerequisite for non-AOIT students: Fulfillment of the art/music graduation requirement in Studio in Art, Studio in Crafts, or Studio in Media is recommended, but not required.

This course fulfills one junior or senior year credit for the AOIT program.

AP COMPUTER SCIENCE A

1 Unit 40 weeks (3710)

NCAA Approved

The Advanced Placement (AP) course in Computer Science will cover topics which would normally be found in a college-level program for computer science majors or for students who will major in other disciplines that require involvement with computers. The current programming language is JAVA, an object-oriented programming language. The skills learned in AP Computer Science Principles are reviewed and refined in this course. Topics taught include programming methodology, features of programming languages, data types and structures, algorithms, applications, iteration, recursion and the social implications of computer science. A practical context for the course is given through the use of College Board prescribed lab assignments. All students are required to take the AP Exam in May at a cost of approximately \$95 plus College Board Administrative Fees.

This course satisfies one credit for the AOIT program.

Prerequisite: AOIT AP Computer Science Principles.

PROJECT ADVANCE WEB ARCHITECTURE & DEVELOPMENT: A Coding Experience

1 Unit 40 weeks (7406) Grades 11-12

Offered in conjunction with Syracuse University's Project Advance (SUPA IST 263), this course combines entrepreneurial methods with real world projects covering the construction and publication of multimedia for the web. The course will incorporate a user-based approach to planning, design, implementation, and management in distributed network environments. Students will become proficient in HTML, CSS, PHP, and Javascript as front-end web developers to code a website and web app designs. Creating a basic webpage using HTML, styling all pages for consistency using CSS, and building interactivity into webpages using PHP and Javascript are the focal points for this course. Webpage creation practices, proper documentation, and user feasibility will be addressed. Following the course, students should have the ability and confidence to design and program a website for a small-to-medium sized business or organization.

Prerequisite: AP Computer Science Principles, Web Page Design, or instructor approval.

This course satisfies one credit for the AOIT program. Three college credits are available for a nominal tuition to Syracuse University (approximately \$115.00 per credit).

Art Department

Izzet Mergen, Ed.D.
Director of Fine and Performing Arts
Izzet.Mergen@northport.k12.ny.us
631-262-6694



Welcome to the Northport High School Art Department! Our program offers a vibrant and comprehensive selection of courses designed to foster creativity, develop artistic skills, and prepare students for future opportunities in the arts. As a student, you have several exciting pathways to explore within the department:

Graduation Information

Students can fulfill their graduation requirement in the arts by taking one unit of art. A full-year, one unit **Foundation Course** is recommended to fulfill this requirement, and can also serve as a prerequisite for Intermediate and Advanced Arts Courses. The one-unit graduation requirement also can be fulfilled with (2) ½ units. An **Intermediate Course** may be taken without a Foundation Course if the student has permission from the Director of Fine and Performing Arts. **Advanced Arts Courses** available include Advanced Placement (AP) courses and International Baccalaureate Program (IB) courses which offer a distinguished scholarly rigor for students.

Students may fulfill their requirement for an Advanced Regents Diploma by taking a 5-credit Art sequence.

Art Sequence

Additionally, in place of the second social studies regents OR language requirement, an approved “+1 Pathway” of five units of art called an **Individualized Arts Assessment Program** (IAAP) can be taken as a fifth assessment required for Regents and Advanced Regents diplomas. Students taking an IAAP-A are encouraged to discuss these five unit art sequences with any of our art teachers, their school counselor, or the Director of Fine and Performing Arts for assistance with choosing a proper IAAP program as early as possible. Please see *Appendix A*, towards the end of this section, Sample IAAP Pathway.

Career and Technical Education (CTE) Certification

The Northport High School Arts Department offers four CTE pathways:

1. Animation, Interactive Technology, Video Graphics and Special Effects
2. Cinematography and Film/Video Production
3. Digital Arts
4. Photography

Students who complete all the requirements for a CTE pathway will receive a CTE credential on their high school diploma. Students with a CTE credential are able to show colleges and employers they have taken advanced art courses and have participated in work-based experiences in high school.

Academy of Media Arts

The Academy of Media Arts is a comprehensive program designed to prepare students for success in the ever-evolving media industry. By offering a wide range of specialized courses, our program empowers students to develop technical expertise and creative skills while tailoring their educational experience to align with their individual goals and career aspirations. Students can choose from disciplines such as Digital Art & Design, Photography, Media Arts Production, Animation, and Video/Digital Film.

Students interested in exploring various media art disciplines can do so by taking just one course per year. For those pursuing a deeper focus and a CTE certification in their chosen field, we provide a defined sequence of classes within a single medium, fostering expertise and professional readiness. In their senior year, all Academy of Media Arts students will engage in two essential half-year courses: Industry Preparation and Portfolio Preparation. These capstone courses are designed to provide students with the practical skills and professional insights needed to excel in their future careers and smoothly transition to higher education. Please see *Appendix B*, at the end of this section, Academy of Media Arts.

Art Honor Society

The Northport HS Chapter of the National Art Honor Society is a distinguished group of outstanding art students who gain peer recognition, engage in leadership growth opportunities, gain valuable college and career preparation, and obtain an unmatched sense of camaraderie with their peers.

Design, Fine, and Media Arts at Northport HS

The purpose of the visual arts program is to cultivate visual arts literacy. The visual arts develop essential qualities of teamwork, collaboration, problem-solving, and flexibility, as well as an appreciation and respect for others' ideas and personal expressions. There are many areas in business and industry where there is a need for artists, furthermore, overall employment in design arts, fine arts, and Media arts occupations are projected to grow for the next 10 years (US Department of Labor, 2024). Please see *Table A*, below, for examples of *Careers in the Arts*.

Table A: Careers in the Arts

Design Arts Advertising Designer, Ceramic Artist, Costume Designer, Fashion Artist/Designer, Furniture Designer, Gemologist, Textile Designer, Ceramicist, Interior Designer, Industrial Designer, Jewelry Designer, Upholstery and Fabric Designer, Exhibit Designer, Toy Designer, Fashion Merchandiser, Landscape Architect, Stained Glass Artist, Film/Media Production Set Designer, Theater Set Designer, Kitchenware Designer, Silkscreen Artist, Display Artist, Label Designer, Art Educator, Art Administrator	Fine Arts Art Exhibition Coordinator, Art Therapist, Art Historian, Architect, Billboard Artist, Book Illustrator, Caricaturist/Cartoonist, Catalog Illustrator, Courtroom Sketcher, Curator, Editorial Illustrator, Storyboard Artists, Medical Illustrator, Muralist, Newspaper Illustrator, Urban Planner/Designer, Tattoo Artist, Special-effects Makeup Artist, Book Jacket Designer, Sculpturist, Art Educator, Art Administrator	Media Arts Animator, Aerial Photographer, Art Director, CAD Designer, Photographer, Filmmaker, Web Designer, UX/UI Designer, Video Editor, Photojournalist, Magazine Cover/Layout Artist, Municipal Graphic Designer, Video Game Designer, Graphic Designer, Cinematographer, Still Photographer, Trademark Designer, Architectural Renderer, Graphic Arts Technician, Motion Picture Special F/X, Animator, Graphic Designer, Photojournalist, 3D Modeler, Art Educator, Art Administrator
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*According to the NYS Department of Labor, arts careers are anticipated to grow an average of 23.66% by 2030. Engagement, exploration, and effective communication are the cornerstones of the IAAP-A, setting a strong foundation for every aspiring artist's academic and creative journey.

t Northport High School, much like the three general areas of careers in the arts, art instruction is divided into these same general areas, and is offered at *Foundation*, *Intermediate* and *Advanced* levels (see *Table B* below).

Table B: Freshman, Foundation, Intermediate, and Advanced Arts Courses

<u>Freshman Introductory Courses</u>	<u>Foundation Courses</u>	<u>Intermediate Courses</u>	<u>Advanced Arts Courses</u>
Design Arts: Studio in Crafts Fine Arts: Studio in Art Media Arts: Studio in Media	Design Arts: Ceramics I* Fashion Design & Illustration I Jewelry I** & II** (combined) Fine Arts: Drawing & Painting I Sculpture I* Sequential Art I Media Arts: Animation Digital Art & Design I Media Arts Production I Photography I* Video/Digital Film I Web Page Design	Design Arts: Ceramics II Fashion Design & Illustration II Fine Arts: Drawing & Painting II/Pre-AP/IB Art Sculpture II Sequential Art II Media Arts: Digital Art & Design II Media Arts Production II Photography II Video/Digital Film II	Design Arts: AP 2D/3D Design Ceramics III Fashion Design & Illustration III Advanced Visual Studies in <i>Ceramics, Fashion Design & Illustration or Jewelry</i> Fine Arts: AP 2D/3D Design AP Studio Art Drawing Portfolio AP Studio Art 12th Grade IB Visual Arts Sculpture III Advanced Visual Studies in <i>Sculpture or Sequential Art</i> Media Arts: AP Studio Art 12th Grade AP 2D/3D Design Media Arts Production III Photography III Video/Digital Film III Advanced Visual Studies in: <i>Animation, Digital Art & Design, Web Design, Media Arts Production, Photography, and Video/Digital Film</i>

Courses are 1 Unit unless otherwise noted below:

*available as ½ Unit or 1 Unit

**available as ½ Unit only

Art Courses

Freshman Introductory Courses

Design Arts Freshman Courses:

STUDIO IN CRAFTS

1 Unit 40 weeks (6107)

This foundation course is recommended for students with an interest in ceramics, fashion, jewelry, and various applied arts. They will design and create art objects using a variety of materials. As students continue to develop their own skills, they will explore how people through the ages expressed themselves through traditional and contemporary crafts, making both functional and decorative pieces.

Fine Arts Freshman Courses:

STUDIO IN ART

1 Unit 40 weeks (6102)

This foundation course is recommended for students with an interest in the Fine Arts. Students discover new ways to express themselves in different media. They experiment with drawing in pencil, charcoal and pastel; paint in acrylics and watercolor; sculpt with clay, plaster or other materials; and print multiples using linoleum, marbling, or etching techniques. They will also be introduced to the use of computers in art. Students explore how people through the ages have expressed themselves through the arts as they continue to develop particular skills and techniques to express their ideas and feelings.

Media Arts Freshman Courses:

STUDIO IN MEDIA

1 Unit 40 weeks (6121)

This media arts foundation course provides a diverse range of options. It is recommended for students with an interest in photography, film video, computer graphics, and creative sound. They will receive introductory experiences in each of these categories, followed by skill development through group and individual projects. As they progress, students will have the opportunity to create their own media art. One optional field trip may be arranged.

Foundation Courses

Design Arts Foundation Courses

CERAMICS I

½ Unit 20 weeks (Fall/Spring) (6320) or 1 Unit 40 weeks (6322)

Students will learn how to shape different clay bodies into pottery and other ceramic forms through the exciting process of throwing on the potter's wheel and building by pinch, coil, slab and modeling techniques; decorate and glaze ceramic art in contemporary and traditional methods; and participate in loading and firing the kiln.

Ceramics I is a required prerequisite for Ceramics II.

FASHION DESIGN & ILLUSTRATION I

1 Unit 40 weeks (6339)

Learn to draw the fashion figure. Explore a variety of illustration techniques and design clothing and accessories for the female figure. Expand your creative problem-solving skills. Study the clothing styles of famous designers. Explore the history of fashion from the Roman Toga to Futuristic garments and 3D printing. Elevate your creative perspective using AI for idea generation. By the end of this course you will develop your own personal style of fashion illustration. We will learn about careers in the fashion industry from alumni working in the field. Colleges visit with us throughout the year. Students may need to supply some materials. Field trips may be taken to a fabric store, fashion exhibit and design school.

Fashion Design & Illustration I is a required prerequisite for Fashion Design & Illustration II.

JEWELRY I

½ Unit 20 weeks (Fall/Spring) (6329)

Students will design and construct body ornaments such as rings, bracelets, neckpieces, etc. They will learn skills in bending wire, sawing and shaping sheet metals, soldering, stone setting and polishing pieces; they will experiment with resin and learn various beading techniques and explore various cultural influences on today's jewelry design. Purchase of stone or sterling silver is optional.

Jewelry I is a required prerequisite for Jewelry II.

JEWELRY II

½ Unit 20 weeks (Fall/Spring) (6328)

Students will further develop their ideas and skills in jewelry construction and design in this advanced jewelry course. Each student will pursue an individualized program of study based on his/her own interests while exploring multi-cultural and historical perspectives of jewelry. Purchase of sterling silver or additional stones is optional.

Prerequisite: Jewelry I

Fine Arts Foundation Courses

DRAWING AND PAINTING I

1 Unit 40 weeks (6200)

In this course you will work with various drawing and painting media such as graphite, colored pencil, pen and ink, pastel, water color, and acrylic. All modes of expression from realism to abstraction will be explored as each student searches for a personal creative style. Works will range in form from small drawings to murals. Students may need to supply some of the materials.

SCULPTURE I

½ Unit 20 weeks (Fall/Spring) (6207) or 1 Unit 40 weeks (6209)

Explore the fundamentals of three-dimensional design and create sculptures that have meaning to you. Expand your knowledge as you learn to use materials that have been used since ancient times, as well as those invented for contemporary use. Plaster, clay, monster clay, wax, found objects and 3D printing are some of the mediums that we work with throughout this course. Learn new techniques using modern technology such as Snapchat and AI to elevate your creating perspective to recognize human form in your human head sculpture. Students will find personal success as they explore human form and understand the differences between additive and subtractive processes.

Sculpture I is a required prerequisite for Sculpture II.

SEQUENTIAL ART I

1 Unit 40 weeks - Grades 10, 11, 12 (6196)

Sequential Art I is designed to introduce students to the fundamentals of storytelling through visual narratives. The field of sequential art encompasses graphic novels, children's books, illustration, model sculpting, concept design for animation, and drawing storyboards for major animated films. Classes focus on the skills necessary for visual storytelling and are applicable to a wide range of industries and career paths, such as animator, concept artist, storyboard artist, illustrator, clean-up artist and character designer. A progressive curriculum incorporates traditional techniques with

industry-standard technology and conventional materials. A study of drawing will take place as students learn to illustrate anatomy, facial expressions, and environments. This course will focus on techniques in penciling and inking as the fundamentals for producing art. Students will learn to transfer drawings and work with lining pens and markers.

Media Arts Foundation Courses

ANIMATION

1 Unit 40 weeks (6130)

Dive into the thrilling world of digital animation with this course designed just for you. Discover how to craft animations that rival the likes of Pixar and bring your wildest ideas to vibrant life. We're going beyond the basics, introducing you to both 2D and 3D animation with tools like Adobe Animate and Blender. Ever wanted to step into your own creation? With VR headsets, you'll immerse yourself in incredible digital landscapes you design. You'll gain skills in character design, storyboarding, stop-motion, lighting, texturing, and special effects. Plus, you'll get hands-on with 3D modeling and motion graphics. By the end of this course, you'll have a portfolio of high-quality animations that could be the first step toward your future in animation. Let's start this creative journey together! No prior knowledge needed!

DIGITAL ART & DESIGN I

1 Unit 40 weeks (6330)

Digital art has transformed activities such as painting, drawing and sculpture, and is the fastest growing field in the art world. This course is designed to introduce students to using the computer for design in photo manipulation in Photoshop, illustration in Illustrator and designing in a 3D virtual environment using Maya with Virtual Reality (VR) headsets.. Students work with high-end graphic scanners, high resolution ink printers and 3-D printers. They also will be exposed to the basic concepts of graphic design, including advertising, logo and package design. Through a series of projects, students will learn how and when to use specific software to produce portfolio-quality designs.

Digital Design I is a required prerequisite for Digital Design II.

MEDIA ARTS PRODUCTION I

1 Unit 40 weeks (6307)

Students will learn about the many forms in which today's media is created and broadcast. After developing basic skills in groups and individualized projects, students will create their own media art suitable for broadcast over a variety of platforms (cable TV, internet media, podcasts, etc.). Although a major component of this class will be the creation and presentation of video announcements at the high school, it will reach further into the district and school community-at-large through weekly video announcements and monthly/quarterly online broadcast programs. Students will

also learn about programming and maintaining the new Northport High School internet radio station.

This course is recommended for students with an interest in broadcast media, film, video, photography, computer graphics, and/or creative sound. All experience and skill levels are welcome!

PHOTOGRAPHY I

½ Unit 20 weeks (Fall/Spring) (6301) or 1 Unit 40 weeks (6303)

In this course students will view the world through the camera lens. They will learn the art and technique of digital and 35mm film photography. Students will learn how the 35mm film camera works, how to develop their own film, and ultimately print images in the darkroom. Digital cameras and computer imaging will also be introduced. They will learn how to use Photoshop to enhance their photos. Once each student has been introduced to both digital and 35mm/black and white photography they will be encouraged to choose a concentration that they can explore for the remainder of the class. At the end of this course, each student will have explored various themes and significant compositional elements in photography.

This course is recommended for students with an interest in photography. All experience and skill levels are welcome! Photography I is a required prerequisite for Photography II.

VIDEO/DIGITAL FILM I

1 Unit 40 weeks (6306)

This introductory course is designed for students to acquire a basic understanding of the video/film medium. The course will focus on three major components. The first component will concentrate on the three phases of video/film production specifically: *pre-production*, *production* and *post-production*. Topics that will be covered include film/television genres, how to develop an idea on paper and how to translate that idea to video/film. The second component involves the technical aspects of video production. Students will examine basic shot set-up techniques as well as be provided with the necessary knowledge to operate equipment so that they may produce (pre-production), create (production) and edit (post-production) their own videos/films. Students will be expected to work inside and outside of the classroom. Some components of this course will require individual effort while others require work as part of a production team. The third component introduces the history of film and television. Students examine and critique the technical advancements in the film and video mediums over time.

This course is recommended for students with an interest in film or video. All experience and skill levels are welcome! Video/Digital Film I is a required prerequisite for Video/Digital Film II.

This course also fulfills one senior year credit for the AOIT program.

WEB PAGE DESIGN

1 Unit 40 weeks (5825)

This full year course is open to all students and presents the basic and advanced topics in web design and graphic design. Students learn to use a variety of industry-standard software to create fully-interactive websites, as well as tools and tips to kickstart an interest in web and/or graphic design.

This course also fulfills one junior year credit for the AOIT program.

Intermediate Courses

Design Arts Intermediate Courses

CERAMICS II

1 Unit 40 weeks (6325)

Students will advance and develop ideas and skills in pottery and ceramic design and construction; perfect skills on the potter's wheel, and apply intricate surface treatment to pieces. Each student will pursue an individualized program of study.

Prerequisite: Ceramics I

FASHION DESIGN & ILLUSTRATION II

1 Unit 40 weeks (6340)

Design your own clothing. Learn to construct your design from creation of a personal fabric pattern through all stages of production. Continue to build your illustration skills and add to your knowledge of the world of fashion through an individualized program based upon your own interests and needs. Students will learn to illustrate the male fashion figure and create menswear illustrations. Students may need to supply some of the materials. Two field trips may be taken to a fashion exhibit and design school. Portfolios for college applications will be stressed.

Prerequisites: Fashion Design & Illustration I

Fine Arts Intermediate Courses

DRAWING AND PAINTING II/Pre-AP & Pre-IB Art

1 Unit 40 weeks (6202)

This "Pre-AP & Pre-IB" class will not only expand your skills and refine your artistic abilities, it will also prepare you for future enrollment in our Advanced Placement and International Baccalaureate Visual Arts offerings. In addition, an individualized program will be established for each student. Students may need to supply some of the materials.

Prerequisite: Drawing and Painting I

SCULPTURE II

1 Unit 40 weeks (6220)

Create large sculptural pieces using techniques the professionals use. Work will average 40 pounds and 24 inches in height. Intense study of the human body and facial anatomy will form the foundation for experiences that will culminate in advanced waste mold and rubber mold casting. All learning takes place in the sculpture studio.

Prerequisite: Sculpture I

SEQUENTIAL ART II

1 Unit 40 weeks - Grades 10, 11, 12 (6198)

Sequential artists combine words and pictures to form effective visual narratives. Students will be creating original narratives. Students not only will use and build on skills acquired in their study of Sequential Art, but also will seek to understand the impact and power of image and narrative in individuals and societies. The work produced in this course will help form a portfolio for college entrance. Students also will further enhance the skills needed in visual storytelling career paths such as animator, concept artist, storyboard artist, illustrator, clean-up artist, and character designer. The course of study for the year will include advanced subjects such as: pacing, transitions, points of reference, panel sequencing and character development.

Prerequisite: Sequential Art I

Media Arts Intermediate Courses

DIGITAL ART & DESIGN II

1 Unit 40 weeks (6331)

This course is for students who have completed Digital Art & Design I. This course delves deeper into the concepts of Digital Art and using the computer for design. Students continue to learn more about the advanced techniques of Photoshop, Illustrator and Maya. These high-end graphic software programs will allow the student to add to their portfolio as they prepare for college. *This course is available for three college credits through SUNY Farmingdale. (VIS 260). Tuition is approximately \$150.*

Prerequisite: Digital Design I or permission of Director of Fine and Performing Arts

MEDIA ARTS PRODUCTION II

1 Unit 40 weeks (6310)

Students will learn about the many forms in which today's media is created and broadcast. After developing basic skills in groups and individualized projects, students will create their own media art suitable for broadcast over a variety of platforms (cable TV, internet media, podcasts, etc.). A major component of this class will be the creation and presentation of video announcements at the high school, and monthly/quarterly online broadcast programs.

Prerequisite: *Media Arts Production I or permission of Director of Fine and Performing Arts*

PHOTOGRAPHY II **1 Unit 40 weeks (6304)**

In this advanced photography course, students will continue to develop the art and techniques of making photographs. They will learn more about film exposure, improve image making skills and prepare work for local and regional exhibitions. *This course is available for three college credits through SUNY Farmingdale. (VIS 260). Tuition is approximately \$150.*

Prerequisite: *Photography I or permission of the Director of Fine and Performing Arts*

VIDEO/DIGITAL FILM II **1 Unit 40 weeks (6308)**

This intermediate course is designed for students to build a video/film portfolio. The course will focus on three major components. The first component will concentrate on how to critique film/television scripts as well as how to write a script for production. Students will watch and analyze existing works to obtain ideas for their own videos/films. The second component involves the technical aspects of video/film production. Students will examine advanced shot set-up techniques as well as acquire lighting and audio skills to apply to their videos. The third component involves the history of film and television. Students will look at the influence of the media on society and of society on the media. Topics include censorship, film/television ratings and political correctness.

Prerequisite: *Video/Digital Film I or permission of the Director of Fine and Performing Arts*

Advanced Arts Courses

Design Arts Advanced Arts Courses

ADVANCED PLACEMENT TWO-DIMENSIONAL OR THREE-DIMENSIONAL DESIGN PORTFOLIO-DESIGN ARTS **1 Unit 40 weeks (6211)**

2D-This portfolio course is intended to address a very broad interpretation of two-dimensional design issues. Students are asked to demonstrate proficiency in two-dimensional design using a variety of art forms. These could include, but are not limited to collage, fabric design, weaving, illustration, and printmaking. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio.*

3D-This portfolio course is intended to address a broad interpretation of sculptural issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive and/or fabrication processes. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. These might include fashion

illustration, apparel, fiber arts, ceramics, or metalwork, among others.

Prerequisites: *At least 1 Foundation Course and 1 Intermediate Course. This is a weighted course. Students may need to purchase some supplies. The AP exam is required; the exam fee is approximately \$96 plus College Board Administrative Fee.*

CERAMICS III **1 Unit 40 weeks (6326)**

Students will further advance and develop ideas and skills in pottery and ceramic design and construction; perfect skills on the potter's wheel, and apply intricate surface treatment to pieces. Each student will pursue an individualized program of study.

Prerequisite: *Ceramics I and II*

FASHION DESIGN & ILLUSTRATION III **1 Unit 40 weeks (6341)**

Fashion Design & Illustration III is the final course for students interested in developing a fashion portfolio. We continue to explore the creative process of fashion through illustration, design and creation of garments. Students will learn to illustrate children's-wear. Students construct their own designs and participate in our annual fashion shows. Optional field trips are planned each year to a fabric store, the Costume Institute at the Metropolitan Museum of Art, the Fashion Institute of Technology and the Garment District. Students may need to supply some of the materials.

Prerequisite: *Fashion Design and Illustration I and II*

ADVANCED VISUAL STUDIES IN FASHION **1 Unit 40 weeks (6333)**

For students who wish to work on an advanced level in Fashion Design & Illustration.

Prerequisites: *A Foundation Course and Fashion Design & Illustration I, II and III. This is a weighted course.*

ADVANCED VISUAL STUDIES IN JEWELRY DESIGN **1 Unit 40 weeks (6327)**

For students who wish to work on an advanced level in Jewelry Design.

Prerequisites: *Jewelry Design I and II . This is a weighted course.*

ADVANCED VISUAL STUDIES IN CERAMICS **1 Unit 40 weeks (6222)**

For students who wish to work on an advanced level in Ceramics.

Prerequisites: Ceramics I, II and III. This is a weighted course.

Fine Arts Advanced Arts Courses

ADVANCED PLACEMENT TWO-DIMENSIONAL OR THREE-DIMENSIONAL DESIGN PORTFOLIO-FINE ARTS

1 Unit 40 weeks (6230)

2D-This portfolio course is intended to address a broad interpretation of two-dimensional design issues. Students will build on their technical talents and enhance their visual communication skills by exploring a variety of design processes and techniques, as well as composition and aesthetic concepts. Students will demonstrate their mastery of materials and graphic problem-solving through any medium they choose. Some examples may include photography, collage, illustration, painting, mixed media and printmaking. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio.*

3D-This portfolio course is intended to address a broad interpretation of sculptural issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive and/or fabrication processes. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. These might include, among others, traditional sculpture, architectural models, apparel, ceramics, fiber arts, or metalwork.

Prerequisites: At least 1 Foundation Course and 1 Intermediate Course. This is a weighted course. Students may need to purchase some supplies. The AP exam is required; the exam fee is approximately \$96 plus College Board Administrative Fee.

ADVANCED PLACEMENT STUDIO ART DRAWING PORTFOLIO

1 Unit 40 weeks (6212)

This course is intended to address a broad array of drawing issues. Emphasis is placed on line quality, light and shadow, form, composition, depth, and surface manipulation. Mark-making should be a main element in all works. A variety of media can be utilized, including graphite, charcoal, paint, printmaking, and digital and mixed media. Student artists may choose any means of expression, including abstract, observational, and invented.

Prerequisites: At least 1 Foundation Course and 1 Intermediate Course. This is a weighted course. Students may need to purchase some supplies. The AP exam is required; the exam fee is approximately \$96 plus College Board Administrative Fee.

ADVANCED PLACEMENT STUDIO/FINE ART 12th Grade Level 1 Unit 40 Weeks (6215)

This course is for the student who is challenging a second Advanced Placement Exam. This is an advanced-level course intended for students to further master their visual arts education in a college environment. Each student is required to create a portfolio that highlights the student's abilities and skills, and demonstrates the student's understanding of the elements and principles of art and design. Students will develop mastery in concept, composition, execution of ideas and technique. The student is to investigate an inquiry question throughout their portfolio. Two aspects of a portfolio will be created—sustained investigation and selected works. Using the elements of art and principles of design, each student is required to create a portfolio of 20 (or more) pieces that highlights their abilities, demonstrates an exploration of their inquiry question, and shows mastery of concepts and composition. Students will choose both the subject they will explore, as well as the medium(s) with which they work. Students are encouraged to explore a variety of concepts and approaches in order to demonstrate their abilities with a range of problem-solving and show versatility. Students will engage in a variety of art-making experiences to identify themes within the concentration section of their portfolio.

Prerequisites: AP art course. This is a weighted course. Students may need to purchase some supplies. The AP exam is required; the exam fee is approximately \$96 plus College Board Administrative Fee.

IB VISUAL ARTS - 1 Unit 40 weeks **11th or 12th Grade Standard Level (6225)** **11th Grade Higher Level (6226)** **12th Grade Higher Level (6228)**

The IB Visual Arts course is designed to ensure that students will develop an intensely personal view of the world of art through an artistic journey. Aesthetic, imaginative, and creative skills will be developed through the study of art history and the skills necessary to formulate visual statements. An investigation workbook will be maintained to demonstrate knowledge, progress and visual experimentation. Regular research and studio work will provide the link between student's personal research and the interrelationship with studio work. Visual Arts is designed around cultural ethnicity and the artistic needs of the students. The curriculum of this course will prepare students for the IB Art Examinations. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year. Students may be expected to provide some of their own materials.

Prerequisite: Foundation Course. This is a weighted course.

SCULPTURE III **1 Unit 40 weeks (6221)**

Students will use previous skills to explore sculpture from the Renaissance through Modern Art to create their projects. Large scale projects and special projects which focus

upon specific mediums will be explored. Additional supplies may need to be purchased by the student.

Prerequisite: *Sculpture I and II*

ADVANCED VISUAL STUDIES IN SCULPTURE

1 Unit 40 weeks (6227)

For students who wish to work on an advanced level in Sculpture.

Prerequisites: *Sculpture I, II and III. This is a weighted course.*

ADVANCED VISUAL STUDIES IN SEQUENTIAL ART

1 Unit 40 weeks (6229)

For students who wish to work on an advanced level in Sequential Art.

Prerequisites: *Sequential Art I and II. This is a weighted course.*

Media Arts Advanced Arts Courses

ADVANCED PLACEMENT STUDIO/MEDIA ARTS 12th

Grade Level

1 Unit 40 Weeks (6237)

This course is for the student who is challenging a second Advanced Placement Exam. This is an advanced-level course intended for students to further master their visual arts education in a college environment. Each student is required to create a portfolio that highlights the student's abilities and skills, and demonstrates the student's understanding of the elements and principles of art and design. Students will develop mastery in concept, composition, execution of ideas and technique. The student is to investigate an inquiry question throughout their portfolio. Two aspects of a portfolio will be created—sustained investigation and selected works. Using the elements of art and principles of design, each student is required to create a portfolio of 20 (or more) pieces that highlights their abilities, demonstrates an exploration of their inquiry question, and shows mastery of concepts and composition. Students will choose both the subject they will explore, as well as the medium(s) with which they work. Students are encouraged to explore a variety of concepts and approaches in order to demonstrate their abilities with a range of problem-solving and show versatility. Students will engage in a variety of art-making experiences to identify themes within the concentration section of their portfolio.

Prerequisite: *AP art course. This is a weighted course. Students may need to purchase some supplies. The AP exam is required; the exam fee is approximately \$96 plus College Board Administrative Fee.*

PHOTOGRAPHY III

1 Unit 40 weeks (6305)

Photography III is a course which offers art students the opportunity to further expand their technical ability, creative powers and visual sensitivity through the completion of a series of major projects in photography determined by the student with teacher guidance. The photographs produced in this course will help form a portfolio for college entrance. *This course is available for three college credits through Five Towns College (VID-145) for Juniors and Seniors only. Tuition is approximately \$50.*

Prerequisite: *Photography I and II or permission of the Director of Fine and Performing Arts*

VIDEO/DIGITAL FILM III

1 Unit 40 weeks (6309)

This advanced course is designed for students to complete a video/film portfolio. The course will focus on three major components. The first component will concentrate on understanding the dynamics of the video/film industry. Students will discover how to develop their own ideas and how to sell these ideas to potential investors (pitch document and treatment). The second component involves the technical aspects of video/film production. Students will experiment with the various visual, lighting and audio skills they have acquired as tools to best translate their ideas to video/film. They will analyze existing works to see how aspects such as pace/rhythm, plot, character development and objects of importance can be emphasized in a story by using strategic video/film methods. The third component involves the history of film and television. Students will look at influential directors and their contributions; compare the Hollywood and Independent industries as well as critique classic/original films and television shows.

Prerequisites: *Video/Digital Film I and II or permission of the Director of Fine and Performing Arts*

ADVANCED PLACEMENT TWO-DIMENSIONAL OR THREE-DIMENSIONAL DESIGN PORTFOLIO-MEDIA ARTS

1 Unit 40 weeks (6236)

2D-This portfolio course is intended to address a very broad interpretation of two-dimensional design issues. Students are asked to demonstrate proficiency in two-dimensional design using a variety of art forms. These could include, but are not limited to, graphic design, digital imaging, photography, collage, and illustration. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio.*

3D-This portfolio course is intended to address a broad interpretation of sculptural issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive and/or fabrication processes. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. These might include, among others,

traditional sculpture, architectural models, apparel, ceramics, fiber arts, or metalwork.

Prerequisites: *At least 1 Foundation Course and 1 Intermediate Course. This is a weighted course. Students may need to purchase some supplies. The AP exam is required; the exam fee is approximately \$96 plus College Board Administrative Fee.*

MEDIA ARTS PRODUCTION III

1 Unit 40 weeks (6311)

Students will continue to create content in a variety of media platforms (cable TV, internet media, podcasts, etc.), suitable for broadcast. Students in *MAP III* will concentrate on digital, non-linear audio/video editing, as the content generated in this class continues to reach further into the district and school community-at-large.

Prerequisite: *Media Arts Production I and II or permission of Director of Fine and Performing Arts*

ADVANCED VISUAL STUDIES IN MEDIA ARTS PRODUCTION

1 Unit 40 weeks (6235)

For students who wish to create advanced content in Media Arts Production. Students in *Advanced Visual Studies in Media Arts Production* will concentrate on digital, non-linear audio/video editing, as the content generated in this class continues to reach further into the district and school community-at-large.

Prerequisites: *Media Arts Production I, II and III. This is a weighted course.*

ADVANCED VISUAL STUDIES IN ANIMATION

1 Unit 40 weeks (6335)

For students who wish to work on an advanced level in Animation. *This course is available for three college credits through SUNY Farmingdale. (VIS 260). Tuition is approximately \$150.*

Prerequisite: *Animation. This is a weighted course.*

ADVANCED VISUAL STUDIES IN DIGITAL ART & DESIGN

1 Unit 40 weeks (6231)

For students who wish to work on an advanced level in Digital Art & Design.

Prerequisites: *Digital Design I and II. This is a weighted course.*

ADVANCED VISUAL STUDIES IN WEB DESIGN

1 Unit 40 weeks (6232)

For students who wish to work on an advanced level in Web Design.

Prerequisites: *Web Design. This is a weighted course.*

ADVANCED VISUAL STUDIES IN PHOTOGRAPHY

1 Unit 40 weeks (6233)

For students who wish to work on an advanced level in Photography.

Prerequisites: *Photography I, II and III. This is a weighted course.*

ADVANCED VISUAL STUDIES IN VIDEO/DIGITAL FILM

1 Unit 40 weeks (6234)

For students who wish to work on an advanced level in Video/Digital Film.

Prerequisites: *Video/Digital Film I, II and III. This is a weighted course.*

INDUSTRY PREPARATION

1/2 Unit 20 weeks (6343)

Industry Preparation is a half-year capstone course for high school juniors and seniors in the Academy of Media Arts, designed to simulate a digital media agency experience. Students will work on real-world projects in various media arts forms, such as video, photography, graphic design, and animation, provided by local businesses. This hands-on internship opportunity allows students to apply their skills in a professional setting, collaborate on interdisciplinary teams, and develop a comprehensive portfolio showcasing a range of client work.

Students may enroll in this course multiple times, as each year offers a unique experience with new projects, clients, and opportunities to further enhance their skills and portfolios.

Prerequisites: *Students must be enrolled in the Academy of Media Arts, have earned two or more Media Arts credits, and be in their junior or senior year.*

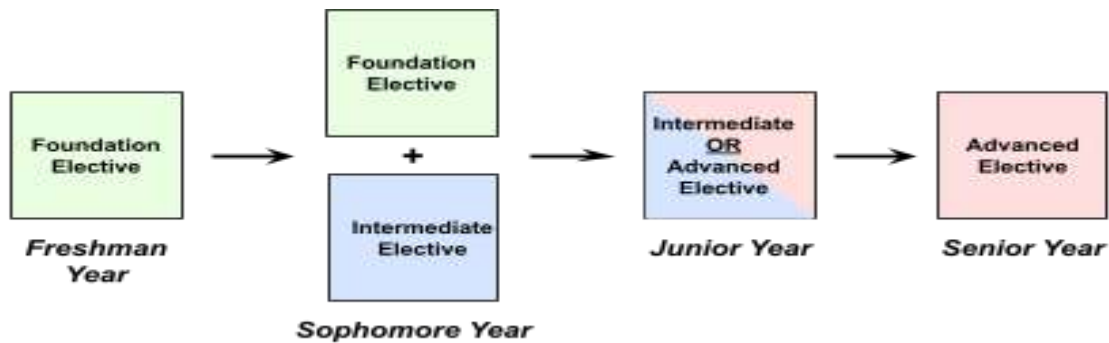
PORTFOLIO PREPARATION

1/2 Unit 20 weeks (6344)

Portfolio Preparation is a crucial course for high school juniors and seniors in the Academy of Media Arts, designed to follow the Industry Preparation course in the spring semester. In this half-year capstone course, students will compile and refine the work they have developed throughout their time in the academy, including class projects and materials from internship experiences. The focus will be on creating college and career-ready essentials: a digital portfolio, a portfolio website, a resume, and business cards, etc... This process will not only showcase their technical skills across various media arts disciplines but also their ability to present themselves professionally to future employers or educational institutions.

Prerequisites: *Students must be enrolled in the Academy of Media Arts, have earned two or more Media Arts credits, and be in their junior or senior year.*

Appendix A: Sample IAAP Pathway



The IAAP-A depicted in this template is a road map to cultivating a rich artistic skill set, culminating in a robust portfolio that paves the way for college readiness. A hallmark of this program is its flexibility, designed to accommodate the evolving interests and talents of each student. Through a tailored journey across diverse art disciplines, students are encouraged to explore, experiment, and excel in their chosen artistic fields.

A significant part of this journey involves ongoing communication with school counselors and art teachers who provide invaluable insight, feedback, and support. They play a crucial role in helping students navigate the IAAP-A, ensuring a well-rounded and fruitful learning experience. To see personalized examples of specific IAAP-A pathways, [CLICK HERE](#).

As students progress through the program, they will delve into capstone courses that emphasize portfolio development. This is a critical step towards showcasing their artistic evolution and preparedness for college and career-level art education. The collaborative nature of this program, coupled with the personalized guidance and the broad spectrum of art disciplines offered, sets the stage for students to not only discover their artistic voice but to be well-prepared for the demands and opportunities of college and the professional art world beyond.

Appendix B: Academy of Media Arts

Izzet Mergen, Ed.D.
Director of Fine and Performing Arts
631-262-6694



The Academy of Media Arts is a comprehensive program designed to prepare students for success in the ever-evolving media industry. By offering a wide range of specialized courses, our program empowers students to develop technical expertise and creative skills while tailoring their educational experience to align with their individual goals and career aspirations. Students can choose from disciplines such as Digital Art & Design, Photography, Media Arts Production, Animation, and Video/Digital Film.

To ensure a well-rounded and adaptable education, we offer a flexible yet structured curriculum. Students interested in exploring various media art disciplines can do so by taking just one course per year. For those pursuing a deeper focus and a CTE certification in their chosen field, we provide a defined sequence of classes within a single medium, fostering expertise and professional readiness.

In their senior year, all Academy of Media Arts students will engage in two essential half-year courses: Industry Preparation and Portfolio Preparation. These capstone courses are designed to provide students with the practical skills and professional insights needed to excel in their future careers and smoothly transition to higher education.

Potential Career Pathways:

Animators, Character Designers, Storyboard Artists, 3D Modelers, Graphic Designers, Digital Illustrators, Content Creator, Social Media Managers, Photographers, Videographers, Video Editors, Film Directors, Web Designers, UI/UX Designers, Photojournalist, Video Game Designer, Mobile App Designer, Advertising Artist



Criteria for Selection

- Interest in one of the Media Arts pathways
Animation, Broadcasting, Digital Design, Photography, Video Production
- Teacher/Guidance Counselor Recommendation

Media Arts Courses:

<u>Foundation Courses</u> Studio in Media Animation Digital Art & Design I Media Arts Production I Photography I Video/Digital Film I Web Page Design	<u>Intermediate Courses</u> Digital Art & Design II* Media Arts Production II/III Photography II*/III+ Video/Digital Film II/III	<u>Advanced Arts Courses</u> Advanced Visual Studies in <i>Animation*, Digital Art & Design, Media Arts Production, Photography or Video/Digital Film</i> AP 2D/3D Design▲
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Capstone Courses

Industry Preparation
Portfolio Preparation

* 3 College Credits available through Farmingdale State College

+ 3 College Credits available through Five Towns College

▲ College Credits available through the College Board

Potential Pathways of Study:

Media Arts Pathway 4 credits total Designed for students who want flexibility, this pathway allows them to explore media arts by taking any three courses of their choice, plus completing the capstone courses, Industry Preparation and Portfolio Preparation.	Specialized Pathway 4 credits total Tailored for students seeking CTE certification, this pathway requires a focused sequence of courses in a single media arts medium culminating in a CTE endorsement on their diploma. <i>Animation</i> <i>Digital Art & Design</i> <i>Photography</i> <i>Video/Digital Film</i>	Specialized Pathway with Merit 5+ credits total For students dedicated to exceeding expectations, this pathway builds upon the Specialized Pathway by requiring five or more total media arts credits, including the capstones, showcasing a broader mastery of media arts disciplines. <i>Animation</i> <i>Digital Art & Design</i> <i>Photography</i> <i>Video/Digital Film</i>
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Media Arts Pathway: Sample Sequence



Specialized Pathway: Sample Sequence



Specialized Pathway with Merit: Sample Sequence



Required Capstone Courses

INDUSTRY PREPARATION *1/2 Unit 20 weeks (6343)*

Industry Preparation is a half-year capstone course for high school juniors and seniors in the Academy of Media Arts, designed to simulate a digital media agency experience. Students will work on real-world projects in various media arts forms, such as video, photography, graphic design, and animation, provided by local businesses. This hands-on internship opportunity allows students to apply their skills in a professional setting, collaborate on interdisciplinary teams, and develop a comprehensive portfolio showcasing a range of client work.

Students may enroll in this course multiple times, as each year offers a unique experience with new projects, clients, and opportunities to further enhance their skills and portfolios.

Prerequisites: Students must be enrolled in the Academy of Media Arts, have earned two or more Media Arts credits, and be in their junior or senior year.

PORTFOLIO PREPARATION *1/2 Unit 20 weeks (6344)*

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Prerequisites: Students must be enrolled in the Academy of Media Arts, have earned two or more Media Arts credits, and be in their junior or senior year.

Business Department

Denise Keenan
Chairperson of Business Education and Assistant Principal
631-262-6666

[Click Here for the Business Education video](#) and [here for the link to Business Course descriptions and videos.](#)

Did you know the #1 college major is Business and that 27% of Northport High School students report they will major in Business in college? Whether you want to be a doctor, lawyer, fashion designer, professional athlete or accountant, business skills will help lead you to success. The Northport High School Business Department offers students courses that will ignite your entrepreneurial spirit, provide you with hands-on learning experiences, exciting field trips, and team-building exercises; all used to prepare students for future experiences that pave the way toward success. Students who participate in Business Education learn valuable skills such as communication, collaboration, problem-solving, critical thinking, innovation, self-advocacy, leadership, and become globally minded citizens.

Graduation Information

Students may use a 5-credit Business sequence to fulfill graduation requirements. A Business sequence will satisfy option #2 (5 CTE units) for the Advanced Regents Diploma. Colleges and employers know that a student with this sequence has mastered many of the skills required for success in the business world. See your school counselor for more information on graduation requirements.

Career and Technical Education (CTE) Certification

The Northport High School Business Department offers the following CTE pathway:

- o Business Management & Entrepreneurship

Students who complete all the requirements for a CTE pathway will receive a CTE credential on their high school diploma. Students with a CTE credential are able to show colleges and employers they have taken rigorous business courses and have participated in work-related experiences in high school.

Academy of Finance

The Academy of Finance Program is a distinguished level National Academy Foundation program. Students take three years of business courses in which they can earn college credits, partake in job shadow days, learn industry knowledge from guest speakers, engage with mentors, participate in resume workshops, learn interviewing skills and receive a paid summer internship. Students apply in 9th grade for the program, which spans 10th grade through 12th grade.

School Store

Are you interested in retail? Join the school store and volunteer after school at our newly remodeled school store. You must be enrolled in a business class to join. You will learn inventory control, use of the cash register, creating window displays, fundraising, and customer service skills.

Higher Level Courses

The Business Department offers a wide variety of higher level courses which accelerate student learning beyond the average high school curriculum through college and IB courses. Successful completion of Business Department higher level coursework prepares students for the challenges of college and careers and gives them an academic advantage over their peers.

Business Honor Society

The Business Honor Society recognizes those students who have demonstrated outstanding achievement in three or more Business courses, with a minimum average of 90%. Students excel in character, leadership, and service. Business Honor Society participates in a wide range of civic and social activities, including fundraising and volunteering. There is a mandatory five-hour community service requirement per year. Applications, transcripts and teacher recommendations will be evaluated and should be submitted prior to the completion of the third course.

DECA

DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe. DECA students compete against students from other high schools in New York and across the nation in various business-related competitions. DECA students develop leadership and business skills necessary for success in our fast-paced business world, in addition to participating in fundraising and community service projects. DECA students host winter and spring craft fairs.

Finance

FINANCIAL LITERACY

½ Unit 20 weeks every day (5610) or

½ Unit 40 weeks every other day (5615)

Grades 9-12

This half year course is offered as a semester course or every-other-day course and is designed for students in grades 9-12 to explore the world of financial literacy. Students will gain the necessary skills and insights to become knowledgeable consumers who will make informed decisions that involve savings, budgeting, investing, interest, insurance, credit, and money management. Students will take the Business Concepts 200 Exam which allows students to pursue the 4+1 graduation pathway.

Marketing

ADVERTISING AND SOCIAL MEDIA MARKETING

½ Unit 20 weeks (5506) Grades 9-12

This course allows students to explore the world of modern Advertising and Social Media. Students will develop a conceptual base in preparing and implementing ad campaigns in a variety of industries, take an in-depth look at today's trends in branding, multi-media exposure, and game changing technological advances, and debate ethical topics from the fast-changing ad world. This course is taught in a collaborative environment where students work together throughout the semester and in the creation of a final project. Students also discover the vast array of career opportunities in the advertising industry.

TRAVEL & TOURISM

½ Unit 20 weeks (5507) Grades 9-12

The hospitality and tourism industry is one of the fastest growing industries in the world. This course covers a wide range of topics in the tourism industry such as the business of tourism, developing and supplying tourism demand, types of tourism, tourism management, sustainability, marketing, hospitality, customer service and communication skills in tourism. Case studies, news media, and field trips will be used to explore current trends and ethical dilemmas, including sustainability and environmental impact. This course is taught in a collaborative environment where students work together throughout the semester and in the creation of a final project. Students also discover the vast array of career opportunities in the hospitality industry.

FASHION MARKETING AND MERCHANDISING

½ Unit 20 weeks (5502) Grades 9-12

This course combines the art of fashion promotion with the science of merchandising, offering a comprehensive overview

of the fashion industry's business side. Students will explore topics such as trend forecasting, consumer behavior, brand development, visual merchandising, retail strategies, and digital marketing. The course emphasizes hands-on learning through projects like creating marketing campaigns, developing merchandising plans, and analyzing market data. By integrating creative and analytical skills, students will gain the knowledge needed to succeed in roles such as fashion buyers, marketers, or retail managers in the dynamic and fast-paced fashion world.

SPORTS MARKETING & MANAGEMENT

1 Unit 40 weeks (5504) Grades 9-12

This course provides an insight into the executive level decision-making in sports marketing. Case studies and news media will be used to demonstrate the business of sports and how other businesses use sports to sell products. Students will look at sports from various aspects such as agent, fan, athlete, manager, and more. Guest speakers and field trips to places such as Madison Square Garden enhance learning. Students will create their own fantasy sports franchises in football and baseball. They will draft players, determine starting line-ups, make trades, and face the real world prospects of winning it all or going down in the agony of defeat!

DIGITAL GENERATION

½ Unit 20 weeks (5704) Grades 9-12

This course examines the influence of digital technology on society, culture, and the ways we communicate and interact. Students will explore topics such as the impact of social media, online communities, digital footprint, and emerging technologies like AI and virtual reality. The course emphasizes critical thinking about digital literacy, ethical considerations, and the evolving role of technology in personal and professional contexts. Through projects and discussions, students will analyze how the digital age shapes identity, relationships, and business, preparing them to navigate and lead in a tech-driven world. This is a blended learning course with several school districts on Long Island and Stony Brook University. This course is offered as a dual enrollment course for three college credits and is available for students 10-12.

WORK STUDY

1 Unit 40 weeks (5906)

Are you working before or after school or on weekends? Through the Work Study program, you can earn school credit for your job as well as learn about specific careers and apply skills learned in school and on the job. This program will not count as one of the six required classes in a high school schedule. Students may sign up through the work/study office in S-223.

College Courses

COLLEGE ACCOUNTING

1 Unit 40 weeks (5810) Grades 11-12

In this course, you will learn to speak and understand accounting - "the language of business". Accounting is used by Wall Street executives and business managers in various industries. You will learn how to prepare basic financial statements for private companies and analyze public corporations' financial statements to evaluate their financial performance. Accounting is a requirement of every college business major; this course is the equivalent of Principles of Accounting 1: Financial Accounting and Accounting 2: Managerial Accounting. This course is available for 6 college credits.

COLLEGE MANAGEMENT AND LEADERSHIP

½ Unit 20 Weeks (5826) Grade 11-12

This course explores the fundamental principles of management and leadership, focusing on the skills and strategies needed to effectively lead teams and organizations in a variety of settings. Topics include organizational behavior, decision-making, strategic planning, communication, team dynamics, conflict resolution, and ethical leadership. Students will analyze real-world case studies, engage in collaborative projects, and develop their ability to adapt to complex and evolving business challenges. Emphasizing both theory and practical application, this course prepares students to inspire and manage individuals and teams, fostering innovation, productivity, and organizational success. In addition, students will prepare a resume and LinkedIn Profile as part of interviewing and personal branding. This course satisfies one of the junior year electives for The Academy of Finance, but students do not need to be a member of AOF to enroll in the course. This course is available for three college credits.

SPORTS MANAGEMENT AND BUSINESS LAW

½ Unit 20 Weeks (5814) Grade 11-12

This semester course introduces students to the world of sports management and civil law. Students will engage in the study of our legal system, contracts, employment law, ethics and agency law. Students will examine how sports contracts are developed including employment contracts, sponsorship agreements, and endorsement deals. Human resources, leadership in sports as well as recent changes in college athlete endorsement deals will also be discussed. This course is available for 3 college credits.

COLLEGE MARKETING

½ Unit 20 weeks (5824) Grade 11-12

This course introduces students to the principles and practices of marketing in a dynamic business environment. Topics include market research, consumer behavior, branding, digital marketing strategies, social media, advertising, and sales techniques. Students will explore how to develop effective marketing plans, analyze market trends, and utilize data to drive decision-making. The course emphasizes creativity, critical thinking, and real-world application through case studies and projects. By the end of the course, students will have a foundational understanding of how marketing influences business success and prepares them for careers in marketing, advertising, or entrepreneurship. This course satisfies one of the junior year electives for The Academy of Finance, but students do not need to be a member of AOF to enroll in the course. This course is available for three college credits.

IB BUSINESS MANAGEMENT- 1 Unit 40 weeks

11th or 12th Grade Standard Level (5802)

11th Grade Higher Level (5804)

12th Grade Higher Level (5806)

IB Business Management is designed to provide students with a foundation in management principles, practices, and skills and to develop an awareness of the ethical and social responsibility issues that exist in business and other organizations both domestically and internationally. Emphasis is also placed on understanding the business functions of marketing, human resource management, and finance. Students will evaluate concepts that affect our multicultural business world. This course requires a variety of IB assessments. The exam fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year. This course is available for six college credits.

VIRTUAL ENTERPRISE

1 Unit 40 weeks (5809) Grades 11-12

Are you ready to manage an on-line business and compete with over 3000 virtual businesses around the world? Virtual Enterprise (VE) is a simulated business that is created and run by students. The experience begins with students choosing a department to work in, creating a resume and interviewing for the job. This course allows students the unique opportunity to experience work roles and responsibilities that exist in an actual business environment. Students participate in the areas of Administration, Accounting/Finance, Marketing, Sales/Purchasing, Web Design, and Human Resources. Once the firm is up and running, the students actually sell their products or services to other virtual enterprise businesses around the world. There are 41 Long Island firms, 500 in the

US, and 3,000 internationally. Through regular ‘staff meetings,’ students in all departments begin to understand the interdependence that exists in a profitable firm. They will also set up a booth at a NYC trade show and enter competitions, including a business plan event. Students who complete the capstone experience become part of the VE alumni network and have access to numerous mentoring programs. VE is perfect for 11th and 12th grade students who are interested in pursuing business as a major in college and as a career. Available for six college credits.

Prerequisite: *At least one college level business class or recommendation from a Business teacher prior to signing up for this course.*



Academy of Finance

Kristen Cogan, Coordinator
(631) 262-6676

The Academy of Finance (AOF) Program is a specialized educational initiative designed to prepare students for careers in finance, business, and related fields. This program offers a comprehensive curriculum that integrates academic coursework with real-world experiences, providing students with a strong foundation in financial principles, accounting, marketing, and business management. Through project-based learning, industry-specific courses, and the use of advanced technology, students gain practical knowledge and skills that are highly valued in today's workforce. The program also emphasizes the importance of critical thinking, problem-solving, and effective communication, ensuring that students are well-equipped for success in higher education and professional settings.

In addition to classroom instruction, the AOF Program provides students with unique experiential learning opportunities, such as internships, mentorships, and networking with industry professionals. These experiences allow students to apply their knowledge in real-world scenarios, build their professional networks, and gain valuable insights into the financial sector. By fostering partnerships with local businesses, financial institutions, and community organizations, the program ensures students have access to resources and opportunities that enhance their education and career prospects. Graduates of the AOF Program are not only prepared for college but also positioned to excel in competitive financial and business environments.

Additionally, successful completion allows students to earn up to 24 college credits. Additional courses are available for college credit which allows students to earn an additional 9 credits.

The Academy of Finance is part of the National Academy Foundation, of which we have received the Distinguished Level. After graduation, students will join the NAF Alumni Network and continue to make connections, find unique job opportunities and give back to the community.

<u>Criteria for Selection</u>	<u>Program Schedule</u>
• Commitment to the three-year program and the summer internship. • Minimum GPA of 80 • Excellent attendance • Application/Essay • Interview 	<u>Sophomore Year</u> Introduction to Business **(½ year/entrepreneurship ½ year) Students who took Financial Literacy as a freshman should take Digital Generation**(half year) and Entrepreneurship**(half year) <u>Junior Year</u> College Accounting* And one of the following pathways: A. College Marketing* (half year) and College Management/Leadership* (half year) B. IB Business Management SL* or HL11* (full year) <u>Senior Year</u> AOF Financial Planning* (half year) AOF International Business* (half year) AOF Summer Internship <u>Optional Courses for College Credit</u> Digital Generation**(half year) Sports Management and Business Law* (half year) Virtual Enterprise* (full year) *College credit available through St. John's University **College credit available through SUNY Stony Brook

*****Any student may challenge one or more AOF courses with the exception of AOF Financial Planning, AOF International Business and AOF Summer internship, which are for AOF Program students only.***

INTRODUCTION TO BUSINESS/ENTREPRENEURSHIP

1 Unit 40 weeks (5601) Grade 10

This full year course is an introduction to the world of business. Students will explore foundational topics in business formation, economics, personal finance, business law, marketing, banking and investment, accounting, and management. Students will develop the leadership and interpersonal skills that will set them apart from their peers and prepare them for a lifetime of achievement. Students learn the critical role entrepreneurs play in the national and global economy. Students study the skills, attitudes, characteristics, and techniques necessary to become successful entrepreneurs. They explore starting a business and learn about the operational issues and financial risks that new businesses face. Students examine ethical issues and develop a framework for managing them. Students identify the risks, returns, and other aspects of entrepreneurship as a potential career. This course is available to sophomores enrolled in the AOF Program and is available for 3 college credits through Stony Brook.

ENTREPRENEURSHIP

½ Unit 20 weeks (5609)

This course is for students who took Financial Literacy as 9th graders and gives students an understanding of the basics of how ideas can grow into businesses and what entrepreneurs need to know to get started and build their business. AOF 10th grade students take this course in conjunction with Digital Generation.

DIGITAL GENERATION

½ Unit 20 weeks (5704) Grades 9-12

This course examines the influence of digital technology on society, culture, and the ways we communicate and interact. Students will explore topics such as the impact of social media, online communities, digital footprint, and emerging technologies like AI and virtual reality. The course emphasizes critical thinking about digital literacy, ethical considerations, and the evolving role of technology in personal and professional contexts. Through projects and discussions, students will analyze how the digital age shapes identity, relationships, and business, preparing them to navigate and lead in a tech-driven world. This is a blended learning course with several school districts on Long Island and Stony Brook University. This course is offered as a dual enrollment course for three college credits and is available for students 10-12.

COLLEGE ACCOUNTING

1 Unit 40 Weeks (5810) Grade 11

In this course, you will learn to speak and understand accounting - "the language of business". Accounting is used by Wall Street executives and business managers in various

industries. You will learn how to prepare basic financial statements for private companies and analyze public corporations' financial statements to evaluate their financial performance. Accounting is a requirement of every college business major; this course is the equivalent of Principles of Accounting 1: Financial Accounting and Accounting 2: Managerial Accounting. Students can earn six college credits.

AOF COLLEGE FINANCIAL PLANNING

½ Unit 20 weeks (5606) Grade 12

This semester course introduces students to the job of a financial planner. It discusses money management and its importance in helping people reach their life goals. It describes how to set personal financial goals and a budget, and explains the factors that shape these goals. It also discusses the ethics of financial planners, time-and-money relationships, and tax reduction strategies. This course concentrates on savings, borrowing and investing. It discusses various types of investments such as passbook savings, money market accounts, stocks, bonds, mutual funds, and real estate. Students will examine retirement and estate planning. Finally, students will create budgets, analyze financial statements and monitor/revise financial plans. The students will meet and learn from industry professionals in the financial services field through the Guest Speaker Series offered in this course. This course is available for three college credits.

AOF INTERNSHIP

½ Unit (5607) Summer Junior Year

AOF students bridge the gap between the classroom and the work force through a first-hand paid internship experience. Students will prepare resumes and be interviewed for positions in various industries including banks, brokerage houses, insurance agencies, accounting firms, real estate firms, as well as financial departments in a variety of corporations and industries. Each student is required to maintain a journal throughout their 120-hour commitment and must complete a presentation highlighting their experiences. This presentation will be shared at the *Employer Recognition Event*, held in the fall of senior year.

INTERNATIONAL BUSINESS

½ Unit 20 weeks (5605) Grade 12

This semester course explores the major components of the international financial system. It includes the study of financial trade, the international monetary system, foreign exchange rates, international financial markets, international banking, multinational corporations, direct foreign investments, and the concept of entrepreneurship. This course incorporates the Culminating Senior Project – *The Hawaiian Pension Fund*, which is required to complete for the Academy of Finance Graduation Certificate. This course is available for three college credits.

COLLEGE MANAGEMENT AND LEADERSHIP

½ Unit 20 Weeks (5826) Grade 11

This course explores the fundamental principles of management and leadership, focusing on the skills and strategies needed to effectively lead teams and organizations in a variety of settings. Topics include organizational behavior, decision-making, strategic planning, communication, team dynamics, conflict resolution, and ethical leadership. Students will analyze real-world case studies, engage in collaborative projects, and develop their ability to adapt to complex and evolving business challenges. Emphasizing both theory and practical application, this course prepares students to inspire and manage individuals and teams, fostering innovation, productivity, and organizational success. In addition, students will prepare a resume and LinkedIn Profile as part of interviewing and personal branding. This course satisfies one of the junior year electives for The Academy of Finance, but students do not need to be a member of AOF to enroll in the course. This course is offered as a dual enrollment course for three college credits.

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11th or 12th Grade Standard Level (5802)

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1 Unit 40 weeks (5809) Grades 11-12

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Prerequisite: *At least one college level business class or recommendation from a Business teacher prior to signing up for this course.*

English Department

Riana DiPalma
Chairperson of English/Language Arts & Library Media
631-262-6680

READ ...

A book must be the axe for the frozen sea within us. (Franz Kafka)

WRITE...

I'll call for pen and ink and write my mind. (William Shakespeare)

SPEAK & LISTEN...

It takes two to speak the truth--one to speak and another to hear. (Henry David Thoreau)

THINK...

It were not best that we should all think alike... (Mark Twain)

The High School English Program

The New York State Board of Regents requires that a minimum of four years of English be taken at the high school level. All students must take at least a total of one credit-bearing course in English each semester.

All students must pass English 9 in order to take English 10, and pass English 10 in order to move on to English 11 and 12. Limited electives are open to 9th and 10th graders if room is available in the specific course. These courses must be taken in addition to English 9 or 10.

The Northport English Department offers a rich elective program for students in 9th through 12th grade. Some electives require permission from the department chairperson. Please see page 26 for details.

All Students are required by the New York State Education Department to take the Comprehensive Regents Examination in English Language Arts. The Comprehensive Regents Examination in English Language Arts will count as a portion of the students' grade for all courses which culminate in this exam.

In accordance with NYS Education Department's recommendations for an integrated curriculum, Northport's well-designed English/Language Arts program ensures that student will learn to use language to: 1) gain information, discover meaning, and understand logical relationships, 2) make judgments through critical listening, reading, and viewing, 3) speak and write with clarity, style, and originality, 4) solve problems creatively, 5) communicate ideas, emotions, opinions, values, experiences, and information, and 6) discover both the power and the beauty of literature as a mirror of human experience, reflecting human motives, conflicts, values, and traditions. Thus, even a course which is labeled as a "speech" course or a "literature" course, does; in fact, incorporate the many other Language Arts strands as well.

Dynamic communication flourishes in an environment like Northport High School, where language is used in a variety of meaningful experiences and activities. Language enables an individual to express thought, and then to refine and clarify the thought. Clear thinking and precise language are inextricable and, in an integrated English/Language Arts curriculum, opportunities abound for thinking and language to stimulate and sustain each other.

Class participation is an integral component of the ELA program. Consequently, regular attendance, punctuality, and preparation are expected and necessary for success.

How to Select 11th/12th Grade Courses

STEP #1: Consult with your teacher, counselor, and parent on an overall program with consideration of your interests and achievement level.

STEP#2: Skim through the COURSE DESCRIPTIONS section to get an overall sense of the scope and sequence of courses.

STEP #3: Read the complete description of your selected courses, paying attention to qualifiers like "Seniors Only," or "College Credit Available," or "After School Class," etc.

STEP #4: Discuss your choices with your English Teacher and Guidance Counselor before selecting a course of study.

STEP #5: Select a course; choosing an alternate should you not be able to get your first choice at this time. Courses which do not have sufficient enrollment will not be offered.

Please be sure you have read the overview and the directions on the preceding pages.

	Grade 9	Grade 10	Grade 11	Grade 12
C o u r s e s	English 9	English 10	Full Year Courses:	Full Year Courses:
			AP Language and Composition (E-113) IB English Literature HL 11 (E-116) IB English Language and Literature HL11 (E-123) Composition / Language and Literature (E-296)	AP English Literature and Composition (E-112) IB English Literature HL 12 (E-118) IB English Language and Literature HL 12 (E-123) IB Philosophy SL College English Project Advance (E-114) English College Prep & Literary Traditions (E-122) E-Team English (E-9122)
E l e c t i v e s	Creative Writing Film Criticism I (Does not fulfill English Credit)	Creative Writing I & II Film Criticism I Research Seminar and Independent Research (Does not fulfill English Credit)	Does not count for English Credit SAT Prep Verbal/Math – Fall/Spring Creative Writing I & II Film Criticism I Research Seminar and Independent Research (Electives do not fulfill English Credit)	Creative Writing I & II Film Criticism I Research Seminar and Independent Research (Electives do not fulfill English Credit)

Course Descriptions - English 9 & 10

(Limited electives are also open, in addition to English 9 and 10, depending on enrollment numbers.)

ENGLISH 9

1 Unit 40 weeks (E-40)

NCAA Approved

In this course, students are exposed to a wide range of texts from different periods, styles and genres both contemporary and classic. Emphasis is placed on developing proficiency for recognizing and developing reading, writing, and speaking skills that enable students to address and determine audience, purpose, tone, and form. Students engage in both independent and shared reading experiences with grade appropriate texts to analyze, evaluate, and contrast stylistic text features and their affect on the reader. Students consider the impact of language and aspects of cultural and historical significance on the impact and significance of a text and audience. Students read, write, speak, and listen for information and literary expression and to persuade. This course also prepares students to evaluate the validity and reliability of texts particularly when conducting research.

ENGLISH 10

1 Unit 40 weeks (E-50)

NCAA Approved

Students will continue to develop their listening, speaking, reading and writing skills through classroom discussions, close readings, oral presentations, and writing tasks supported by teacher feedback. Texts studied and analyzed include informational and literary texts including poems, short stories, essays, art, speeches, and media. Additionally, students will build on their knowledge/skills of MLA research by producing research papers that require both secondary and primary resources and that require students to manipulate multiple sources and use appropriate peer-reviewed databases. Students will demonstrate sophisticated language skills including proficient use of academic vocabulary. As in their 9th grade course of study, students will evaluate the role of audience, purpose, and genre and will develop multi-genre projects.

Course Descriptions - English 11

11th Grade - AP ENGLISH LANGUAGE AND COMPOSITION

1 Unit 40 weeks (E-113)

NCAA Approved

The AP course in English Language and Composition engages students in the study of prose written in a variety of periods, disciplines, and rhetorical contexts. In this course, students write in a variety of forms including narrative, expository, argumentative, personal, and reflective in order to develop the confidence and skills expected in college courses as well as in their personal and professional lives. Primarily through the study of non-fiction texts, students analyze how writers construct complex texts through the use of rhetorical devices, sophisticated vocabulary and sentence structure, and

appropriate use of diction. It is expected that students who enroll in the class already understand and use standard English grammar and read on or above grade level. As a general rule, students should have at least a 90% average in 10th grade English and the recommendation of their teacher to enroll in this class. Students are required to sit for the AP Language Exam in May. There is a fee for this exam. **This course is open to 11th grade students only.** Students sit for Common Core Regents in June.

IB PHILOSOPHY - 1 Unit 40 Weeks

11th or 12th Grade Standard Level (E-119) NCAA Approved

See Course description in twelfth grade section.

IB ENGLISH LITERATURE

1 Unit 40 weeks

11th Grade Higher Level (E-116)

12th Grade Higher Level (E-118)

NCAA Approved

The two year IB English Literature course, of which 11th Grade Higher Level (E-116) is the first course and is taken in 11th Grade, and which 12th Grade Higher Level (E-118) is the second course and is taken in 12th grade, develops understanding of the techniques involved in literary criticism and promotes the ability to form independent literary judgments. In literature, the formal analysis of texts and wide coverage of a variety of literature- both in the language of the subject and in translated texts from other cultural domains-are combined with a study of the way literary conventions shape responses to texts. Students completing this course will have a thorough knowledge of texts that cover a wide range of time periods and literary genres including novels, poems, plays and nonfiction works. They will also have developed skills of analysis and the ability to support an argument in clearly expressed writing. The course addresses all literacy standards outlined in the common core including reading, writing, speaking, and listening for both literary and non-literary texts. Students will appreciate the artistry of literature and develop an ability to reflect critically on their reading with an emphasis on literary style, form, techniques, motifs, diction, and themes. Students will demonstrate their ability to provide literary commentary about prose and poetry, both in written form and orally. The course helps students focus closely on the language of the texts they study and to become aware of the role of each text's wider context in shaping its meaning. Practically, this means students will develop an appreciation of the impact of the context (cultural and social) of both writer and reader on textual construction and interpretation. **IB English Literature** requires a variety of internal and external written and oral assessments which will begin in the junior year and conclude during the senior year. IB Exam fees established by the International Baccalaureate Organization are approximately \$130 which are due in early October of the students' senior year. Students sit for Common Core Regents in June of 11th grade.

Prerequisite: English 10

IB ENGLISH LANGUAGE AND LITERATURE

1 Unit 40 weeks

11th Grade Higher Level (E-123)

12th Grade Higher Level (E-124) NCAA Approved

The two year IB English Language and Literature course, of which 11th Grade Higher Level (E-123) is the first course taken, and which 12th Grade Higher Level (E-124) is the second course and is taken in 12th grade, focuses on developing an understanding of the constructed nature of meanings generated by language and the web of relationships they share with the social world. Two parts of the course relate to the study of language and two to the study of literature. A key aim of this course is to encourage students to question the meaning generated by language and texts. The course helps students focus closely on the language of the texts they study and to become aware of the role of each text's wider context in shaping its meaning. Practically, this means students will develop an appreciation of the impact of the context (cultural and social) of both writer and reader on textual construction and interpretation. The appreciation of literary techniques as used in the various genres of literature forms an important aspect of this study as well. Through oral and written commentary as well as comparative textual analysis, students will develop an understanding of how language, culture and context determine the ways in which meaning is constructed as well as think critically about the different interactions between text, audience and purpose.

IB English Language and Literature requires a variety of internal and external written and oral assessments which will begin in the junior year and conclude during the senior year. IB Exam fees established by the International Baccalaureate Organization are approximately \$130 which are due in early October of the students' senior year. Students sit for Common Core Regents in June of 11th grade.

Prerequisite: English 10

COMPOSITION/ Language and Literature

1 Unit 40 weeks (E-296)

NCAA Approved

In this course, students will be exposed to a wide range of texts from different periods, styles, and genres and will engage in close, detailed analysis and comparison of text features and structure. The course addresses all literacy standards outlined in the common core including reading, writing, speaking, and listening for both literary and non-literary texts. This class teaches students to organize their ideas into effective paragraphs and how to construct clear, logical, research-based arguments presented through writing and oral expression. Students focus on reading and writing in a variety of contexts and for a variety of audiences and purposes including writing

to inform and to persuade. Students will compose a variety of expository texts including argumentative and researched essays. Emphasis will be placed on language and rhetorical skills. Models of professional written work are discussed.

Course Descriptions - English 12

Selective course descriptions are divided into full year courses, fall or spring courses, fall only courses, and spring only courses. Students who wish to take one of the electives open to 9th and/or 10th graders must have approval from the Department Chairperson. Please see the English Course Selection chart on the first page of this section. English electives do not fulfill English requirements for 9th, 10th, 11th, or 12th grade.

COLLEGE WRITING AND LITERARY TRADITIONS

1 Unit 40 weeks (E-122)

NCAA Approved

Students will hone their skills in the areas of literary analysis, researched papers, personal essays, listening, writing, and reading for information, literary expression, and critical analysis. Students will briefly review the application process, but this class focuses on preparing for the academic demands of college. Students will become familiar with a variety of research tools, sources, and methods, and they will employ this research in a variety of formats, books, periodicals, databases, websites, and other sources will be examined and evaluated. Students will practice thorough and systematic research on both assigned academic topics, as well as topics of personal interest.

This course, intended as a bridge between high school and college English, requires of its students a dedication to the close reading of texts including informational and literary texts. Students will learn to explore, interpret, and, it's hoped, enjoy a wide variety of challenging texts, from the ancient to the modern. Epics, novels, short fiction, poetry, drama, essays and other print and visual media will be studied in this course. Students will engage in class discussions about texts and traditions in literature. Students will write formal essays and researched essays as well as literary analysis and shorter more informal journals and reflections.

12th Grade-AP ENGLISH LITERATURE AND COMPOSITION

1 Unit 40 weeks (E-112)

NCAA Approved

Advanced Placement English is a college level, full year course which stresses reading, writing, and discussion. Sustained emphasis is placed on close analysis of a wide variety of literature and on achieving an understanding of an author's themes, and of the devices being used to articulate, develop, and/or embellish those themes. AP English Literature is open to seniors only with no exceptions. As a general rule, students in an academic class should have at least a 90% average in 11th grade English and students in an advanced course should have a minimum of an 80% average in their

11th grade class. The AP exam is required; the exam fee is approximately \$95.00 plus College Board Administrative Fee plus College Board Administrative Fee. Students can earn three college credits from Stony Brook University's English Accelerated College Education Program (E-192 - Intro to Fiction) through the successful completion of this one semester course. Tuition is approximately \$300 for this course.

IB ENGLISH LITERATURE Higher Level

12th Grade - 1 Unit 40 weeks (E-118) NCAA Approved

Please see the course description for IB English Literature HL 11. This course requires a variety of internal and external assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year. Prerequisite: IB English Literature HL 11.

IB ENGLISH LANGUAGE AND LITERATURE Higher Level

12th Grade - 1 Unit 40 weeks (E-124) NCAA Approved

Please see the course description for IB English Language and Literature HL 11. This course requires a variety of internal and external assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year. Prerequisite: IB English Language and Literature HL 11.

IB PHILOSOPHY - 1 Unit 40 Weeks

11th or 12th Grade Standard Level (E-119) NCAA Approved

The IB Philosophy Course is designed to enable and encourage students to deal with issues that are profound, complex, challenging and important for humanity. The class will explore fundamental questions concerning things such as the nature of existence, and it will also confront contemporary problems arising in society today, including those that result from increasing international interaction. The emphasis of this course is on "doing" philosophy. Students will need to become aware of their own biases and to engage in critical and systematic thinking as well as careful analysis of arguments, the study of philosophical themes and a close reading of various texts. This course requires a variety of external and internal IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

COLLEGE ENGLISH PROJECT ADVANCE

12th Grade - 1 Unit 40 weeks (E-114) NCAA Approved

[PA English WRT 105](#)

[PA English ETS 192](#)

Project Advance is a rigorous full-year college course offered through Syracuse University. WRT 105 is an introduction to college and academic writing offered during the Fall semester. WRT 105 engages students in analysis and argument and

practices that are interdependent and will carry across academic disciplinary lines and into professional and civic writing. ETS 192 is a theory class focused on gender and literary texts that is offered during the Spring semester. ETS 192 explores concepts of difference including gender, race, ethnicity, nationality and class through discussion and analysis of critical readings. Both WRT 105 and ETS 192 are writing intensive courses that will strengthen skills in writing, revision, editing and reflection. Additionally, both courses will focus on teaching students how to formulate and sustain interpretative, analytical and/or conceptual arguments. Upon successful completion, students may earn six (6) college credits through the modified tuition of approximately \$680.

ENVIRONMENT TEAM ENGLISH NCAA Approved

See E-team.

Half Year Courses - Fall or Spring

FILM CRITICISM I

½ Unit 20 weeks (E-430)

This course encourages students to think and write critically and reflectively about selected contemporary and classic films, as well as foreign films and documentaries. Students will analyze and discuss themes, elements and techniques employed by the film maker. Students will prepare and deliver oral and/or written responses and critiques based on the film and occasionally brief supplemental readings. Additionally, students will have an opportunity to complete an in-depth study of a particular director, actor, or genre. The grade will be determined by short reaction papers, film critiques, and active class discussion, as well as quizzes and tests. This is an English elective class that students may take in addition to their core English class.

Students can earn three college credits from Stony Brook University's English Accelerated College Education Program (E-194 - Intro to Film) through the successful completion of this one semester course. Tuition is approximately \$300 for this course.

SAT PREP VERBAL/MATH

½ Unit 20 weeks (493)

This course will prepare students for taking the PSAT/SAT and ACT. The course will be divided into two segments and taught by two teachers, English and Math, in ten-week segments. This course is recommended for juniors* and does not replace the required Math or English course. College-bound students are encouraged to enroll in this program.

*Seniors may take the class with permission from the Chairperson. Once enrolled, students are not permitted to drop after taking the SAT.

CREATIVE WRITING I

½ Unit 20 weeks (371)

NCAA Approved

Student writing is the central focus of what we do in Creative Writing. Creative non-fiction, memoir, autobiographical vignettes, fiction stories, fantasy and poetry – all student authored – will be produced, read aloud anonymously and ‘work shopped’ (discussed, gently and positively critiqued) by the class. It’s fun – and some hard work. Powerful discussions about writing (and the world it embraces) are a feature of the class. Much of the writing and editing is done in class. Published authors will make occasional visits, and reading great short works of literature (classic and modern) will be a part of the work of the class, as well. This is an English elective class that students may take in addition to their core English class.

CREATIVE WRITING II

½ Unit 20 weeks (115)

NCAA Approved

A continuation and expansion of the instruction begun in Creative Writing I, the course requires a firm commitment to the art and craft of writing. An emphasis is placed on memoir writing, balanced by assignments in fiction. In all cases, students will be mining their personal experience as a foundation for writing. The “workshop” model – in which all student work will be read aloud and discussed by fellow writers – is the essential tool for writer progress. Some reading – essays, short stories and a novel or memoir – is required. This course is not limited to students who have completed Creative Writing I; strong writers will be admitted with prior permission from the instructor.

Reading Intervention Services

Tara Gaiss
Reading and AIS Coordinator
631-486-7003

FUNDAMENTALS OF READING 9-12

40 weeks - No credit given

(E-497)

This course is offered to students who need to strengthen their decoding and encoding skills. Instruction in this class will focus on developing decoding and building vocabulary while using word strategy lessons in a multi-sensory approach to learning.

READING WORKSHOP 9

40 weeks - No credit given

(E-490)

This course is offered to 9th grade students to help improve the student's reading comprehension skills and meet state standards. Through the use of informal reading inventories, teachers address the needs of individual students. Instruction in this class emphasizes skills and strategies to improve reading comprehension and academic vocabulary. In addition, students will apply active reading strategies to reading material both narrative and expository. This course is a full-year course..

READING ACROSS THE CONTENT AREAS 10-12

40 weeks - No credit given

(E-494 Fall & Spring)

This course is offered to students in grades 10-12 to further develop reading comprehension skills and provide literacy support across the content areas. Instruction in this class will focus on strategies that can be applied across the content areas with both narrative and expository text. In addition, academic vocabulary strategies and test taking strategies to prepare students for the NYS English Regents will be taught and applied using various texts. This course is full year course.

ESL BASIC READING

1 Unit - 40 weeks (706)

In this course, students will be exposed to skills and strategies that enable students to decode and comprehend English. language texts. Instruction in this class will focus on phonological sequencing to build a foundation of sounds, syllables, words, and sentences. Students' reading and comprehension ability will be the primary focus in this course. There will be opportunities to learn and understand new

vocabulary, speak and write, and read a variety of text types.. This is a full year course. It is graded "pass/fail."

ENL INTERMEDIATE READING (705)

In this class, students will be exposed to additional skills and strategies that enable them to read more complex texts and learn the strategies necessary to decode and understand print. This is a full year course and will be graded as "pass/fail".

Prerequisite: Completion of the ENL Basic Reading Course (706)

The Environment Team



Courtney Clark, Social Studies
Thomas Franco, English Language Arts
James Kubik, Science

The **Environment Team** (9130) is a college preparatory, interdisciplinary program. Utilizing classroom and field experiences, students study content in several academic disciplines across the curriculum that includes Social Studies, English, and Science. The program provides 3 ½ credits toward high school graduation and includes the potential for dual enrollment college credit.

The Environment Team meets for period one through four, five days per week. Students are immersed in challenging experiences that demand participation and dedication going beyond the traditional academic environment. Field experiences, including some overnight trips, are conducted in authentic settings including legislative assemblies, museums, and unique ecosystems and ecological environments. In the past, this has meant doing field work to help pass the Suffolk County plastic bag law, hands-on study of problems affecting the local environment, and participation in The Long Island Sound High School Summit. The work of the E-Team has been recognized by the Suffolk County Legislature, the NYS DEC, Newsday, News12, and various environmental groups including the Citizens Campaign for the Environment and the Department of Environmental Conservation.

The program strives to produce productive global and environmentally conscientious citizens while preparing for a future of self-discovery. Participation in the Environment Team, or E-Team, is a life changing experience for many students. They describe it as being a part of a family and come to feel they are a part of something important and bigger than themselves.

[CLICK HERE for an E-Team Brochure with Alumni Testimonials](#) and here for an **[E-Team Video](#)**

Students interested in the E-Team must register for all courses listed below; including course 9130. Students also have the option to register for dual enrollment credit for one or all of the core classes. Students may earn 3 credits for E-Team English from Stony Brook University ACE Program, 3 credits for E-Team Science from SUNY ESF, and/or 3 credits for E-Team Social Studies from SUNY ESF. The curriculum provides a structured, experience-based series of activities that are governed by course content across the following disciplines.

E-TEAM ENGLISH/College Writing & Intro. Fiction

1 Unit 40 weeks (9121)

NCAA Approved

Students will hone their skills in the areas of literary analysis, research, personal essay (college admissions), listening, writing, and reading for information, literary expression, and critical analysis. Students will read a variety of novels, plays, short stories, poems, and nonfiction pieces covering traditional English classroom themes as well as those with an environmental focus. Students can earn three college credits from Stony Brook University's English Accelerated College Education Program (E-192 Introduction to Fiction) through successful completion of the one semester Introduction to Fiction portion of this full year course. Tuition is approximately \$300 for this course.

E-TEAM SCIENCE/Global Environment I

1 Unit 40 weeks (9123)

NCAA Approved

How can we become participatory citizens who understand the complex scientific and social issues behind the headlines, make informed decisions, and meet these environmental challenges? Global Environment will help you to gain the knowledge and tools to make informed decisions regarding the environment and the earth's future and to be able to understand the connections between such varied topics as pollution, deforestation, climate change, acid rain, soil depletion, economics, evolution, history and social justice. The Global Environment deals with the "Big Questions" not from strictly economic, environmental, or biological approaches but from an integration of the social and physical sciences. This interdisciplinary approach allows for a clearer view of reality that makes the Global Environment unlike any other environmental course. Students have the opportunity to earn three college credits through SUNY ESF by enrolling in E-Team Science at an approximate cost \$200.

E-TEAM SOCIAL STUDIES/PARTICIPATION IN GOVERNMENT AND ECONOMICS

1 Unit 40 weeks (9122)

NCAA Approved

The goal of this twelfth year program in Social Studies is to prepare students to participate as active citizens in our democratic society and to understand the theory and realities of our global economic world. Students are involved in multiple community service projects, student-directed civic activism and research based projects.

E-TEAM ADVISORY

40 weeks every other day (9120)

Students and E-Team teachers meet during this period to foster horizontal integration between the core classes. This includes special projects and team building activities.

Prerequisites for the program: *The Environment Team is open to seniors only. Application and interview are required for acceptance. Please see any E-Team teacher in L105.*

Family and Consumer Sciences

Terrence Hinson
Assistant Principal and Chairperson of Family and Consumer Sciences
631-262-6668

Family & Consumer Sciences education prepares students for both the work and family spheres of life. These courses are designed to help students become critically reflective of the social forces which impact individuals and families. Students are prepared to face the economic, sociopolitical and technological challenges which are transforming our world. The curriculum is drawn from multiple disciplines including the social sciences, physical sciences, economics, and the arts.

The Family & Consumer Sciences Department of Northport High School has an array of courses and programs to meet a variety of student interests and needs. The clarification of values, personal and professional management, parenting skills and interpersonal relationships are major features that unify the course work and are integral parts of both the professional and personal aspects of life.

Various courses will be offered which will include a parenting component that will satisfy the state mandate for parenting education for students enrolled in the ninth grade.

The Family & Consumer Sciences Department offers a wide variety of courses in Nutritional Sciences and Human Development courses. Students may use a 5-credit sequence in Family & Consumer Sciences to fulfill graduation requirements.

The Family & Consumer Sciences courses are grouped into two categories:
Nutritional Sciences and Human Development.

Nutritional Sciences	Units	Grade
Introduction to Foods	.5	9-12
Creative Culinary Arts	.5	9-12
American Regional Foods	.5	9-12
International Foods	.5	9-12
World Cuisine	.5	9-12
Nutritional Science Planning and Administration	.5	11-12
Human Development and Management		
Child Psychology & Development	1	11-12
Early Childhood Education	1	9-12
Early Childhood Education Planning and Administration	1	12
Early Childhood Literacy Lab	.5	10-12
The Real World	.5	11-12

Nutritional Sciences

INTRODUCTION TO FOODS

½ Unit 20 weeks (7002)

Introduction to Foods is a fast moving basic food preparation course designed for those students who are interested in developing skills either for personal enrichment or for career potential. This course will help the student develop an understanding of sound nutritional concepts through many hands-on experiences related to food and nutrition.

AMERICAN REGIONAL FOODS

½ Unit 20 weeks - (7006)

Come discover the rich culinary heritage of the United States. The American Regional Foods course is designed to expose students to the many geographic regions of the United States through the medium of food. Students will “eat their way” across the country and experience cultural diversity and its impact on the American diet. Basic food preparation and techniques will be covered in this fast-moving, food intensive lab course.

DECORATIVE CULINARY ARTS

½ Unit 20 weeks (7005)

This project-based course will allow students to experience many aspects of artistic and decorative food preparation. We will include cookie and cake decorating, chocolate molding, gingerbread house construction and extreme food preparation. Students will be encouraged to combine food preparation skills and creative expression for both personal satisfaction and future career options.

INTERNATIONAL FOODS

½ Unit 20 weeks (7004)

Experience the culture and culinary delights of other regions and countries of the world. Learn the fundamentals of food preparation as well as gain an understanding of those factors that influence individual food choices. Experience a wide variety of foods in a fast-moving lab course. Students will explore the foods of Mexico, Germany, France and Greece. Eat your way around the world in one semester!

WORLD CUISINE

½ Unit 20 weeks (7003)

Cook and learn about foods from countries around the world. Learn the fundamentals of food preparation as well as gain an understanding of those factors that influence individual food choices. Experience a wide variety of foods in a fast-moving lab course. Students will explore the foods of China, Italy, the British Isles and Spain.

NUTRITIONAL SCIENCE PLANNING AND ADMINISTRATION

½ UNIT 20 WEEKS (7003)

This course is designed for students who are interested in pursuing a career in the world of Culinary Arts. Students will assist in the daily operation of the nutritional foods programs, as well as complete various assignments designed to enhance their knowledge of the planning and administration practices involved in modern commercial kitchens.

Prerequisites: Students must have completed or be enrolled in all five Nutritional Science course or have approval by teacher.

Human Development

CHILD DEVELOPMENT

1 Unit 40 weeks (7010), Grades 11-12 only

An in-depth college level course exploring the psychological development of the child, from infancy to middle childhood. Theories of learning, influences on behavior and their impact on human development will be studied. Students will be observing and working with children in field study experiences.

As an option, 3 college credits from Adelphi University may be earned by a tuition payment and successful course completion.

EARLY CHILDHOOD EDUCATION PROGRAM

1 Unit 40 weeks (7008)

High School students will receive training to participate in Northport's Preschool Program. They will observe and interact with children, and plan and implement learning activities for these children. This course explores the growth and development of the preschool age child.

EARLY CHILDHOOD EDUCATION PLANNING AND ADMINISTRATION

1 Unit 40 weeks (7009) Grade 12 Only

This course is designed for students who are interested in pursuing a career in education or working with children. Students will assist in the daily operation of the preschool program, as well as complete various assignments designed to enhance their knowledge of the planning and administration practices involved in an educational program.

Prerequisites: Early Childhood Education, students must have completed or be enrolled in Family Dynamics, Literacy Lab and Child Psychology. Students are encouraged to be active members of the Future Educators Association. Selection will be based upon a minimum GPA of 80, as well as teacher recommendation.

EARLY CHILDHOOD LITERACY LAB

½ Unit 20 weeks (7011)

Students will gain an understanding of emergent literacy and how picture books, music and computer literacy can increase literacy skills. High school students will learn how to share literacy tools effectively with young children. Community preschool children will be invited to attend the Literacy Lab located in the high school classroom. High School students will plan and administer various lessons designed to enhance literacy skills in the preschool child.

Prerequisite: Early Childhood Education

FAMILY DYNAMICS

½ Unit 20 weeks (7020)

This course is designed to give students an opportunity to explore the contemporary issues facing them, and to investigate the many choices and challenges open to them as they deal with these issues. They will examine the family unit and analyze the adolescent's role within the family. Ways in which the adolescent can effectively relate to younger children will be identified and practical applications will be developed. High School students will participate in the Northport High School Toddler Program. This course explores the growth and development of the toddler age child.

THE REAL WORLD

½ Unit 20 weeks Grades 11 and 12 (7015)

As you prepare for life beyond high school, are you ready to take on the responsibility that accompanies living on your own? This hands-on course will give students the necessary survival skills to live independently, whether they choose the path to college or work. Topics include:

Clothing: Laundry workshops, basic clothing repair, ironing skills, creating a clothing budget.

Culinary: Cooking for one, microwave cooking, healthy eating choices, eating on a budget, college food plans.

Finance: Checking accounts, credit cards, debit cards, expenses, budgeting.

Living: Apartment and dorm choices, room layout, storage, bedding, furniture, roommates.

Management: Time organization / management, balancing work and free time, task completion, safety.

Health Education

Mark J. Dantuono
District Director of Physical Education, Health & Athletics
631-262-6701

Health is offered to 10th through 12th grade students. All students must enroll for one semester as the course is required for graduation.

Several methods of presentation will be used to deliver the comprehensive curriculum including videos, DVDs, discussion and guest speakers. These methods assist in diversifying the presentation and will provide a variety of views to assist students in decision-making techniques related to living a healthy life.

HEALTH EDUCATION

½ unit 20 weeks (9009)

Grades 10, 11, & 12 - semester course, meets daily

This course will present instruction in the state mandated areas as well as state recommended areas for health education. These topic areas include mental and emotional health, decision making skills and coping mechanisms, substance abuse, HIV/AIDS, chronic illnesses, nutrition, and human growth and development. This course will also include various presentations from outside agencies that are familiar with the needs of our community. Presentations from agencies will discuss topics pertaining to improving the overall well-being of our students now and into their future. Health Education is a required course for graduation.

HEALTH EDUCATION

½ unit 20 weeks (9011)

Grades 10, 11, & 12 - year-long course, meets alternate day

This course will present instruction in the state mandated areas as well as state recommended areas for health education. These topic areas include mental and emotional health, decision making skills and coping mechanisms, substance abuse, HIV/AIDS, chronic illnesses, nutrition, and human growth and development. This course will also include various presentations from outside agencies that are familiar with the needs of our community. Presentations from agencies will discuss topics pertaining to improving the overall well-being of our students now and into their future. Health Education is a required course for graduation.

INTRODUCTION TO ATHLETIC TRAINING/SPORTS MEDICINE I

½ Unit 20 weeks (9004)

Sports medicine focuses on helping people improve their athletic performance, recover from injury and prevent future injuries. It is a fast-growing healthcare field, because health workers who specialize in sports medicine help all kinds of people, not just athletes. This course will provide students with information on the prevention and management of athletic injuries, human anatomy, sports nutrition, training and conditioning techniques, emergency procedures, musculoskeletal conditions, and general sports medicine concerns. Students will also have the opportunity to learn various taping and wrapping techniques used during athletic

competition. Students will be introduced to the various healthcare professions associated with sports medicine, from athletic training to sports psychology. This course is available to 9th through 12th grade student.

SPORTS MEDICINE II: CARE AND PREVENTION OF ATHLETIC INJURIES

½ Unit 20 weeks (9006)

Sports medicine professionals treat amateur athletes, those who want better results from their exercise program, people who have suffered injuries and are trying to regain full function and those with disabilities who are trying to increase mobility and capability. This course is a continuation of the Introduction to Athletic Training/Sports Medicine class and will go into the specifics of joint evaluation, injury management and rehabilitation, taping and wrapping techniques, emergency preparedness, sports psychology and specific medical conditions associated with athletics. This course is a hands on approach to learning with lab activities focused on learning evaluations and taping strategies.

Course Prerequisites: Introduction to Athletic Training/Sports Medicine I

IB SPORTS, EXERCISE and HEALTH SCIENCE

11th or 12th Grade Standard Level

1 Unit 40 Weeks (9008)

Scientific inquiry conducted over many decades has accumulated a vast amount of information across a range of disciplines that contribute to our understanding of health and human performance in relation to sport and exercise. In a world where many millions of people are physically inactive and afflicted by chronic disease and ill health, the sport and exercise scientist should be equally proficient when prescribing exercise for the promotion of health and well-being.

The IB course in Sports, Exercise and Health Science involves the study of the science that underpins physical performance. The course incorporates the traditional disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health. Students will cover a range of core and optional topics and carry out practical (experimental) investigations in both laboratory and field settings. This will provide an opportunity to acquire the knowledge and understanding necessary to

apply scientific principles and critically analyze human performance. Where relevant, the course will address issues of international dimension and ethics by considering sport, exercise and health relative to the individual and in a global context.

This course requires a variety of external and internal IB assessments and is open to juniors and seniors only. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

International Baccalaureate Diploma and Certificate Programs

Kristen Rozell
IB Diploma Program Coordinator
631-262-6890

The International Baccalaureate (IB) Diploma Program is an internationally recognized curriculum that offers 11th and 12th grade students an opportunity to earn the IB Diploma or one or more IB Certificates. The program is offered in more than 3,500 public and private schools in over 150 countries around the world. To earn the **IB Diploma**, students must complete and test in six IB subjects; write an extended essay of independent research guided by a faculty mentor; complete 150 hours of creativity, activity, and service activities (CAS); and participate in a critical thinking course called Theory of Knowledge. This advanced, comprehensive program of study offers an integrated approach to learning across the disciplines, allowing students to develop a broad set of skills that will prepare them for college and beyond. Students who take one or more IB courses without completing the entire program may earn **course certificates**. IB Higher Level (HL) subjects require intensive, in-depth study over two years. These generally reflect a student's areas of interest and academic strength. IB Standard Level (SL) subjects may be less demanding in terms of content, but still maintain college-level expectations.

Because all courses offer a high degree of rigor and challenge, students should be highly motivated learners who desire to challenge themselves intellectually and academically and be willing to handle the rigor and pace of a demanding academic curriculum. The prospective IB student should demonstrate a willingness to develop analytical and critical thinking skills, along with time and stress management skills. The IB student must be open to new ideas, cultures, tolerant of different beliefs, able to develop and use information effectively and willing to participate in school and community activities. Please note that the IB Program is an inclusive program of study - **any student may enroll in the Diploma Program, or take any of the individual courses for a Course certificate**.

Students interested in pursuing the full Diploma must meet with the IB Diploma Program coordinator to develop their individualized 2-year plan of study.

Please visit the IB section of the NHS website for complete details regarding the IB Program, and to download the current version of the IB Parent and Student Handbook.

Requirements for the full IB Diploma

- IB Diploma Program students must study and examine in six subjects during their junior and senior years. A minimum of 3 subjects must be Higher Level - a minimum of 24 points (total) must be achieved – each exam is scored on a 1-7 scale.
- Satisfactory completion of the Extended Essay (EE)
This is an independent piece of research (guided by an EE mentor) culminating with a 4,000-word paper. Students are to investigate a topic of personal interest to them, which relates to one of the six Diploma Program subjects. Students must start working on the EE in the junior year and complete it during the first semester of the senior year. The EE is practical preparation for undergraduate research.
- Satisfactory completion of CAS (Community, Activity & Service)
The CAS requirement enables students to enhance their personal and interpersonal development through experiential learning. Beginning in their Junior year, students must engage in a range of Creativity, Activity, and Service experiences on a regular basis and in at least one project. Students log and reflect on their experiences using an online platform monitored by the CAS Coordinator.
- Satisfactory completion of the Theory of Knowledge (ToK) course.
This is an internally and externally assessed interdisciplinary component that asks students to reflect on the nature of knowledge, and on how we know what we claim to know.

Northport High School - IB Diploma Course Sequence - Four-Year Plan

IB Subject Area	Grade 9	Grade 10	Grade 11	Grade 12	Level
Group 1 English	English 9	English 10	IB English Literature 11 or IB English Lang & Lit 11 (June Regents)	IB English Literature 12 or IB English Lang & Lit 12	HL
Group 2 Foreign Language	Level 2R	Level 3 R (June Regional Assessment)	Level 4 IB	Level 5 IB/AP	SL or HL
Group 3 Individuals and Societies	Global History I	Global II or AP World History or AP European History (June Regents)	IB History of the Americas 11 (June Regents)	IB History 12	HL
Group 4 Experimental Sciences	Regents or Scientific Investigations Earth Science or Biology (June Regents)	Regents or Scientific Investigations Biology or Chemistry (June Regents)	IB Biology <i>note: alternatively, Regents/Sci. Investigation Physics can be taken during grade 12, and IB Biology can be taken during grade 11</i>	Regents or Scientific Investigation Chemistry or Physics (June Regents)	SL
	Regents or Scientific Investigations Biology (June Regents)	Regents or Scientific Investigations Chemistry (June Regents)	IB Physics 11 (June Regents)	IB Physics 12	HL
Group 5 Mathematics	Algebra (June Regents)	Geometry (June Regents)	Algebra II (June Regents)	IB Math: Applications	SL
	Geometry (June Regents)	Algebra II (June Regents)	IB Math: Analysis SL/AB <i>*Double period during Fall Semester</i>	AP Calculus AB	SL
	Algebra II BC (June Regents)	Pre-Calculus BC	IB Math: Analysis SL/BC	AP Calculus BC	SL
Group 6 The Arts and Electives		AP Music	IB Visual Arts IB Music IB Dance IB Business & Management IB Economics IB Social & Cultural Anthropology IB Philosophy IB Psychology IB Design Technology IB Sports, Exercise & Health Science Second IB Science <i>note: only 1 IB elective must be taken over the course of the program</i>	IB Visual Arts IB Music IB Dance IB Business & Management IB Economics IB Social & Cultural Anthropology IB Philosophy IB Psychology IB Design Technology IB Sports, Exercise & Health Science Second IB Science	SL or HL SL or HL SL SL or HL SL SL SL SL SL SL SL
Core Elements			Theory of Knowledge (Spring Semester)	Theory of Knowledge (Fall Semester)	

IB THEORY OF KNOWLEDGE NCAA Approved

½ Unit 20 weeks- 11th grade-spring (E-9108)

½ Unit 20 weeks -12th grade-fall (E-9106)

Theory of Knowledge (ToK), one of the three core requirements for obtaining the International Baccalaureate Diploma, is central to the philosophy of the IB Program. As a thoughtful and purposeful inquiry into different ways of knowing, and into different kinds of knowledge, ToK requires students to examine questions such as “How do we know?”, “What counts as evidence for X?”, “How do we judge what is the best model for Y?” For example, students will be encouraged to reflect on the nature of poetic truth in literature and to contrast such truth with that obtained in other systems of knowledge-the historical fact, the scientific fact, a mathematical proof and so on. They will also examine the grounds for the moral, political, and aesthetic judgments that individuals must make in their daily lives. Emphasis will be placed on the role of language and thought and on the development of the student’s critical thinking skills. The course will span the two years of the program, and will be taken during the spring semester of the student’s junior year and the fall semester of the student’s senior year.

Prerequisite: This course is only open to IB diploma candidates.

Group 1 – Language A

IB ENGLISH LITERATURE

1 Unit 40 weeks

11th Grade Higher Level (E-116)

12th Grade Higher Level (E-118)

NCAA Approved

The two year IB English Literature course develops understanding of the techniques involved in literary criticism and promotes the ability to form independent literary judgments. In literature, the formal analysis of texts and wide coverage of a variety of literature- both in the language of the subject and in translated texts from other cultural domains-are combined with a study of the way literary conventions shape responses to texts. Students completing this course will have a thorough knowledge of texts that cover a wide range of time periods and literary genres including novels, poems, plays and nonfiction works. They will also have developed skills of analysis and the ability to support an argument in clearly expressed writing. The course addresses all literacy standards outlined in the common core including reading, writing, speaking, and listening for both literary and non-literary texts. Students will appreciate the artistry of literature and develop an ability to reflect critically on their reading with an emphasis on literary style, form, techniques, motifs, diction, and themes. Students will demonstrate their ability to provide literary commentary about prose and poetry, both in written form and orally. The course helps students focus closely on the language of the texts they study and to become aware of the role of each text’s wider context in shaping its meaning. Practically, this means students will develop an appreciation of

the impact of the context (cultural and social) of both writer and reader on textual construction and interpretation.

IB English Literature requires a variety of internal and external written and oral assessments which will begin in the junior year and conclude during the senior year. Students will be required to successfully complete a summer reading/writing assignment which will be posted by July 1 on the department website. IB Exam fees established by the International Baccalaureate Organization are approximately \$130 which are due in early October of the students’ senior year.

Prerequisite: English 10

IB ENGLISH LANGUAGE AND LITERATURE

1 Unit 40 weeks

11th Grade Higher Level (E-123)

12th Grade Higher Level (E-124)

NCAA Approved

The two year IB English Language and Literature course focuses on developing an understanding of the constructed nature of meanings generated by language and the web of relationships they share with the social world. Two parts of the course relate to the study of language and two to the study of literature. A key aim of this course is to encourage students to question the meaning generated by language and texts. The course helps students focus closely on the language of the texts they study and to become aware of the role of each text’s wider context in shaping its meaning. Practically, this means students will develop an appreciation of the impact of the context (cultural and social) of both writer and reader on textual construction and interpretation. The appreciation of literary techniques as used in the various genres of literature forms an important aspect of this study as well. Through oral and written commentary as well as comparative textual analysis, students will develop an understanding of how language, culture and context determine the ways in which meaning is constructed as well as think critically about the different interactions between text, audience and purpose.

IB English Language and Literature requires a variety of internal and external written and oral assessments which will begin in the junior year and conclude during the senior year. Students will be required to successfully complete a summer reading/writing assignment which will be posted by July 1 on the department website. IB Exam fees established by the International Baccalaureate Organization are approximately \$130 which are due in early October of the students’ senior year.

Prerequisite: English 10

Group 2 – Language B

The Language Acquisition curriculum is a two-year course of study at the completion of which the student will be prepared for the IB Language B Standard or Higher Level assessments. It is organized into five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet.

IB FRENCH 4

1 Unit 40 weeks (4011)

11th Grade

NCAA Approved

IB French 4 is the first course in a two-year program of advanced French studies. The course's goals are to increase the student's ability to understand, read, speak, and write using the French language with grammatical accuracy and at appropriate and varied registers, as well as develop an understanding of the cultures of the countries where French is spoken. Students will become acquainted with world literature, arts and sciences, social trends and world problems. The course of study will provide opportunity for enjoyment, creativity and intellectual stimulation. Through this study students will broaden their horizons and become proficient language speakers and educated citizens of the global community. Upon successful completion of this course, students can enter IB/AP French 5.

Prerequisites: French 3R

IB/AP FRENCH 5 Standard or Higher Level

1 Unit 40 weeks (4013)

12th Grade

NCAA Approved

IB/AP French 5 is the second course in a two-year program of advanced French studies. The curriculum of this course will prepare students for the French IB Language B assessments and/or the AP exam in French Language. Students should have a good command of structural patterns and considerable competence in listening, speaking, reading and writing in French. Please see the course description for IB French 4. Students will choose between the Standard and Higher Level in the fall, after conferencing with their instructor. This course requires students to take the IB and/or AP assessment in May. The fees are established by the International Baccalaureate Organization and the College Board. Payment for the IB examination is due in early October of the exam year, and is approximately \$130. The AP exam fee is approximately \$95.

Prerequisite: IB French 4

IB ITALIAN 4

1 Unit 40 weeks (4309)

11th Grade

NCAA Approved

IB Italian 4 is the first course in a two-year program of advanced Italian studies. The course's goals are to increase the students' ability to understand, read, speak, and write the Italian language with grammatical accuracy and at appropriate

and varied registers, as well as develop an understanding of the cultures of the countries where Italian is spoken. Students will become acquainted with world literature, arts and sciences, social trends and world problems. The course of study will provide opportunity for enjoyment, creativity and intellectual stimulation. Through this study students will broaden their horizons and become proficient language speakers and educated citizens of the global community. Upon successful completion of this course, students can enter IB/AP Italian 5.

Prerequisites: Italian 3R

IB/AP ITALIAN 5 Standard or Higher Level

1 Unit 40 weeks (4334)

12th Grade

NCAA Approved

IB/AP Italian 5 is the second course in a two-year program of advanced Italian studies. The curriculum of this course will prepare students for the Italian IB Language B assessments and/or AP Exam. Students should have a good command of structural patterns and considerable competence in listening, speaking, reading and writing in Italian. Please see the course description for IB Italian 4. Students will choose between the Standard and Higher Level in the fall, after conferencing with their instructor. This course requires students to take the IB assessment and/or the AP Exam in May. The fees are established by the International Baccalaureate Organization. Payment for the IB examination is due in early October of the exam year, and is approximately \$130. The AP exam fee is approximately \$95.

Prerequisite: IB Italian 4

IB SPANISH 4

1 Unit 40 weeks (4211)

11th Grade

NCAA Approved

IB Spanish 4 is the first course in a two-year program of advanced Spanish studies. The course's goals will be to increase the student's ability to understand, read, speak, and write the Spanish language with grammatical accuracy and at appropriate and varied registers, as well as develop an understanding of the cultures of the countries where Spanish is spoken. Students will become acquainted with world literature, arts and sciences, social trends and world problems. The course of study will provide opportunity for enjoyment, creativity and intellectual stimulation. Through this study students will broaden their horizons and become proficient language speakers and educated citizens of the global community. Upon successful completion of this course, students will enter either IB/AP Spanish 5.

Prerequisites: Spanish 3R

IB SPANISH 5 Standard or Higher Level

1 Unit 40 weeks (4214)

12th Grade

NCAA Approved

IB/AP Spanish 5 is the second course in a two-year program of advanced Spanish studies. The curriculum of this course will prepare students for the Spanish IB Language B assessments. Students should have a good command of structural patterns and considerable competence in listening, speaking, reading and writing in the Spanish Language. Please see the course description for IB Spanish 4. Students will choose between the Standard and Higher Level in the fall, after conferencing with their instructor. This course requires students to take the IB assessment and/or AP Exam in May. The fee is established by the International Baccalaureate Organization and the College Board. Payment for the IB examination is due in early October of the exam year, and is approximately \$130. The AP exam fee is approximately \$95.

Prerequisite: IB Spanish 4

Group 3 – Individuals and Societies

IB HISTORY OF THE AMERICAS

11th Grade Higher Level

1 Unit 40 weeks (1114)

NCAA Approved

IB History of the Americas 11 is the first course in a two-year program of advanced history studies. It combines a study of the history of the United States (which will prepare students for the NYS Regents exam) with a specific focus on key topics in Canadian and Latin American History. Major emphasis will be placed on extensive reading, writing and use of primary sources. All students who select this course will be expected to complete a summer assignment.

Prerequisite: Global History II or AP World or AP European History. In addition, students must take the U.S. History Regents exam.

IB HISTORY OF THE AMERICAS

12th Grade Higher Level

1 Unit 40 weeks (1276)

NCAA Approved

History of the Americas is the second course in a two-year program of advanced history studies. Year two requires extensive research and study of three 20th century topics. Each of the topics will be considered through a selection of case studies. Political, social, economic, cultural, and gender issues will be integrated into each topic. Students will be expected to evaluate, interpret, and make use of source materials as historical evidence. All students who select this course will be expected to complete a summer assignment. This course requires a variety of IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisite: IB History of the Americas 11

IB PHILOSOPHY - 1 Unit 40 Weeks

11th or 12th Grade Standard Level (E-119) NCAA Approved

The IB Philosophy Course is designed to enable and encourage students to deal with issues that are profound, complex, challenging and important for humanity. The class will explore fundamental questions concerning things such as the nature of existence, and it will also confront contemporary problems arising in society today, including those that result from increasing international interaction. The emphasis of this course is on “doing” philosophy. Students will need to become aware of their own biases and to engage in critical and systematic thinking as well as careful analysis of arguments, the study of philosophical themes and a close reading of various texts. This course requires a variety of external and internal IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

IB ECONOMICS

11th or 12th Grade Standard Level

1 Unit 40 weeks (5813)

NCAA Approved

This is a full-year IB course in the study of Economics. Economics plays a vital role in society. Understanding economic theories, ideas, and differing points of view is critical to understanding the influences on market behavior. Students will study Microeconomics, Macroeconomics, International Economics and Development Economics. Emphasis will be placed on the interconnection of the world economy. As part of their IB assessment, students will connect textbook material with current events and draw conclusions based on their knowledge. This course requires a variety of IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

IB SOCIAL AND CULTURAL ANTHROPOLOGY

11th or 12th Grade Standard Level

1 Unit 40 Weeks (w-1120)

NCAA Approved

In Social & Cultural Anthropology (“SCA”) students will come to appreciate how anthropology as a discipline contributes to an understanding of contemporary issues, such as war and conflict, the environment, poverty, injustice, inequality and human and cultural rights. The study of social and cultural anthropology offers critical insight into the continuities as well as dynamics of social change and the development of societies, and challenges cultural assumptions. Areas of anthropological inquiry in this course are: belonging; classifying the world; communication, expression and technology; conflict; development; health, illness and healing; movement, time and space; production, exchange and consumption; and the body. These areas are explored through the key anthropological concepts of belief and knowledge, change, culture, identity, materiality, power, social relations, society, and symbolism. This course requires a variety of IB

assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

IB BUSINESS AND MANAGEMENT- 1 Unit 40 weeks

11th or 12th Grade Standard Level (5802)

11th Grade Higher Level (5804)

12th Grade Higher Level (5806)

IB Business Management is designed to provide students with a foundation in management principles, practices, and skills and to develop an awareness of the ethical and social responsibility issues that exist in business and other organizations both domestically and internationally. Emphasis is also placed on understanding the business functions of marketing, human resource management, and finance. Students will evaluate concepts that affect our multicultural business world. This course requires a variety of IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year. This course is available for three college credits through SUNY Farmingdale (BUS 111) Tuition is approximately \$150.

IB PSYCHOLOGY

11th or 12th Grade Standard Level

1 Unit 40 Weeks (1115) NCAA Approved

The IB Psychology course is a systematic study of behavior and mental processes. The course examines the interaction of biological, cognitive and sociocultural influences on human behavior. Students study and critically evaluate the knowledge, concepts, theories and research that have developed the understanding in these fields. The contribution and the interaction of the three approaches is understood through the four options in the course, focusing on areas of applied psychology: abnormal psychology, developmental psychology, health psychology, and the psychology of relationships. Students undertaking the course can expect to develop an understanding of how psychological knowledge is generated, developed and applied. This will allow them to develop a greater understanding of themselves and appreciate the diversity of human behavior. Students are expected to apply knowledge learned in the classroom and to specific lines of inquiry by conducting their own experimental study. This course requires a variety of external and internal IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Group 4 – Experimental Sciences

IB/AP BIOLOGY

11th or 12th Grade Standard Level

1 Unit 40 weeks (2021) NCAA Approved

IB Biology at the Standard Level (SL) is an introductory college-level study of the unity and diversity of living organisms on the molecular, cellular, organic and ecological levels. The course focuses upon genetics, evolution, the interrelationships between organisms and environments, human reproduction and physiology, cell respiration, immune systems, neurobiology, and the relevance of biological principles to human beings. This course prepares students for a number of required IB assessments including the Group 4 Project and the Individual Investigation. **Students may elect to challenge both the IB Biology SL and AP Biology exams. Depending on enrollment, this course may be co-seated with AP Biology.** The assessment fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisites: Living Environment R or SI, Chemistry R or SI and recommendation of science and guidance faculty.

IB/AP CHEMISTRY

11th or 12th Grade Standard Level

1 Unit 40 weeks (2113) NCAA Approved

As a college-level introductory chemistry course, students in IB Chemistry at the Standard Level (SL) attain a depth of understanding of fundamentals and a competence in dealing with chemical problems that will enable them to undertake further work in chemistry or related fields. This course prepares students for a number of required IB assessments including the Group 4 Project and the Individual Investigation. **Students may elect to challenge both the IB Chemistry SL and AP Chemistry exams. Depending on enrollment, this course may be co-seated with AP Chemistry.** The assessment fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisites: Algebra I, Living Environment R or SI, Chemistry R or SI, and recommendation of science and guidance faculty.

IB PHYSICS

11th Grade Higher Level

1 Unit 40 weeks (2222) NCAA Approved

The curriculum of this course parallels the Physics Scientific Investigations course. It is designed for students who wish to take a two year sequence in IB Physics leading to the higher level IB assessment. Labs will be evaluated according to the IB assessment standards and students will be required to complete the Group 4 Project. The final examination in the course is the Regents Examination in Physics.

To qualify for the Regents examination, a specific number of laboratory activities are required to be completed and satisfactory lab reports must be on file.

*Prerequisites: Algebra II (may be concurrent),
Living Environment Regents or SI,
Earth Science Regents, and Chemistry Regents or SI*

IB PHYSICS

12th Grade Higher Level

1 Unit 40 weeks (2215) NCAA Approved

IB Physics is the second year of a two-year sequence that will cover the main principles of physics in depth and will stress problem-solving as well as laboratory skills. It is designed to meet the needs and interests of those students wishing to further their study of physics. This course requires completion of a variety of IB assessments, the fee for which is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisite: IB Physics 11th Grade Higher Level and Pre-Calculus or higher (may be concurrent).

IB SPORTS, EXERCISE and HEALTH SCIENCE

11th or 12th Grade Standard Level

1 Unit 40 Weeks (9008)

Scientific inquiry conducted over many decades has accumulated a vast amount of information across a range of disciplines that contribute to our understanding of health and human performance in relation to sport and exercise. In a world where many millions of people are physically inactive and afflicted by chronic disease and ill health, the sport and exercise scientist should be equally proficient when prescribing exercise for the promotion of health and well-being.

The IB course in Sports, Exercise and Health Science involves the study of the science that underpins physical performance. The course incorporates the traditional disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health. Students will cover a range of core and optional topics and carry out practical (experimental) investigations in both laboratory and field settings. This will provide an opportunity to acquire the knowledge and understanding necessary to apply scientific principles and critically analyze human performance. Where relevant, the course will address issues of international dimension and ethics by considering sport, exercise and health relative to the individual and in a global context.

This course requires a variety of external and internal IB assessments and is open to juniors and seniors only. The fee is established by the International Baccalaureate Organization

and is approximately \$130. Payment is due in early October of the exam year.

*Prerequisites: Intro to Athletic Training/Sports Medicine I
Sports Medicine II (9006) is not required, but it is recommended

Group 5 – Mathematics

IB MATH: ANALYSIS & APPROACHES SL/AB

1 Unit 40 weeks (3556) NCAA Approved

(Includes ½ year lab section every day in the Fall)

OPT: 3-7 semester hours/St. John's University

This is an IB Mathematics course at the Standard Level which will provide students with a comprehensive and sound mathematical background in preparation for the future study of AP Calculus AB in grade 12. Analysis & Approaches recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (ex, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture, and proof (ex, the study of sequences and series and proof by induction).

Analysis & Approaches places a strong emphasis on the ability to construct, communicate, and justify correct mathematical arguments. Students are required to submit a research-based exploration project and to sit for two IB assessment papers in the spring. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Students that apply and are accepted to St. John's University's College Advantage Program will be granted college credit upon successful completion of the course and payment of all required fees (3 credits first semester; 4 credits second semester). Eligibility requirements apply (minimum SAT combined reading/math score of 1000). Tuition cost is approximately \$325 per semester for those students registering for college credits (no financial assistance available). Transfer credit practices vary from college to college and therefore cannot be guaranteed in advance.

Course meets 10 periods per week in the fall and 5 periods per week in the spring.

Prerequisite: Completion of Algebra II at a mastery performance level

IB MATH: ANALYSIS & APPROACHES SL/BC

1 Unit 40 weeks (3545) NCAA Approved

OPT: 3-6 semester hours/St. John's University

This is an IB Mathematics course at the Standard Level which will provide students with a comprehensive and sound mathematical background in preparation for the future study of AP Calculus BC in grade 12.

Analysis & Approaches recognizes the need for analytical expertise in a world where innovation is increasingly

dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (ex, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture, and proof (ex, the study of sequences and series and proof by induction). Analysis & Approaches places a strong emphasis on the ability to construct, communicate, and justify correct mathematical arguments. Students are required to submit a research-based exploration project which may be submitted for entry in the Long Island Math Fair. Additionally, students are required to sit for two IB assessment papers in the spring. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Students that apply and are accepted to St. John's University's College Advantage Program will be granted college credit upon successful completion of the course and payment of all required fees (3 credits first semester; 4 credits second semester). Eligibility requirements apply (minimum SAT combined reading/math score of 1000). Tuition cost is approximately \$325 per semester for those students registering for college credits (no financial assistance available). Transfer credit practices vary from college to college and therefore cannot be guaranteed in advance.

Course meets 5 periods per week.

Prerequisite: Successful completion of Pre-Calculus BC

IB MATH: APPLICATIONS & INTERPRETATION SL

11th or 12th Grade Standard Level

1 Unit 40 weeks (3028) NCAA Approved

Applications & Interpretation emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modeling. To give this understanding a firm base, this course also includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. The course makes extensive use of technology to allow students to explore and construct mathematical models. Applications & Interpretation will develop mathematical thinking, often in the context of a practical problem and using technology to justify conjectures. Students are required to submit a research-based exploration project and to sit for two IB assessment papers in the spring. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisite: Completion of Algebra II

Group 6 – Electives

IB VISUAL ARTS - 1 Unit 40 weeks

11th or 12th Grade Standard Level (6225)

11th Grade Higher Level (6226)

12th Grade Higher Level (6228)

The IB Visual Arts course is designed to ensure that students will develop an intensely personal view of the world of art through an artistic journey. Aesthetic, imaginative, and creative skills will be developed through the study of art history and the skills necessary to formulate visual statements. An investigation workbook will be maintained to demonstrate knowledge, progress and visual experimentation. Regular research and studio work will provide the link between student's personal research and the interrelationship with studio work. Visual Arts is designed around cultural ethnicity and the artistic needs of the students. The curriculum of this course will prepare students for the IB Art Examinations. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year. Students may be expected to provide some of their own materials.

IB MUSIC - 1 Unit 40 weeks

11th or 12th Grade Standard Level (6512)

11th Grade Higher Level (6513)

12th Grade Higher Level (6515)

The IB Music course of study is designed to promote a greater awareness and understanding of music through variety of musical experiences. Students will be exposed to a broad spectrum of music ranging from that of Western traditions to world regions and cultures. Components of this course include theoretical study, development of listening and aural skills, score analysis, individual student composition and performance. This course requires a variety of IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisite: AP Music or permission of instructor.

IB DANCE - ½ Unit 40 weeks

11th Grade Standard Level (9066)

12th Grade Standard Level (9069)

Dance is a unique medium for learning about self and the world. It is one essential component of artistic, aesthetic and cultural education, and develops creative potential through physical expression. The IB Dance curriculum aims for a holistic approach to dance, and embraces a variety of traditions and dance cultures. Performance, creative and analytic skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum encourages students to think about dance through an arts and humanities lens. This orientation facilitates the development of students who may become choreographers, dance scholars and/or performers. The course also welcomes those students who seek life enrichment through dance.

The course is constructed so that all students are given opportunities to study a variety of world dance traditions through exposure to physical practice and observation as well

as written investigation. Examining dance from both familiar and unfamiliar cultures and/or traditions develops comparative thinking skills and deepens understanding of one's own culture(s) as well as those of others.

This standard level course requires a variety of IB internal and external assessments over two years of study and will meet every other day. This course meets the physical education requirement for 11th and 12th grade students and cannot be taken honors/pass/fail. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisite: Introduction to Dance or permission of instructor.

Mathematics Department

Robin Rann
District Chairperson of Mathematics
631-262-6690

[Click Here to View the Mathematics Course Selection Guide](#)

The Mathematics Department offers a variety of required and elective math and computer programming courses. While successful completion of only three years of mathematics is required for a Regents Diploma, college bound students are strongly encouraged to engage in the study of mathematics throughout all four years of high school. Most fields of study in college require students to take core mathematics courses. Seniors who continue to study mathematics will have a smoother transition to the pace and rigor of college level mathematics courses. As students engage in the study of mathematics, they will develop a deeper understanding through the Standards for Mathematical Practice. Mathematically proficient students:

- Persevere in problem solving.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning

ALGEBRA I

1 Unit 40 weeks (3041)

NCAA Approved

Students will study the Algebra I curriculum outlined by the NYS Learning Standards. The Learning Standards for Algebra I focus on : (1) the Real number system; (2) seeing structure in expressions; (3) arithmetic with polynomials and rational expressions; (4) creating equations; (5) reasoning with equations and inequalities; (6) interpreting functions; (7) building functions; (8) linear, quadratic, and exponential models; and (9) interpreting categorical and quantitative data. Students will be administered the Algebra I Regents Exam in June. Passing the Regents exam satisfies the minimal exam requirement for a New York State Regents Diploma. Course meets 5 periods per week.

Prerequisite: Successful completion of Math 8

ALGEBRA II

1 Unit 40 weeks (3232)

NCAA Approved

Students will study the Algebra I curriculum outlined by the NYS Learning Standards. The Learning Standards for Algebra I focus on : (1) the Real number system; (2) seeing structure in expressions; (3) arithmetic with polynomials and rational expressions; (4) creating equations; (5) reasoning with equations and inequalities; (6) interpreting functions; (7) building functions; (8) linear, quadratic, and exponential models; and (9) interpreting categorical and quantitative data. Students will be administered the Algebra I Regents Exam in June. Passing the Regents Exam satisfies the minimal exam

requirement for a New York State Regents Diploma. Course meets 7.5 periods per week (1 period daily with an additional period on alternating days).

Prerequisite: Students will be scheduled for this course based upon the results of prior assessments, progress in previous courses, and/or teacher recommendation.

GEOMETRIC APPLICATIONS

1 Unit 40 weeks (3047)

This course provides students the opportunity to explore geometric concepts within the New York State Regents geometry curriculum. Particular emphasis is placed on constructing mathematically valid geometric arguments. Topics include the study of definition, postulate, theorem, and logic; congruence, similarity, right triangle trigonometry, circles, geometric measurement; transformations. Students will have the opportunity to take the Geometry Regents exam in June. A student must pass the Algebra I, Geometry, and Algebra II Regents exams to satisfy the math testing requirements for acquiring a NYS Regents Diploma with Advanced Designation. Course meets 5 periods per week.

Prerequisite: Successful completion of Algebra II and teacher recommendation

GEOMETRY

1 Unit 40 weeks (3010)

NCAA Approved

Students will study the Geometry curriculum outlined by the NYS Learning Standards. The Learning Standards for Geometry focus on : (1) congruence; (2) similarity, right triangles, and trigonometry; (3) circles; (4) geometric measurement and dimension; (5) geometric properties with equations; and (6) modeling with geometry. Students will be administered the Geometry Regents Exam in June. Passing the Regents Exam satisfies the second of three exam requirements for a New York State Regents Diploma with Advanced Designation. Course meets 5 periods per week.

Prerequisite: Successful completion of Algebra I

GEOMETRY I

1 Unit 40 weeks - (3011)

NCAA Approved

Students will study the Geometry curriculum outlined by the NYS Learning Standards. The Learning Standards for Geometry focus on : (1) congruence; (2) similarity, right triangles, and trigonometry; (3) circles; (4) geometric measurement and dimension; (5) geometric properties with equations; and (6) modeling with geometry. Students will be administered the Geometry Regents Exam in June. Passing the Regents Exam satisfies the second of three exam requirements for a New York State Regents Diploma with Advanced Designation. Course meets 7.5 periods per week (1 period daily with an additional period on alternating days.)

Students will be scheduled for this course based upon the results of prior assessments, progress in pre-requisite courses (Algebra I/IL), and/or teacher recommendations.

ALGEBRA II Y1

1 Unit 40 weeks (3048)

NCAA Approved .5 credit

Students in this course begin their study of the Algebra II curriculum (see 3053 course description below) and are expected to continue the course by enrolling in Algebra II Y2 (two periods per day) the following year. This two-year study of Algebra II affords students the opportunity to engage in a rigorous, college preparatory curriculum without as demanding a pace as that found in Algebra II (3053). Course meets 5 periods per week.

NOTE: Completion of this course does NOT satisfy the condition for any course that requires “completion of Algebra II” as a prerequisite. Students must complete the full two-year year sequence (Algebra II Y1 AND Algebra II Y2) to continue post-Algebra II studies.

Prerequisite: Successful completion of Algebra I/IL and Geometry/Topics of Geometry

ALGEBRA II

1 Unit 40 weeks (3053)

NCAA Approved

Students will be administered the Algebra II Regents Exam in June. Passing the Algebra I, Geometry, and Algebra II Regents Exams satisfies the exam requirements for a New York State Regents Diploma with Advanced Designation. Course meets 5 periods per week.

Prerequisite: Successful completion of Algebra I and Geometry

ALGEBRA II L

1 Unit 40 weeks (3052)

NCAA Approved

Students will study the Algebra II curriculum outlined by the NYS Learning Standards. The Learning Standards for Algebra I focus on : (1) the Real number and complex number systems; (2) seeing structure in expressions; (3) arithmetic with polynomials and rational expressions; (4) creating equations; (5) reasoning with equations and inequalities; (6) interpreting functions; (7) building functions; (8) linear, quadratic, and exponential models; (9) trigonometric functions; (10) interpreting categorical and quantitative data; (11) making inferences and justifying conclusions; and (12) conditional probability and the rules of probability. Students will be administered the Algebra II Regents Exam in June. Passing the Algebra I, Geometry, and Algebra II Regents Exams satisfies the exam requirements for a New York State Regents Diploma with Advanced Designation.

Course meets 7.5 periods per week (1 period daily with an additional period on alternating days.)

Students will be scheduled for this course based upon the results of prior assessments, progress in pre-requisite courses (Algebra I, Geometry), and/or teacher recommendations.

ALGEBRA II Y2/Finite Math

½ Unit 20 weeks (3055)

½ Unit 20 weeks (3060)

NCAA Approved

Semester 1: Students will be enrolled in Algebra II Y2 to complete their study of the Algebra II curriculum that began with enrollment in Algebra II Y1 the previous year. Students will be administered the Algebra II Regents exam for the first time in January and will have a second opportunity if needed in June. A student must pass the Algebra I, Geometry, and Algebra II Regents exams to satisfy the math testing requirements for acquiring a NYS Regents Diploma with Advanced Designation. Course meets ten periods per week (2 periods daily).

Prerequisite: Successful completion of Algebra II Y1

Semester 2: Students will be enrolled in Finite Math to engage in an introductory study of mathematical analysis techniques used in college courses and in the real world. This course gives students valuable experience organizing and analyzing information while also maintaining skills necessary for college placement exams. Topics may include but are not limited to: elementary matrix algebra, linear programming, logic, beginner coding, the mathematics of finance, introductory probability, statistics, and combinatorics. Mathematical modeling (using math to describe a real world situation) is applied throughout the course. Course meets five periods per week (1 period daily).

Students will receive .5 credit for successful completion of Algebra II Y2 and .5 credit for successful completion of Finite Math.

ALGEBRA II BC

1 Unit 40 weeks (3540)

NCAA Approved

Students will study the Algebra II curriculum outlined by the NYS Learning Standards. The Learning Standards for Algebra I focus on : (1) the Real number and complex number systems; (2) seeing structure in expressions; (3) arithmetic with polynomials and rational expressions; (4) creating equations; (5) reasoning with equations and inequalities; (6) interpreting functions; (7) building functions; (8) linear, quadratic, and exponential models; (8) trigonometric functions; (9) interpreting categorical and quantitative data; (10) making inferences and justifying conclusions; and (11) conditional probability and the rules of probability. Students will be administered the Algebra II Regents Exam in June. Passing the Algebra I, Geometry, and Algebra II Regents Exams satisfies the exam requirements for a New York State Regents Diploma with Advanced Designation. Course meets 5 periods per week.

This is an advanced course, with greater emphasis placed on derivation, problem-solving and real-world applications.

Prerequisite: Successful completion of Geometry BC and Algebra I BC

COLLEGE PREP ADVANCED ALGEBRA

1 Unit 40 weeks (3338)

NCAA Approved

This course is intended for the college-bound senior whose intended path of study will not require extensive coursework in college-level mathematics. Emphasis will be placed on advanced topics of algebra, analytic geometry, and trigonometry through functional analysis. Topics from discrete mathematics will also be included in this course. After successful completion of the course, students will be well prepared for college math placement exams. Course meets 5 periods per week.

Prerequisite: Completion of Algebra II

IB MATH: APPLICATIONS & INTERPRETATION SL

11th or 12th Grade Standard Level

1 Unit 40 weeks (3028)

(Includes alternating day lab section) NCAA Approved

OR

COLLEGE STATISTICS & PRE-CALCULUS

1 Unit 40 weeks (3535)

NCAA Approved

OPT: 3-6 semester hours/St. John's University

This course emphasizes mathematics in context by focusing on topics that are often used as applications or in mathematical modeling. To give this understanding a firm base, this course also includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. The course makes extensive use of technology to allow students to explore and construct mathematical models. This course will develop mathematical thinking, often in the

context of a practical problem and using technology to justify conjectures.

Prerequisite: Completion of Algebra II

Students enrolled in IB Applications & Interpretation are co-seated with students enrolled in **College Statistics & Pre-Calculus**.

IB Applications & Interpretation students meet one period daily plus one additional period on alternate days. Course name on the transcript will be IB Applications & Interpretation. IB Applications & Interpretation culminates in a required research-based exploration project, as well as the IB Math Exam administered in May. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

College Statistics & Pre-Calculus students meet one period daily. Course name on the transcript will be College Pre-Calculus.

Interested students may apply to St. John's University College Advantage Program; those that are accepted will be granted college credit upon successful completion of the course and payment of all required fees. Tuition cost is approximately \$325 per semester for those students registering for 3 college credits in the fall and/or 3 college credits in the spring (no financial assistance available). Transfer credit practices vary from college to college and therefore cannot be guaranteed in advance.

PRE-CALCULUS AB

1 Unit 40 weeks (3550)

NCAA Approved

OPT: 3-6 semester hours/St. John's University

This course prepares students for the subsequent study of AP Calculus AB in grade 12. Topics include, but are not limited to, functions and graphs, matrices, conic sections, sets of linear equations, exponential and logarithmic functions, trigonometry, vectors, complex numbers, limits and continuity, differentiation of algebraic and transcendental functions, and antiderivatives. Students that apply and are accepted to St. John's University's College Advantage Program will be granted college credit upon successful completion of the course and payment of all required fees (3 credits first semester; 3 credits second semester). Eligibility requirements apply (minimum SAT combined reading/math score of 1000). Tuition cost is approximately \$325 per semester for those students registering for college credits (no financial assistance available). Transfer credit practices vary from college to college and therefore cannot be guaranteed in advance. Course meets 5 periods per week.

Prerequisite: Completion of Algebra II at a mastery performance level

IB MATH: ANALYSIS & APPROACHES SL/AB

1 Unit 40 weeks (3556)

NCAA Approved

(Includes ½ year lab section every day in the Fall)

OPT: 3-6 semester hours/St. John's University

This is an IB Mathematics course at the Standard Level which will provide students with a comprehensive and sound mathematical background in preparation for the future study of AP Calculus AB in grade 12. Analysis & Approaches recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (ex, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture, and proof (ex, the study of sequences and series and proof by induction).

Analysis & Approaches places a strong emphasis on the ability to construct, communicate, and justify correct mathematical arguments. Students are required to submit a research-based exploration project and to sit for two IB assessment papers in the spring. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Students that apply and are accepted to St. John's University's College Advantage Program will be granted college credit upon successful completion of the course and payment of all required fees (3 credits first semester; 4 credits second semester). Eligibility requirements apply (minimum SAT combined reading/math score of 1000). Tuition cost is approximately \$325 per semester for those students registering for college credits (no financial assistance available). Transfer credit practices vary from college to college and therefore cannot be guaranteed in advance.

Course meets 10 periods per week in the fall and 5 periods per week in the spring.

Prerequisite: Completion of Algebra II at a mastery performance level

PRE-CALCULUS BC

1 Unit 40 weeks (3542)

NCAA Approved

This is a pre-IB course in advanced analysis for students who will take IB Math SL/BC in grade 11 and AP Calculus BC in grade 12. Topics include matrices, trigonometric applications and analysis, vectors, complex numbers, exponents and logarithms, sequences and series, probability and statistics, and conic sections. Students may begin work on a mathematical research investigation which will be completed during 11th grade. Course meets 5 periods per week.

Prerequisite: Successful completion of Algebra II BC

IB MATH: ANALYSIS & APPROACHES SL/BC

1 Unit 40 weeks (3545)

NCAA Approved

OPT: 3-6 semester hours/St. John's University

This is an IB Mathematics course at the Standard Level which will provide students with a comprehensive and sound mathematical background in preparation for the future study of AP Calculus BC in grade 12.

Analysis & Approaches recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (ex, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture, and proof (ex, the study of sequences and series and proof by induction). Analysis & Approaches places a strong emphasis on the ability to construct, communicate, and justify correct mathematical arguments. Students are required to submit a research-based exploration project which may be submitted for entry in the Long Island Math Fair. Additionally, students are required to sit for two IB assessment papers in the spring. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Students that apply and are accepted to St. John's University's College Advantage Program will be granted college credit upon successful completion of the course and payment of all required fees (3 credits first semester; 4 credits second semester). Eligibility requirements apply (minimum SAT combined reading/math score of 1000). Tuition cost is approximately \$325 per semester for those students registering for college credits (no financial assistance available). Transfer credit practices vary from college to college and therefore cannot be guaranteed in advance.

Course meets 5 periods per week.

Prerequisite: Successful completion of Pre-Calculus BC

COLLEGE TRIGONOMETRY & CALCULUS

1 Unit 40 weeks - (3530)

NCAA Approved

OPT: 3-6 semester hours/St. John's University

College Trigonometry & Calculus focuses on a college preparatory study of functions and graphs, sets of linear equations, exponential and logarithmic functions, trigonometry, limits, differentiation of algebraic and transcendental functions, and antiderivatives. Students that apply and are accepted to St. John's University's College Advantage Program will be granted college credit upon successful completion of the course and payment of all required fees (3 credits first semester; 4 credits second semester). Eligibility requirements apply (minimum SAT combined reading/math score of 1000). Tuition cost is approximately \$325 per semester for those students registering for college credits (no financial assistance available). Transfer credit practices vary from college to college and therefore cannot be guaranteed in advance. Course meets 5 periods per week.

Prerequisite: Successful completion of Algebra II

ADVANCED PLACEMENT

CALCULUS AB/BC

The Advanced Placement (AP) exam in Calculus is offered on two levels, BC and AB. This designation corresponds to the two classes offered in the catalog. The BC level is more theoretical, covers more course content than AB, and corresponds to three semesters of college calculus. The AB level focuses on applications and is similar to a two-semester college program. Depending upon the score on the AP Test, colleges will award up to 8 credits for the BC Course and up to 4 credits for the AB course.

AP CALCULUS AB

1 Unit 40 weeks (3614)

NCAA Approved

The material continues from Pre-Calculus AB with the derivative of polynomial, exponential and trigonometric functions and the application to max/min problems. Techniques of integration are introduced together with applications to acceleration and velocity and the area under a curve. All students are required to take the AP Exam in May at a cost of approximately \$95.00 plus College Board Administrative Fee. Course meets 5 periods per week.

Prerequisite: Successful completion of Pre-Calculus AB or IB Math SL/AB

AP CALCULUS BC

1 Unit 40 weeks (3616)

NCAA Approved

Calculus BC covers all the work of the AB program plus additional topics prescribed for the AP exam by the College Board. These include sequences and series, differential equations and several theorems related to these topics. The BC program is considered to be more theoretical than the AB level. All students are required to take the AP Exam in May at a cost of approximately \$95.00 plus College Board Administrative Fee.

Course meets 5 periods per week.

Prerequisite: Successful completion of IB Math SL/BC

TOPICS IN MULTIVARIABLE CALCULUS

.5 Unit 20 weeks (3620)

NCAA Approved

This is an elective mathematics course offered second semester only, to be taken concurrently with AP Calculus BC. Students enrolled in this course will explore topics in multivariable calculus. As such, the course is designed for students who are planning post-secondary studies in STEM-related fields (e.g., mathematics, engineering, physical sciences, economics, etc.). Topics may include partial differentiation, multiple integration, vector calculus, and differential equations.

Course meets 5 periods per week.

Co-requisite: AP Calculus BC

ADVANCED PLACEMENT STATISTICS

1 Unit 40 weeks (3617)

NCAA Approved

The purpose of the course is to introduce students to the major concepts and procedures for collecting, analyzing and drawing conclusions from data. Students who successfully complete the course and the AP exam may qualify for credit for a one-semester introductory college statistics course. Students will work with a graphing calculator to understand the basic principles of data analysis. 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. All students are required to take the AP Exam in May at a cost of approximately \$95.00 plus College Board Administrative Fee. Course meets 5 periods per week.

CAREER & FINANCIAL ALGEBRA

1 Unit 40 weeks (3049)

This course is designed to strengthen students' algebra skills as they solve financial problems that occur in everyday life. Topics include investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting, and planning for retirement. Students will participate in field projects, build computer spreadsheets, and solve real world problems. As students reinforce algebra skills and gain exposure to other mathematical topics (geometry, probability and statistics, etc.), they will improve their likelihood of successfully completing a college level placement exam. Course meets 5 periods per week.

Prerequisite: Successful completion of two years of mathematics (usually Algebra and Topics), plus teacher recommendation and permission of department chair.

SAT PREP MATH/VERBAL

½ Unit 20 weeks (Fall/Spring - 494)

This course will prepare students for taking the PSAT/SAT and ACT. The course will be divided into two segments and taught by two teachers – English and Math, in ten-week segments. This course is recommended for sophomores and juniors, and does not replace the required Math or English course.

AP COMPUTER SCIENCE PRINCIPLES

1 Unit 40 weeks (3700)

NCAA Approved

AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing

innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

This course also lays a strong foundation for Advanced Placement Computer Science. All students are required to take the AP Exam in May at a cost of approximately \$95.00 plus College Board Administrative Fee.

Students do not need to be enrolled in AOIT to take this course, although the course satisfies one credit of the AOIT program.

AP COMPUTER SCIENCE A

1 Unit 40 weeks (3710)

NCAA Approved

The Advanced Placement (AP) course in Computer Science will cover topics which would normally be found in a college-level program for computer science majors or for students who will major in other disciplines that require involvement with computers. The current programming language is JAVA, an object-orientated programming language. The skills learned in Introduction to Computer Programming (AP Computer Science Principles) are reviewed and refined in this course. Topics taught include programming methodology, features of programming languages, data types and structures, algorithms, applications, iteration, recursion and some of the social implications of computer science. A practical context for the course is given through the use of College Board prescribed lab assignments. All students are required to take the AP Exam in May at a cost of approximately \$95.00 plus College Board Administrative Fee. Students do not need to be enrolled in AOIT to take this course, although the course satisfies one credit of the AOIT program.

Prerequisite: AP Computer Science Principles

ENL PRE-ALGEBRA

1 Unit 40 weeks - (3554)

This course, intended to strengthen the mathematical foundation for newcomer ELLs and SIFE students, builds upon the essential skills of arithmetic as they apply to the future study of Algebra. Coursework primarily focuses on real numbers, linear equations, linear inequalities, factoring, fractions, graphing, and some elements of geometry. Course meets 5 periods per week. Students will take a local final exam at the end of the first year. Students must receive approval from the ENL Chairperson before they can register for this course.

ENL ALGEBRA 1A

1 Unit 40 weeks - (3555)

This course, the first in a series of two designed specifically for newcomer ELLs and SIFE students, builds upon their knowledge of arithmetic as it applies to the study of Algebra. Over the course of two years, students will engage in a study of polynomial and rational expressions, equations and inequalities, and functions. Additionally, students will

construct and compare linear, quadratic, and exponential models and will interpret categorical and quantitative data. Students will take a local final exam at the end of the first year. Course meets 5 periods per week. Students must receive approval from the ENL Chairperson before they can register for this course.

ENL ALGEBRA 1B

1 Unit 40 weeks - (3553)

This course, the second in a series of two designed specifically for newcomer ELLs and SIFE students, is intended to build upon their knowledge of arithmetic as it applies to the study of Algebra. Over the course of the second year of study, students will engage in a study of polynomial and rational expressions, equations and inequalities, and functions. Additionally, students will construct and compare linear, quadratic, and exponential models and will interpret categorical and quantitative data. Students will take the Algebra I Regents Exam at the conclusion of the two-year sequence. Course meets 5 periods per week. Students must receive approval from the ENL Chairperson before they can register for this course.

Prerequisite: ENL Algebra 1A

Music Department

Izzet Mergen, Ed.D.

Director of Fine and Performing Arts

631-262-6694



Since the beginning of history, music has involved people as creators, performers and listeners. Diverse communities throughout the world continue to express their cultural ideals, values and unique characteristics through music.

The purpose of all music courses at Northport High School is to develop musical literacy through performance of music (play, sing, read, and move), responding to music (listen and evaluate), creation of music (compose, improvise, and notate), and connecting music (relating and applying musics to history and culture). All students have the potential to learn and enjoy music and studies show that music helps students become better thinkers, develop higher-order skills, and increase their desire to learn. Music students are encouraged to explore and participate in our award-winning program in multiple music classes while reaching their fullest potential as both active performers and appreciators of the styles and genres expressed through music.

At Northport High School, music instruction is divided into three general areas, *Music Performance*, *Music Composition and Theory*, and *Electronic Music/Recording Studio Production*, and is offered at Foundation, Intermediate, and Advanced levels (see *Table A* below).

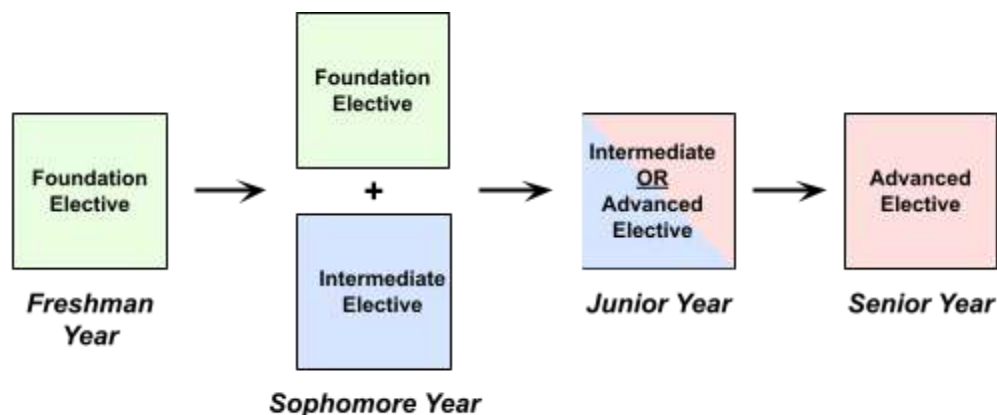
Table A: List of Foundation, Intermediate, and Advanced Music Courses

Foundation Courses	Intermediate Courses	Advanced Courses
Music Performance: Musical Theater I Guitar/Piano I Freshman Band Freshman Choir String Orchestra I	Music Performance: Musical Theater II, III Guitar/Piano II Concert Band Treble Choir Concert Choir String Orchestra II	Music Performance: Musical Theater IV Symphonic Winds Tour Choir Symphony Orchestra
Music Theory/Composition: Comprehensive Foundations of Music I	Music Theory/Composition: Comprehensive Foundations Of Music II	Music Theory/Composition: Comprehensive Foundations Of Music III International Baccalaureate (IB) Music (SL & HL)
Electronic Music/Recording Studio Production: Electronic Music/Audio Production I	Electronic Music/Recording Studio Production: Electronic Music/Audio Production II	Electronic Music/Recording Studio Production: Advanced Electronic Music/Audio Production I, II

Music Sequence

Five units of music can be taken in place of the second social studies regents OR language requirement and a student can take a Regents sequence in music or **Individualized Arts Assessment Program (IAAP-M)** can be taken as a fifth assessment required for Regents and Advanced Regents diplomas. Students taking an IAAP-A are encouraged to discuss these five unit music sequences with their school counselor, any of their music teachers, or the Director of Fine and Performing Arts for assistance with choosing a proper IAAP-M program as early as possible.

Individualized Arts Assessment Pathway-Music (IAAP-M) Template



The IAAP depicted in this template is a road map to cultivating a rich musical skill set that paves the way for college and career readiness. A hallmark of this program is its flexibility, designed to accommodate the evolving interests and talents of each student. Through a tailored journey across diverse musical studies, students are encouraged to explore, experiment, and excel in their chosen musical areas of exploration and study.

A significant part of this journey involves ongoing communication with guidance counselors, music teachers, and other mentors who provide invaluable insight, feedback, and support. They play a crucial role in helping students navigate the IAAP-M, ensuring a well-rounded and robust learning experience. To see personalized examples of specific IAAP-M pathways, [CLICK HERE](#).

As students progress through the music program, they will delve into advanced level courses that emphasize high levels of performance, technique, and artistry. This is a critical step towards showcasing their artistic evolution and preparedness for a future that includes music. The collaborative nature of our music program, coupled with the personalized guidance and the broad spectrum of music courses offered, sets the stage for students to discover their musical voice as they move on into college and the professional music world. Engagement, exploration, and effective communication are the cornerstones of the IAAP-M, setting a strong foundation for every aspiring music-maker's academic and creative journey. Please see *Table B*, below, for Careers in Music based on IAAP Pathways.

Table B: Careers in Music based on IAAP Pathways

Music Performance: Music Teacher District Supervisor of Music Education Program Music Professor Broadway Actor Broadway Musician Classical Musician	Music Theory/Composition Music Teacher Music Professor Video Game Composer Film Score Composer Television Composer	Electronic Music/Recording Studio Production: Music Teacher Music Professor Music Producer Recording/Audio Engineer Mastering Engineer Artist Manager
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Studio/Session Musician		Tour Manager Concert Promoter A&R Coordinator Booking Agent Music Publicist
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Music Courses

Foundation Courses

Musical Performance Foundation Courses

MUSICAL THEATRE I

1 Unit 40 weeks (6400) or

1/2 Unit 20 weeks (Sem 6401)

This is a performance based class focusing on acting and singing skills as they relate to the varied forms of musical theater. There is an emphasis on the study of monologues, songs, one-act plays and musical theater scenes. In-class performances are continuous and involve using the varied components mentioned as they are studied.

GUITAR/PIANO WORKSHOP I

1 Unit 40 weeks (6509)

This course is designed for either beginning or continuing guitar/piano students who wish to improve and/or develop their reading and playing skills. This course helps most students play with more self-confidence. Acoustic guitars and keyboards will be available for daily classroom use and exposure to keyboard synthesizers will be provided. Students will study both guitar and piano if taken for a full year. This program may be taken for 2 years if both guitar and piano are emphasized for one unit each. May be taken in grades 9, 10, 11, 12.

GUITAR/PIANO WORKSHOP Ia

1/2 Unit 20 weeks (6507)

This course is designed for either beginning or continuing guitar/piano students who wish to improve and/or develop their reading and playing skills. This course helps most students play with more self-confidence. Acoustic guitars and keyboards will be available for daily classroom use and exposure to keyboard synthesizers will be provided. Students will study both guitar and piano if taken for a full year. This program may be taken in grades 9, 10, 11, 12.

GUITAR/PIANO WORKSHOP Ib

1/2 Unit 20 weeks (6508)

This course is designed for either beginning or continuing guitar/piano students who wish to improve and/or develop

their reading and playing skills. This course helps most students play with more self-confidence. Acoustic guitars and keyboards will be available for daily classroom use and exposure to keyboard synthesizers will be provided. Students will study both guitar and piano if taken for a full year. This program may be taken in grades 9, 10, 11, 12.

FRESHMAN BAND

1 Unit 40 weeks (6606)

Band is a performance class elective in which students study a broad spectrum of music for wind and percussion instruments. During the course of each year there are several performing ensembles: Tiger Marching Band, Freshman Band, Concert Band and Symphonic Winds.

All band students are required to perform in and complete requirements for Marching Band and one of the three Concert Bands, as well as one weekly small instrumental lesson class. All band students must also attend the ten-day summer pre-clinic and five-day Band Camp to be assured an individual position in the marching band show. Participation in ALL PERFORMANCES is a requirement of the course. All band students are required to maintain a minimum level of playing proficiency as required by each group.

MARCHING BAND FLAGLINE

1/2 Unit 20 weeks - Fall only (6611)

This is a select performing group which performs with the Marching Band during the first semester and on special occasions thereafter. All members must attend the week-long Summer Band Camp and Pre-Clinic summer rehearsals where the members work with flag specialists and learn the new routines for the coming season. Participation in all public performances, including parades, is a requirement of the course.

Prerequisite: Faculty recommendation/Audition.

FRESHMAN CHOIR

1 Unit 40 weeks (6598) or 1/2 Unit 20 weeks (6599)

This ensemble is open to all students who are interested in further development of their singing voices. During the year a

variety of choral music from various historical periods will be studied and performed.

This chorus participates in two concerts in the High School auditorium and may also combine with the Concert Choir each year, in performances of a major choral work with an instrumental ensemble if possible. Each student will also attend one vocal techniques class per week during the school day. Students in the ensemble will also be eligible to audition for the Northport High School Tour Choir, which will meet on Monday evenings throughout the year, and the Northport High School Vocal Jazz Ensemble, which will meet on Wednesday evenings throughout the year. This is part one of our four-year choral program.

STRING ORCHESTRA

1 Unit 40 weeks (6607)

This ensemble studies and performs many various styles of music from the Baroque to the 20th Century. Three major concerts plus many small ensemble performances are given each year. Participation in all performances and daily rehearsals as well as attendance at weekly small ensemble classes is required.

Prerequisite: Enrollment in this course is open to 9th - 12th grade students.

Music Theory/Composition Foundation Courses **COMPREHENSIVE FOUNDATIONS OF MUSIC I**

1 Unit 40 weeks (6504)

These courses meet the Core requirement of the Regents Action Plan and are also important for those students who wish to complete a music sequence. Would you like to create your own music? These courses teach the fundamentals of composing, improvising, arranging, and computer notation, sight singing, ear training and keyboarding. Students will learn how to write melodies, chord progressions, phrases and ensemble music in small and moderate sized forms. A variety of music literature is studied throughout the year. Students' compositions will be discussed in class and with the teacher. Compositions may be included in the annual NHS Composers Concert. These courses fulfill the Art/Music graduation requirement. Students in Comprehensive Foundations of Music II and/or III take the Music Regents Examination in June.

Electronic Music/Recording Studio Production Foundation Courses

ELECTRONIC MUSIC/AUDIO PRODUCTION I

1 Unit 40 weeks (6520)

This course is designed for those who would like to explore and create music with electronic music software and instruments such as keyboard and guitar synthesizers, drum machines, electric guitars, Digital Audio Workstations (DAWs), up-to-date music technology and computers. Students will listen to music compositions and music written using the electronic medium. Students will be introduced to programs like GarageBand, Logic, and others.

Prerequisite: Completion of one year of Piano or Guitar Instruction is recommended, but not necessary.

Intermediate Courses

Musical Performance Intermediate Courses

MUSICAL THEATRE II & III

1 Unit 40 weeks (6402 & 6405) or 1/2 Unit 20 weeks (6403)

This course is designed for the serious student who wishes to further develop their acting and singing skills through musical theater performance and scene study. Units include audition preparation, character break-down and development, script and scene analysis. This is a highly practical course with many in-class performances, but there is also serious study of acting techniques and the various performance requirements for creating a character and/or role.

Prerequisite: Musical Theatre I and/or II, or permission of the Director of Fine and Performing Arts.

GUITAR/PIANO WORKSHOP II

1 Unit 40 weeks (6501)

This course is designed for either beginning or continuing guitar/piano students who wish to improve and/or develop their reading and playing skills. This course helps most students play with more self-confidence. Acoustic guitars and keyboards will be available for daily classroom use and exposure to keyboard synthesizers will be provided. Students will study both guitar and piano if taken for a full year. This program may be taken for 2 years if both guitar and piano are emphasized for one unit each. May be taken in grades 9, 10, 11, 12.

CONCERT BAND

1 Unit 40 weeks (6606)

Band is a performance class elective in which students study a broad spectrum of music for wind and percussion instruments. During the course of each year there are several performing

ensembles: Tiger Marching Band, Freshman Band, Concert Band and Symphonic Winds.

All band students are required to perform in and complete requirements for Marching Band and one of the three Concert Bands, as well as one weekly small instrumental lesson class. All band students must also attend the ten-day summer pre-clinic and five-day Band Camp to be assured an individual position in the marching band show. Participation in ALL PERFORMANCES is a requirement of the course. All band students are required to maintain a minimum level of playing proficiency as required by each group.

MARCHING BAND FLAGLINE

1/2 Unit 20 weeks - Fall only (6611)

This is a select performing group which performs with the Marching Band during the first semester and on special occasions thereafter. All members must attend the week-long Summer Band Camp and Pre-Clinic summer rehearsals where the members work with flag specialists and learn the new routines for the coming season. Participation in all public performances, including parades, is a requirement of the course.

Prerequisite: Faculty recommendation/Audition.

TREBLE CHOIR

1 Unit 40 weeks (6600)

Enrollment in this course is open to all 10th, 11th and 12th grade students. A variety of music will be studied and performed throughout the year which was written especially for treble voices, including musical theater, classical, pop, jazz, spirituals, contemporary, and more. Performances will also include the addition of other art forms (dance, poetry, theater, visual art) according to student interest and ability. Each student will also attend one vocal techniques class during the week, to improve vocal skills and music reading skills. This group will also participate in exchange programs with other high schools. All concerts, extra rehearsals and competitions are mandatory. Students in this ensemble will also be eligible to audition for the Northport Tour Choir, which will meet on Monday evenings throughout the year, and the Northport High School Vocal Jazz Ensemble, which will meet on Wednesday evenings throughout the year. This is part two of our four year choral program.

CONCERT CHOIR

1 Unit 40 weeks (6602)

Enrollment in this course is open to 10th, 11th, and 12th grade men and 11th and 12th grade women. This nationally

recognized performing ensemble continues to strive for the highest musical standards of excellence. The course is designed to further develop principles of vocal production through choral singing. Many important choral works are studied and numerous performances are given throughout the year. The concert schedule includes singing at hospitals, homes for the elderly, libraries, and other community centers in addition to those major performances given in the high school auditorium; also exchange concerts with other high school choirs, participation in choral festivals, choir tours, and other special events. In addition to regular class meetings, there will also be one vocal techniques class given each week which will meet on a rotating basis. Students in this ensemble will also be eligible to audition for the Northport High School Tour Choir, which will meet on Monday evenings throughout the year, and the Northport High School Vocal Jazz Ensemble, which will meet on Wednesday evenings throughout the year. This is the third and fourth year of our four year choral program. Students in the Tour Choir are encouraged and helped to prepare solos for college auditions, musicals, and the variety show. The Tour Choir is a select ensemble which will learn separate and advanced musical programs, and represent Northport High School at major music festivals throughout the country. Furthermore, it is recommended that all Tour Choir students are required to attend the pre-clinic and clinic summer programs.

STRING ORCHESTRA

1 Unit 40 weeks (6607)

This ensemble studies and performs many various styles of music from the Baroque to the 20th Century. Three major concerts plus many small ensemble performances are given each year. Participation in all performances and daily rehearsals as well as attendance at weekly small ensemble classes is required.

Prerequisite: Enrollment in this course is open to 9th - 12th grade students.

Music Theory/Composition Intermediate Courses **COMPREHENSIVE FOUNDATIONS OF MUSIC II**

1 Unit 40 weeks (6505)

These courses meet the Core requirement of the Regents Action Plan and are also important for those students who wish to complete a music sequence. Would you like to create your own music? These courses teach the fundamentals of composing, improvising, arranging, and computer notation, sight singing, ear training and keyboarding. Students will learn how to write melodies, chord progressions, phrases and

ensemble music in small and moderate sized forms. A variety of music literature is studied throughout the year. Students' compositions will be discussed in class and with the teacher. Compositions may be included in the annual NHS Composers Concert. These courses fulfill the Art/Music graduation requirement. Students in Comprehensive Foundations of Music II and/or III take the Music Regents Examination in June.

Electronic Music/Recording Studio Production

Intermediate Courses

ELECTRONIC MUSIC/AUDIO PRODUCTION II

1 Unit 40 weeks (6521)

This course is designed for those who would like to explore and create music with electronic music software and instruments such as keyboard and guitar synthesizers, drum machines, electric guitars, Digital Audio Workstations (DAWs), up-to-date music technology and computers. Students will listen to music compositions and music written using the electronic medium. Students will be introduced to programs like GarageBand, Logic, and others.

Prerequisite: Completion of one year of Piano or Guitar Instruction is recommended, but not necessary.

Advanced Music Courses

Musical Performance Intermediate Courses

MUSICAL THEATRE IV

1 Unit 40 weeks (6406)

This course is designed for serious Musical Theatre students who may wish to continue to further develop their acting and singing skills through musical theater performance and scene study into college. Units include advanced audition preparation, character break-down and development, script and scene analysis and study, "cold read," drama and musical scene study, and play and musical script reading. This is a highly practical course with many in-class performances, and there is also serious study of acting techniques and the various performance requirements for creating a character and/or role. Field trips, in class demonstrations and work with professional guest artists will be incorporated in the class activities. (There will be a cost factor involved with field trips.) *This course is available for three college credits through Five Towns College (THR121) for Juniors and Seniors only. Tuition is approximately \$50.*

Prerequisite: Musical Theatre I and/or II, or permission of the Director of Fine and Performing Arts.

GUITAR/PIANO WORKSHOP III

1 Unit 40 weeks (6503)

This course is designed for either beginning or continuing guitar/piano students who wish to improve and/or develop their reading and playing skills. This course helps most students play with more self-confidence. Acoustic guitars and keyboards will be available for daily classroom use and exposure to keyboard synthesizers will be provided. Students will study both guitar and piano if taken for a full year. This program may be taken for 2 years if both guitar and piano are emphasized for one unit each. May be taken in grades 9, 10, 11, 12.

SYMPHONIC WINDS-HONORS

1 Unit 40 weeks (6609)

During the fall Marching Band season, students wishing to perform in Symphonic Winds must audition and receive a recommendation from the audition committee. Students in Symphonic Winds have a further obligation to attend one evening rehearsal per week as well as participate in extra performances and Symphony Orchestra as required. Students enrolled in Symphonic Winds will receive honor credit.

Membership in Symphonic Winds is a privilege, which requires students to maintain and improve their level of playing proficiency, as well as work cooperatively with other ensemble members to achieve an advanced level of balance, blend, intonation, technique and musicality. This requires students to make an extra commitment to individual practice, small instrumental lesson classes, daily rehearsals, evening rehearsals and performances. *This course is available for three college credits through Five Towns College (ENS390) for Juniors and Seniors only. Tuition is approximately \$50.*

Prerequisite: Audition and audition committee recommendation.

TOUR CHOIR-HONORS

1 Unit 40 weeks (6603)

All Northport High School choir members are eligible to audition for Tour Choir, a select ensemble that performs internationally, nationally, regionally as well as within the Northport Community. It is recommended that all prospective Tour Choir members attend the Summer Choral Clinic. Clinic participants will be given priority consideration for Tour Choir membership. Auditions are held within the first three weeks of September. Students are selected by committee recommendation. Tour Choir members are required to attend a weekly evening rehearsal, a twice monthly octet rehearsal, special performances as well as the required in-school weekly

scheduled lesson. Students enrolled in Tour Choir will receive honors credit for their respective vocal ensembles. The privilege of Tour Choir membership requires students to be model citizens, working toward improving their level of musical proficiency, commit to individual practice and attend ALL rehearsals and performances. Membership in a performing group depends upon ALL members working together to create an artistic statement. Musical excellence can only be achieved if EVERY member works toward this noble goal. *This course is available for three college credits through Five Towns College (ENSS322) for Juniors and Seniors only. Tuition is approximately \$50.*

Prerequisite: Audition and audition committee recommendation

SYMPHONY ORCHESTRA-HONORS

1 Unit 40 weeks (6608)

Enrollment in Symphony Orchestra is open to 10th graders who achieve a minimum level V “96” or level VI “92” NYSSMA solo rating in their freshman years, and to 11th and 12th grade students who achieve a minimum level V “92” NYSSMA solo rating in their sophomore or junior years and/or through teacher recommendation. (Teacher recommendation may be used to help maintain balance within the orchestra’s sections).

Students in Symphony Orchestra are required to attend weekly evening rehearsals as well as daily in-school rehearsals and weekly small ensemble classes. Students are required to attend all performances. There will also be opportunities for small ensemble performances.

Students in Symphony Orchestra-Honors will be studying and performing music from the most difficult level in the NYSSMA manual, and will be expected to make an extra commitment to improve their level of playing proficiency through consistent individual practice. The success of a music ensemble relies on the ability of the individuals within the organization to collaborate and work together to reach a common goal. The effort and attendance of every member of the ensemble is necessary in order for the ensemble to improve and grow musically, and to achieve the high standards expected of an honors course. *This course is available for three college credits through Five Towns College (ENS378) for Juniors and Seniors only. Tuition is approximately \$50.*

Prerequisite: Open to 10th, 11th and 12th grade students who have achieved the NYSSMA Solo ratings as explained above and/or teacher recommendation.

Music Theory/Composition Intermediate Courses **COMPREHENSIVE FOUNDATIONS OF MUSIC III** **1 Unit 40 weeks (6506)**

These courses meet the Core requirement of the Regents Action Plan and are also important for those students who wish to complete a music sequence. Would you like to create your own music? These courses teach the fundamentals of composing, improvising, arranging, and computer notation, sight singing, ear training and keyboarding. Students will learn how to write melodies, chord progressions, phrases and ensemble music in small and moderate sized forms. A variety of music literature is studied throughout the year. Students' compositions will be discussed in class and with the teacher. Compositions may be included in the annual NHS Composers Concert. These courses fulfill the Art/Music graduation requirement. Students in Comprehensive Foundations of Music II and/or III take the Music Regents Examination in June. *This course is available for three college credits through Five Towns College (MUS111) for Juniors and Seniors only. Tuition is approximately \$50.*

IB MUSIC - 1 Unit 40 weeks

11th or 12th Grade Standard Level (6512)

11th Grade Higher Level (6513)

12th Grade Higher Level (6515)

The IB Music course of study is designed to promote a greater awareness and understanding of music through a variety of musical experiences. Students will be exposed to a broad spectrum of music ranging from that of Western traditions to world regions and cultures. Components of this course include theoretical study, development of listening and aural skills, score analysis, individual student composition and performance. This course requires a variety of IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year. *This course is available for three college credits through Five Towns College (MUS121, MUS123) for Juniors and Seniors only. Tuition is approximately \$50.*

Prerequisite: Comprehensive Foundations of Music I, II, and III or permission of instructor.

Electronic Music/Recording Studio Production **Intermediate Courses** **ADVANCED ELECTRONIC MUSIC/AUDIO** **PRODUCTION**

1 Unit 40 weeks (6523)

This is for students who have mastered beginning electronic music skills and want to improve recording and composing skills. Students will experience the latest techniques in digital non-linear editing and recording in our new state-of-the-art Digital Audio/MIDI Recording Studio. The production of audio recording projects is a course requirement. Field trips to

recording studios may be offered. *This course is available for three college credits through Five Towns College (AUD303) for Juniors and Seniors only. Tuition is approximately \$50.*

Prerequisite: Electronic Music/Audio Production is recommended, but not necessary.

Physical Education

Mark J. Dantuono
District Director of Physical Education, Health & Athletics
631-262-6701

The physical education experience is designed to facilitate the motor skills development of all Northport High School students. To accomplish this objective, the benefits of activity are taught through traditional sports units, physical fitness, dance and life-long activities as well as in several non-traditional physical education instructional settings.

We strive to instill core values and life skills needed to lead a healthy and safe lifestyle upon graduating from Northport High School. Upon graduating from Northport High School, a “Physically Educated Person”:

- Has demonstrated the skills necessary to perform a variety of physical activities
- Develops a passion for the importance of incorporating physical activity in their daily life
- Understands the benefits from involvement in physical activity
- Appreciates the value of hard work, respect one another and the ability to function within in a team setting

General Physical Education Program

Students will be exposed to a variety of activities. Many of these activities will be beneficial in maintaining a healthy, fit body as well as developing leisure, recreational skills for lifetime participation. Students will review fundamental skills learned in previous grades. In addition, they will learn more advanced skills in team play, strategies, body movements, and skills analysis.

Aerobics/cycling Archery Badminton Basketball CPR in Schools Cooperative Games Fitness Walking	Flag Football Indoor Hockey Indoor Soccer Orienteering	Pickleball Personal Fitness Recreational Games Self-Defense Soccer Softball	Team Handball Tennis Track Volleyball Weight Training Yoga Non-Traditional Games
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CPR in Schools Program

All students in tenth and twelfth grade will receive training in cardiopulmonary resuscitation (CPR) and will also have the opportunity to receive a two-year certification in adult CPR that is accredited through the American Heart Association. Ninth and eleventh grade students will be exposed to a refresher course which will review all techniques applied to CPR.

Physical Education is a State required course. Successful completion totaling 2 Units of credit of Physical Education in Grades 9 - 12 (4 years) is necessary for graduation. According to Board Policy, students can opt to have their Physical Education grade excluded from their average. Parents will be receiving a Physical Education Grade Option Form for all students which must be returned to your building principal by the date indicated on the letter. If it is not returned, the physical education grade will be included in the grade point average. In addition, the choice is in effect for the full year and cannot be changed.

PE FITNESS FOR LIFE 9/10 - Full Year (8126)
½ Unit 40 weeks (meets every other day)

Students will be introduced to a variety of Physical Education experiences throughout this course. Wellness, team sports and individual activities will be taught. Each student will be introduced to wellness concepts through experiences in the fitness room and individual goal setting. Students will be expected to demonstrate an understanding of rules and strategies associated with team and individual games, as well as demonstrating continued personal growth throughout the school year. Students will be assessed each class session based on the rubric for Physical Education.

PE FITNESS FOR LIFE – ADV 11/12 - Full Year (8130)
½ Unit 40 weeks (meets every other day)

Students will be expected to physically demonstrate competencies and be able to show personal growth throughout the school year. Additionally, students will be expected to demonstrate competencies in both team and individual sports, as well as, personal fitness improvement throughout the course of the year. Students will be assessed each class session based on the rubric for Physical Education.

Special Courses

Students may select, register and participate in a Special Physical Education course in place of a General Physical Education course.

Students not gaining enrollment in the selected class will automatically be scheduled for General Physical Education as permitted by the master schedule.

MOVEMENT & WELLNESS

½ Unit 40 weeks (9174)
Grades 9-12

This class offers a non-competitive environment that focuses on developing the physical, social, and emotional needs that make up a student's wellbeing. This class provides students an opportunity to reflect on their body's abilities by practicing movement activities that increase body awareness through a variety of dance and fitness activities. Students will learn the history behind numerous world dances and be able to demonstrate the basic movements in these styles. Through community resources, students will have the opportunity to experience numerous field trip opportunities. Students will also participate in activities where they learn about critical life skills such as decision making, problem solving, communication and goal setting. By examining dance, fitness and mindfulness in both the local and global contexts students will move towards a fuller appreciation and understanding of the influence of movement and wellness in

their everyday lives and be aware of how to create a healthy lifestyle.

Enrollment in this course is limited. Students not gaining enrollment due to the limited number of available student seats will be automatically scheduled for General Physical Education.

ADVANCED DANCE

½ Unit 40 weeks (9063) Grades 10 - 12

In this course dancers will progress through combinations and be introduced to dance as a vital, communicative and performing art, reflecting social values and cultural beliefs. During the class students will explore elements of a wide variety of dance styles and practices through movement explorations, dance-making, readings, discussions, videos, written responses, collaborative projects and optional attendance at live dance events. The course will culminate in a final collaborative project that incorporates knowledge and new understanding gained over the semester.

IB DANCE – ½ Unit 40 weeks

11th Grade Standard Level (9066)

12th Grade Standard Level (9069)

Dance is a unique medium for learning about self and the world. It is one essential component of artistic, aesthetic and cultural education, and develops creative potential through physical expression. The IB Dance curriculum aims for a holistic approach to dance, and embraces a variety of traditions and dance cultures. Performance, creative and analytic skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum encourages students to think about dance through an arts and humanities lens. This orientation facilitates the development of students who may become choreographers, dance scholars and/or performers. The course also welcomes those students who seek life enrichment through dance.

The course is constructed so that all students are given opportunities to study a variety of world dance traditions through exposure to physical practice and observation as well as written investigation. Examining dance from both familiar and unfamiliar cultures and/or traditions develops comparative thinking skills and deepens understanding of one's own culture(s) as well as those of others.

This standard level course requires a variety of IB internal and external assessments over two years of study and will meet every other day. This course meets the physical education requirement for 11th and 12th grade students and cannot be taken honors/pass/fail. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisite: Introduction to Dance or permission of instructor.

TIGERETTES/WORLD DANCE

½ Unit 40 weeks (8004)

Selected 9th, 10th, 11th and 12th grade students make up this precision dance-kickline which meets every ninth period in the fall and every other ninth period in the spring. Performance at all home football games, parades, Newsday Marching Band Festival and special events are coordinated with the Tiger Marching Band. In the winter the dance team performs at boys and girls home basketball games and other various community events. During the spring semester students will focus on learning the principles and practices of creating dance choreography as a form of human expression. The elements of body, shape, space and time; qualities of movement; principles of composition; and ways to modify movement phrases are the basis for the compositional studies presented, explored and evaluated.

Students will have the opportunity to create and perform their work at various venues in the community including the IB Dance Showcase. Students will be introduced to the innovators, dancers and choreographers who shaped the development of dance through dance-making, readings, discussions, videos, written responses, and collaborative projects.

Prerequisite: audition only.

YOGA / WELLNESS FOR LIFE

½ Unit 40 weeks (8117)

Grades 10-12

This course is designed to enhance the student's fitness and well-being. Yoga, flexibility, core strength and body sculpting will be the predominant themes stressed throughout this course. Students will be taught the importance of lifelong wellness while being given the tools to achieve their own personal goals.

Science Department

David Storch
District Chairperson of Science, Technology and Engineering Education
631-262-6704



[Science Department Video Welcome & Course Overview](#)

[Dual Enrollment Science Video](#)

[Science Electives Video](#)

[Science Research Program Video](#)

[Science Department HyperDoc](#)

A study of the four major scientific disciplines is a primary part of a comprehensive high school educational experience in preparation for successful entry into our increasingly technological and complex world. All students – whether they become technicians in a hospital, marketing analysts in business, graphic designers in the arts, product engineers in manufacturing, or PhD researchers – must have a solid foundation in science education. It is essential that each student challenge and explore the fundamentals of **Earth & Space Sciences, Biology, Chemistry, and Physics** through a core program of study. Each of these disciplines and their core courses examine critical aspects of the natural world in order for all students to become scientifically literate; having the knowledge and understanding of scientific concepts and processes required for personal decision making, participation in civic and cultural affairs, and economic productivity.

The selection of the specific sequence of core science courses and their corresponding level should be made through joint discussions between the student, teacher, guidance counselor, and parent. Students are encouraged to **challenge the most rigorous program of science courses** in which they can be successful.

Regents diploma requirements can be met by earning three units of credit in commencement-level science including one course from the Physical Sciences (Earth and Space Sciences, Chemistry, Physics) and one course from the Life Sciences (Biology). In addition, students must pass one Regents examination in science. Regents science courses require completion of 1200 minutes of laboratory experience with satisfactory lab reports. In order to earn a Regents diploma with advanced designation, students must earn three units of credit in commencement-level science and pass two Regents examinations with at least one from the Life Sciences and one from the Physical Sciences.

The department offers science courses designed to expose students to content and inquiry beyond the scope of the fundamental scientific disciplines and should therefore typically be taken concurrently with or in addition to the Regents courses. This ensures that our students graduate with the necessary skills to continue their education as scientifically literate learners. Full year coursework in **Astronomy, *Forensic Science, *Medical Anatomy & Physiology, Marine Science, and LI Native Ecology & Plant Science** develops specialized skills which broaden scientific knowledge and foster potential career pathways. Students considering future university study in science or science-related fields are encouraged to consider challenging **Scientific Investigations (SI)** courses, **Advanced Placement (AP)**, **International Baccalaureate (IB)**, as well as **Science Research** courses.

* affiliated with the LIU High School Scholars Program for potential college credit

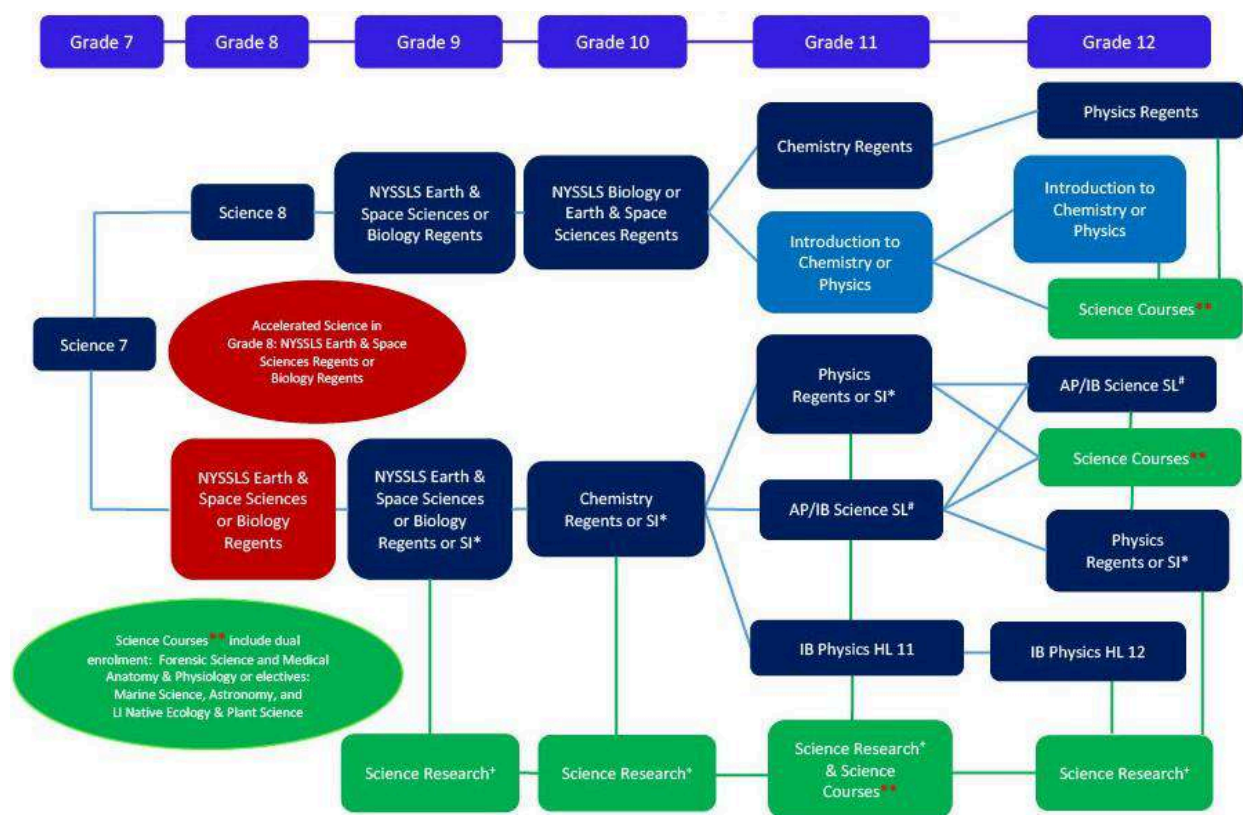
Science courses include skill development in:

*Asking questions and defining problems
Developing and using models
Planning and carrying out investigations
Analyzing and interpreting data*

*Using mathematics and computational thinking
Constructing explanations and designing solutions
Engaging in argument from evidence
Obtaining, evaluating, and communicating information*

Scientific Investigation (SI) courses are rigorous, honors-level science classes for highly motivated students who display organizational and study skills, self-discipline and dedication to task. SI laboratory activities provide students with an opportunity to design and conduct inquiry-based investigations. **SI classes are open enrollment**; however, students and parents should consider whether they are **well prepared for this challenging and in-depth course of study**.

Northport-East Northport UFSD Secondary Science Course Sequences



* **SI – Scientific Investigations** are rigorous, **honors-level science courses** for highly motivated students who display organizational and study skills, self-discipline and dedication to task.

** **Dual Enrolment** includes **Forensic Science** and **Medical Anatomy & Physiology** courses which work in concert with the Long Island University High School Scholars Program for potential college credit. These courses may be taken in 11th grade concurrently with the core Regents science course or as an elective in the senior year.

⁺**Science Research** may be taken at any point throughout a student's high school experience (every day, every other day, and independent study options available).

[#] **AP/IB Science** options include **AP Biology**, **IB Biology SL**, **AP Chemistry**, **IB Chemistry SL**, **AP Physics 1 & 2**, **IB Physics HL 11 & 12**, and **AP Environmental Science**.

** **Science Electives** include **Astronomy**, **Marine Science**, and **LI Native Ecology & Plant Science** which may be taken concurrently with core Regents science courses at any point in high school.

REGENTS SCIENCE COURSES



EARTH and SPACE SCIENCES REGENTS (FORMERLY EARTH SCIENCE)

1 Unit 40 weeks (2350) NCAA Approved

The NYS Science Learning Standards (NYSSLS) Earth and Space Sciences course integrates core disciplinary ideas with scientific and engineering practices and crosscutting concepts offering students a comprehensive exploration of natural scientific phenomena in the Earth and space sciences. Students will engage in the study of Earth's structure, composition, processes, and its place within the solar system while making connections to geology, astronomy, meteorology, and oceanography, with an emphasis on understanding the interactions between Earth's systems and how they influence life on the planet. Throughout the course, students will engage in hands-on laboratory work to help them develop scientific inquiry and data analysis skills as they work toward three-dimensional, performance-based assessment tasks. Key emphasis is placed on data analysis, developing scientific explanations, and constructing evidence-based arguments. Through case studies and real-world applications, students will investigate real world scenarios related to natural phenomena like earthquakes, weather patterns, and climate change. The final exam for this course will be the NYSSLS Earth and Space Sciences Regents exam. To qualify for the NYSSLS Earth and Space Sciences Regents exam, completion of 1200 minutes of laboratory experience including three NYSED Required Lab Investigations with satisfactory laboratory reports must be on file.

EARTH and SPACE SCIENCES– Scientific Investigations (SI)

1 Unit 40 weeks (2351) NCAA Approved

This course is for **highly motivated students** who display organizational and study skills, self-discipline, and maturity. NYSSLS Earth and Space Sciences SI is a more challenging and in-depth course of study at the honors level. In the laboratory setting, students will design and carry out several guided and open inquiry-based investigations. This includes the development of a question, formulation of a hypothesis, experimental design, data collection and analysis including mathematical computation, engaging in argument from evidence, and a final evaluation to communicate results. The final examination in this course will be the NYSSLS Earth and Space Sciences Regents exam.

To qualify for the NYSSLS Earth and Space Sciences Regents exam, completion of 1200 minutes of laboratory experience including three NYSED Required Lab Investigations with satisfactory laboratory reports must be on file.

NYSSLS BIOLOGY REGENTS (FORMERLY LIVING ENVIRONMENT)

1 Unit 40 weeks (2348) NCAA Approved

The NYS Science Learning Standards (NYSSLS) Biology course integrates core disciplinary ideas with scientific and engineering practices and crosscutting concepts offering students a comprehensive exploration of natural scientific phenomena in the life sciences. Students will engage in the study of cellular biology, genetics, evolution, ecology, and human body systems while making connections to environmental issues, public health, and biotechnology.

Throughout the course, students will engage in hands-on laboratory work to help them develop scientific inquiry and data analysis skills as they work toward three-dimensional, performance-based assessment tasks. Key emphasis is placed on data analysis, developing scientific explanations, and constructing evidence-based arguments. Through case studies and real-world applications, students will investigate pressing topics such as genetic engineering, climate change, biodiversity, and human impact on ecosystems.

The final exam for this course will be the NYSSLS Biology Regents exam. To qualify for the NYSSLS Biology Regents exam, completion of 1200 minutes of laboratory experience including three NYSED Required Lab Investigations with satisfactory laboratory reports must be on file



BIOLOGY– Scientific Investigations (SI)

1 Unit 40 weeks (2349) NCAA Approved

This course is for **highly motivated students** who display organizational and study skills, self-discipline, and maturity. This course follows the general outline for NYSSLS Biology but provides students with a more challenging and in-depth course of study at the honors level. In the laboratory setting, students will design and carry out several guided and open inquiry-based investigations. This includes the development of a question, formulation of a hypothesis, experimental design, data collection and analysis including mathematical computation, engaging in argument from evidence, and a final evaluation to communicate results. The final examination in this course will be the NYSSLS Biology Regents exam.

To qualify for the NYSSLS Biology Regents exam, completion of 1200 minutes of laboratory experience including three NYSED Required Lab Investigations with satisfactory laboratory reports must be on file.

CHEMISTRY REGENTS

1 Unit 40 weeks (2120) NCAA Approved

The focus of this course is the study of the chemical composition, structure and properties of matter as related to energy and changes to matter. Topics include thermodynamics, bonding, kinetics, equilibrium, acid-base theories, electrochemistry, organic chemistry, and nuclear chemistry. Extensive arrays of laboratory experiments are performed to reinforce student understanding of the physical laws of chemistry in addition to the development of safe techniques in the lab. The final examination in this course will be the NYS Chemistry Regents exam.

To qualify for the NYS Chemistry Regents exam, completion of 1200 minutes of laboratory experience with satisfactory laboratory reports must be on file.

Prerequisites: Algebra I, Geometry (may be concurrent), Living Environment Regents or SI, and Earth Science Regents or SI

CHEMISTRY - Scientific Investigations

1 Unit 40 weeks (2114) NCAA Approved

This course is for **highly motivated students** who display organizational and study skills, self-discipline, and maturity. This course will follow the general outline established for Chemistry Regents, but is designed to give students a more challenging and in-depth study including concepts related to atomic theory, chemical bonding, intermolecular forces, the structure of matter, thermodynamics, stoichiometry, and descriptive chemistry. In the laboratory setting, students will be expected to design and carry out several guided and open inquiry-based investigations. This includes the development of a question, formulation of a hypothesis, experimental design, data collection and analysis including mathematical computation, engaging in argument from evidence, and a final evaluation to communicate results. The final examination in this course will be the NYS Chemistry Regents exam.

To qualify for the NYS Chemistry Regents exam, completion of 1200 minutes of laboratory experience with satisfactory laboratory reports must be on file.

Prerequisites: Algebra I and Geometry (may be concurrent), Living Environment Regents or SI, and Earth Science Regents or SI.

INTRODUCTION TO CHEMISTRY

1 Unit 40 weeks (2119) NCAA Approved

This course is designed for students to discover and analyze how chemistry affects and plays a role in everyday life. Topics will include the chemical aspects of reactions, atomic structure, nuclear chemistry and environmental systems. Students will work on various research projects and conduct numerous experiments throughout the year to explore the answers to many real-world chemistry-related questions.

Prerequisites: Algebra I, Living Environment R and Earth Science R.



PHYSICS REGENTS

1 Unit 40 weeks (2220) NCAA Approved

This course presents a modern view of physics and is primarily focused on the principles and laws of the physical world. Classical physics is presented within a mathematical framework in lab and lecture. Laboratory experiences play a large role in the learning process as students generate, manipulate, and relate data to the fundamental laws of matter. The final examination in this course will be the NYS Physics Regents Exam.

To qualify for the NYS Physics Regents exam, completion of 1200 minutes of laboratory experience with satisfactory laboratory reports must be on file.

Prerequisites: Algebra II (may be concurrent), Living Environment Regents or SI, Earth Science Regents or SI, and Chemistry Regents or SI.

PHYSICS - Scientific Investigations

1 Unit 40 weeks (2223) NCAA Approved

This course is for **highly motivated students** who display organizational and study skills, self-discipline, and maturity. This course will follow the general outline established for Physics Regents, but is designed to give students a more challenging and in-depth study including concepts related to heat and thermodynamics, electromagnetism, geometric optics and nuclear physics. In the laboratory setting, students will be expected to design and carry out several guided and open inquiry-based investigations. This includes the development of a question, formulation of a hypothesis, experimental design, data collection and analysis including mathematical computation, engaging in argument from evidence, and a final evaluation to communicate results. The final examination in this course will be the NYS Physics Regents exam.

To qualify for the NYS Physics Regents exam, completion of 1200 minutes of laboratory experience with satisfactory laboratory reports must be on file.

Prerequisites: Algebra II (may be concurrent), Living Environment Regents or SI, Earth Science Regents or SI, and Chemistry Regents or SI

INTRODUCTION TO PHYSICS

1 Unit 40 weeks (2219) NCAA Approved

This course is designed for students to discover and analyze how physics affects and plays a role in everyday life. Topics will include mechanics, sound and light, electricity and magnetism, and atomic and nuclear physics. Students will work on various research projects and conduct numerous experiments throughout the year to explore the answers to many real-world physics-related questions.

Prerequisites: Algebra I, Geometry, Living Environment R, and Earth Science R.

ADVANCED PLACEMENT COURSES

ADVANCED PLACEMENT BIOLOGY

1 Unit 40 weeks (2010) NCAA Approved



This course is equivalent to an introductory course in biology at the college level. The primary focus is the study of biology at the molecular level, with a strong emphasis on current trends, literature, and laboratory methodologies employed in the biological sciences. Students who plan to major in the sciences in college will benefit from this increased content, while those who do not can earn the mandatory natural science credits most colleges require of their students. All students will take the Advanced Placement Examination in Biology in May, the fee for which is approximately \$95.00 plus a College Board Administrative Fee.

Prerequisites: Living Environment R or SI, Chemistry R or SI, and recommendation of science and guidance faculty.

ADVANCED PLACEMENT CHEMISTRY

1 Unit 40 weeks (2110) NCAA Approved



This course is designed as a rigorous first-year college course emphasizing the basic principles of chemistry. Contained within this broad-based curriculum is an in-depth study of matter, chemical reactions, quantitative analysis, and qualitative chemical principles. Advanced-level laboratory activities will be performed. All students will take the Advanced Placement Examination in May, the fee for which is approximately \$95 plus a College Board Administrative Fee.

Prerequisites: Algebra I, Living Environment R or SI, Chemistry R or SI, and recommendation of science and guidance faculty.

ADVANCED PLACEMENT PHYSICS 1 and 2

1 Unit 40 weeks (2211) NCAA Approved



AP Physics 1 and 2 is a non-calculus based college course that provides a systematic introduction to the main principles of physics covering mechanics, rotational motion, thermodynamics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Students must have a working knowledge of algebra and trigonometry. The principles of physics provide a foundation for students who plan on majoring in life science, pre-medicine, applied sciences or engineering fields. All students are required to take the Advanced Placement examinations in Physics 1 and Physics 2. Each exam is reported separately and students can earn credit for one or both. The fees for the exams are approximately \$95 plus a College Board Administrative Fee each.

Prerequisites: Physics R or SI, Pre-calculus or higher (may be concurrent) and recommendation of science and guidance faculty.



ADVANCED PLACEMENT PHYSICS C

1 Unit 40 weeks (2212) NCAA Approved

AP Physics C is a rigorous calculus-based course that serves as the foundation for a college sequence for students planning to major in physics, engineering, astronomy or mathematics. Methods of calculus are used whenever appropriate for deriving physical principles and applying them to problems. The areas of mechanics and electricity and magnetism are investigated using extensive laboratory and problem solving sessions. All students are required to take the Advanced Placement Physics examination in either mechanics or electricity and magnetism. Each exam is reported separately and students can earn credit for one or both. The fee for each exam is approximately \$95 plus a College Board Administrative Fee.

Prerequisites: Physics R or SI, Calculus AB or BC (may be concurrent), and recommendation of science and guidance faculty.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

1 Unit 40 weeks (2334) NCAA Approved



This college course provides an opportunity for in-depth analysis of scientific principles and methodologies related to the interdependence of the Earth's living and non-living systems. A strong laboratory and field investigation component will support problem-solving sessions on such topics as human population dynamics, renewable and non-renewable resources, environmental quality, Earth's systems and cycles, and society's impact on the environment. All students will be required to take the Advanced Placement examination. The fee for the exam is approximately \$95 plus a College Board Administrative Fee.

Prerequisites: Earth Science R or SI, Living Environment R or SI, Algebra II (may be concurrent) and recommendation of science and guidance faculty.

INTERNATIONAL BACCALAUREATE COURSES

IB/AP BIOLOGY

11th or 12th Grade Standard Level

1 Unit 40 weeks (2021) NCAA Approved



IB Biology at the Standard Level (SL) is an introductory college-level study of the unity and diversity of living organisms on the molecular, cellular, organic and ecological levels. The course focuses upon genetics, evolution, the interrelationships between organisms and environments, human reproduction and physiology, cell respiration, immune systems, neurobiology, and the relevance of biological principles to human beings. This course prepares students for a number of required IB assessments including the Group 4 Project and the Individual Investigation. **Students may elect to challenge both the IB Biology SL and AP Biology exams. Depending on enrollment, this course may be co-seated with AP Biology.** The assessment fee is established by the

International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisites: Living Environment R or SI, Chemistry R or SI and recommendation of science and guidance faculty.

IB/AP CHEMISTRY

11th or 12th Grade Standard Level

1 Unit 40 weeks (2113) NCAA Approved



As a college-level introductory chemistry course, students in IB Chemistry at the Standard Level (SL) attain a depth of understanding of fundamentals and a competence in dealing with chemical problems that will enable them to undertake further work in chemistry or related fields. This course prepares students for a number of required IB assessments including the Group 4 Project and the Individual Investigation. **Students may elect to challenge both the IB Chemistry SL and AP Chemistry exams. Depending on enrollment, this course may be co-seated with AP Chemistry.** The assessment fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisites: Algebra I, Living Environment R or SI, Chemistry R or SI, and recommendation of science and guidance faculty.

IB PHYSICS

11th Grade Higher Level

1 Unit 40 weeks (2222) NCAA Approved

The curriculum of this course parallels the Physics Scientific Investigations course. It is designed for students who wish to take a two year sequence in IB Physics leading to the higher level IB assessment. Labs will be evaluated according to the IB assessment standards and students will be required to complete the Group 4 Project and the Individual Investigation.. The final examination in the course is the Regents Examination in Physics.

To qualify for the NYS Physics Regents exam, completion of 1200 minutes of laboratory experience with satisfactory laboratory reports must be on file.

Prerequisites: Algebra II (may be concurrent), Living Environment Regents or SI, Earth Science Regents, and Chemistry Regents or SI

IB PHYSICS

12th Grade Higher Level

1 Unit 40 weeks (2215) NCAA Approved



IB Physics is the second year of a two-year sequence that will cover the main principles of physics in depth and will stress problem-solving as well as laboratory skills. IB Physics HL 12 is a non-calculus based university course that provides a systematic introduction to the main principles of physics covering classical mechanics, thermodynamics, electricity and magnetism, waves and optics, atomic and nuclear physics, and

introductory quantum mechanics. Students must have a working knowledge of algebra and trigonometry. The principles of physics provide a foundation for students who plan on majoring in life science, pre-medicine, applied sciences or engineering fields. This course requires completion of a variety of IB assessments, the fee for which is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Prerequisite: IB Physics 11th Grade Higher Level and Pre-Calculus or higher (may be concurrent).

RESEARCH IN SCIENCE

Video Link

The Science Research Program is designed to provide students with an understanding of research methodology in the natural sciences. Although emphasis is on both laboratory and literature investigations, most importantly, students will be given the opportunity to experience true scientific discovery. Science Research is designed for students who wish to explore a topic of interest independently and are eager to progress into **advanced areas of original research**. Science Research students may elect to participate in local/national competition including but not limited to the Regeneron Science Talent Search, Siemen's Competition in Math, Science and Technology, the Long Island Science and Engineering Fair, and the Long Island Science Congress.



SCIENCE RESEARCH NCAA Approved

Grade 9

1 Unit 40 weeks (meets every day - 9733)

½ Unit 40 weeks (meets every other day - 9732)

1 Unit 40 weeks (Independent Study - 9734)

Grades 10-12

1 Unit 40 weeks (meets every day - 9736)

½ Unit 40 weeks (meets every other day - 9735)

1 Unit 40 weeks (Independent Study - 9734)

Science Research provides students with the opportunity to develop and conduct an original (individual or team) science research investigation. Working in collaboration with the science research program coordinator and one or more content specialists, students will:

- Use library and internet resources to identify and explore specific topic of interest
- Generate experimental ideas and design an original experiment
- Collect, organize, and analyze appropriate data
- Maintain a structured lab station, notebook, and portfolio
- Communicate with scientists seeking advice on their topic and experimental design
- Create and present a poster and PowerPoint presentation

- Write a formal research paper upon completion of research project
- Participate in local science research competition and/ or symposia
- Pursue an advanced summer research placement at a registered research institution (optional)

Grading in this course is Pass (P) or Fail (F) based on a set of criteria which may include class work, homework, presentations, lab reports, written reports and completed requirements in support of team research and competition activities.

Science Research may be taken during the school day for 1 or ½ unit of credit or may be challenged as an independent program of study. Please consult with the Research Science Coordinators in Room S-127 for further information.

DUAL ENROLMENT COURSES

Dual Enrolment courses are designed to expose students to content and inquiry beyond the scope of the fundamental scientific disciplines and should therefore typically be taken concurrently with or in addition to the core Regents courses in Earth and Space Sciences, Biology, Chemistry, and Physics.

MEDICAL ANATOMY AND PHYSIOLOGY

1 Unit 40 weeks (2337) NCAA Approved

This is a rigorous college-level course designed primarily for those planning careers in medicine, nursing, medical technology, other health and allied health-related fields, and physical education. The course provides an orientation to the various branches of medicine and focuses upon normal and abnormal anatomy and physiology. It lays the foundation for understanding and using medical terminology and addresses advancements in the field of medical technology. Medical laboratory techniques and dissections will be performed in the class-laboratory. Films on surgery will be analyzed. This course meets 7.5 periods per week.



A student can earn four or eight college credits from Long Island University's High School Scholars Program (BIO 7 and BIO 8 – HUMAN Anatomy and Physiology I & II) through the successful completion of each semester course, respectively. Tuition is approximately \$290 per course.

Prerequisites: Algebra I, Living Environment R or SI, and Chemistry R or SI.

FORENSIC SCIENCE

1 Unit 40 weeks (2338) NCAA Approved

Forensic science is the application of the natural sciences to an investigation of physical evidence. This college-level course will introduce students to information collected and chain of custody followed at the crime scene, photography, physical

evidence and its properties (including trace evidence, fingerprints, firearms, fibers, paint, and documents examination). This subject includes principles of microscopy, serology (blood identification procedures), origin determination, biological substances, hair comparison, drugs and toxicology, casework interpretation, quality control, proficiency testing and accreditation, and recent criminal cases. The course meets five periods per week.

A student can earn three college credits from Long Island University's High School Scholars Program (BMS 71) through the successful completion of the course. Tuition is approximately \$290.

Prerequisites: Algebra I, Living Environment R or SI, and Chemistry R or SI.

SCIENCE ELECTIVE COURSES

Science elective courses are designed to expose students to content and inquiry beyond the scope of the fundamental scientific disciplines and should therefore be taken concurrently with or in addition to the core Regents courses in Earth Science, Biology, Chemistry, and Physics.

MARINE SCIENCE

1 Unit 40 weeks (2341) NCAA Approved

This course is designed for students who have an interest in oceanography and marine biology. Students will gain an understanding of marine ecosystems and interrelationships between organisms.



Topics of exploration will include marine ecology, shoreline dynamics, ocean zones, ocean water composition and properties, currents, waves, and organism biology. Special focus will be given to Long Island's own unique marine ecosystem. The course meets five periods per week.

Prerequisites: Algebra I, Earth Science R or SI and Living Environment R or SI

ASTRONOMY

1 Unit 40 weeks (2226)

NCAA Approved

Astronomy is a course that helps students develop a clear understanding of the universe and the Earth's place within it. Students conduct field and laboratory investigations and use scientific methods to develop logical arguments about theories based solely on objective evidence. Students study the history of astronomy, characteristics and life cycles of stars, formation of the solar system, comparison of planets, orientation and placement of the Earth in the Milky Way galaxy, formation of galaxies, and theories about the formation of the universe. The course meets five periods per week.

Prerequisites: Algebra I and Earth Science R or SI

LONG ISLAND NATIVE ECOLOGY & PLANT SCIENCE

½ Unit 20 weeks (2340 – meets every other day)

NCAA Approved



Plants are the fundamental starting point for all terrestrial ecosystems. Students will engage with native plants and habitats, learning about their basic ecosystem services and economic value. Through the study of native flora, students will be empowered to take ownership of restorative projects to enhance the

biodiversity of local ecosystems. The course will take advantage of Long Island's unique environmental conditions and the importance of preserving biodiversity and ecosystem function. Conservation and restoration ecology will be studied to understand and ensure the survival of endemic plant species, many on the brink of extinction by habitat degradation and destruction by invasive species.



Unparalleled field work and laboratory research and experiences within and outside of our greenhouse will be used to present the subject matter first hand. Botanical studies may be enhanced by cooperative working relationships with the

Long Island Native Plant Initiative, the Seatuck Environmental Association, the Greentree Foundation, and other regional ecological organizations. Extended science research opportunities will be made available to students and may focus on topics ranging from the ecology, evolution, and conservation of Long Island's unique ecosystems and flora, to the threats posed by invasive species, to the uses of plants by humans.

The course meets every other day throughout the school year.

Prerequisites: none

Social Studies Department

Sean P. Hurley, District Chairperson of Social Studies



Grade 9	Global History & Geography I	<i>All incoming grade 9 students take this class.</i>
Grade 10	Global History & Geography II AP European History AP World History	<i>Regardless of the course taken, all students will be prepared for and must take the Global History & Geography Regents Examination in June.</i>
Grade 11	US History & Government (Social Issues) US History & Government (Constitutional Law) AP US History IB History of the Americas HL1	<i>Regardless of the course taken, all students will be prepared for and must take the U.S. History & Government Regents Examination in June.</i>
Grade 12	American Law Criminal Justice Environmental Team LEAD Urban Studies AP U.S. Government & Politics IB History of the Americas HL 2 IB Economics SL IB Social & Cultural Anthropology SL	<i>All students must take a Social Studies Course in Grade 12, regardless of any course taken as an elective in prior years.</i>
Elective Courses	Psychology IB Psychology SL Humanity in Crisis Pop Culture	<i>In addition to the elective course options presented here, students may also take the following courses as electives in grades 10 & 11:</i> American Law Criminal Justice Urban Studies IB Economics SL IB Social & Cultural Anthropology SL

Ninth Grade

GLOBAL HISTORY I

1 Unit 40 weeks (1001) NCAA Approved

This is the first year of a two-year sequence in the study of World History & Geography. Students will continue to develop the skills of the historian (e.g. gathering and interpreting evidence, employing chronological and geographic reasoning, and communicating conclusions) as well as literacy skills. The chronological study of early civilizations through the Age of Global Interaction (pre-history – 1700's) is explored through a thematic and conceptual approach.

Tenth Grade

This is the second year of the 2-year program in Global History. You may select one of the following courses:

GLOBAL HISTORY II

1 Unit 40 weeks (1003) NCAA Approved

This is the second year of a two-year program in Global History. The focus is on the interaction of the world from the 18th Century until the 21st Century. Students will focus on the following major developments:

Enlightenment, Age of Revolution, Industrialism, Nationalism, Imperialism, Totalitarianism and Global Problems affecting our society. The goal of the course is to help students understand the major connections in the development of the modern world. All students are required to take a Regents examination.

ADVANCED PLACEMENT

EUROPEAN HISTORY

1 Unit 40 weeks (1210) NCAA Approved

This is a college level study of the events, ideas and people that shaped Western Civilization from the late Middle Ages to modern times. Readings, lessons and discussions will prepare students to take the college credit Advanced Placement Test. A fifth credit elective for juniors and seniors, this class is also available to sophomores. A student must have an average of 90% in his/her Social Studies class, and the recommendation of the current Social Studies teacher, and complete a satisfactory writing sample. These requisites can be waived with special permission from the Social Studies Department Chairperson. All students who select this course will be expected to do a summer assignment. (NOTE: This course may be taken in place of Global History II.) After the Advanced Placement Exam in May, there will be special preparation for the Regents examination. The Advanced Placement Exam fee is approximately \$95 plus College Board Administrative Fee.



ADVANCED PLACEMENT

WORLD HISTORY

1 Unit 40 weeks (1213) NCAA Approved

This is a college-level course in history. AP World History offers an approach that allows students to do history by guiding them through the steps a historian would take in analyzing historical events and evidence worldwide over a millennium. This course offers a balanced global coverage with Asia, Africa, the Americas, and Europe each represented. Readings, lessons and discussions will prepare students to take the college credit Advanced Placement Test. A fifth credit elective for juniors and seniors, this class is also available to sophomores. A student must have a required average of 90% in his or her social studies class and the recommendation of the current social studies teacher and complete a satisfactory writing sample. These requisites may be waived with special permission from the Social Studies Department Chairperson. All students who select this course will be expected to do a summer assignment. (Note: This course may be taken in place of Global History II.) After the Advanced Placement examination in May, there will be special preparation for the Regents examination. The Advanced Placement examination fee is approximately \$95 plus College Board Administrative Fee.

Eleventh Grade

Eleventh grade involves a study of U.S. History and Government. The course begins with a brief introductory unit on Geography and its influence on U.S. History. Six major topics are studied: Constitutional Issues prior to 1865; the Industrialization of the United States (1865-1930); The Progressive Movement (1900-1930); At Home and Abroad, Depression and War (1917-1940); the U.S. in an Age of Global Crisis (1930-1954); a World in Uncertain Times (1950-present).

U.S. HISTORY AND GOVERNMENT THROUGH SOCIAL ISSUES

1 Unit 40 weeks (1100) NCAA Approved

This course focuses on U.S. History from a social perspective. Students examine how various individuals and groups have influenced the social, political and economic development of America today. (All students must take the Regents examination.)

U.S. HISTORY AND GOVERNMENT THROUGH CONSTITUTIONAL LAW

1 Unit 40 weeks (1102) NCAA Approved

This course focuses on how important constitutional issues influenced America throughout our history. Students examine how important constitutional cases reflect the social, political, and economic spirit of the times. (All students must take the Regents examination.)



ADVANCED PLACEMENT UNITED STATES HISTORY

1 Unit 40 weeks (1110) NCAA Approved

This is a college level course in history. It is a chronological American History course which will prepare students for intermediate and advanced college courses by making demands on them equivalent to those of an introductory college course. It will challenge students to employ the historian's skills through the preparation of a scholarly magazine and book review and a research assignment. A student should have an average of 90% in his/her Social Studies class and the recommendation of the current Social Studies teacher. All students who select this course will be expected to do a summer assignment. After the Advanced Placement Examination in May, there will be special preparation for the Regents. The fee is approximately \$95 plus College Board Administrative Fee.

IB HISTORY OF THE AMERICAS

11th Grade Higher Level

1 Unit 40 weeks (1114) NCAA Approved



IB History of the Americas 11 is the first course in a two-year program of advanced history studies. It combines a study of the history of the United States (which will prepare students for the NYS Regents exam) with a specific focus on key topics in Canadian and Latin American History. Major emphasis will be placed on extensive reading, writing and use of primary sources. All students who select this course will be expected to complete a summer assignment.

Prerequisite: Global History II or AP World or AP European History. In addition, students must take the U.S. History Regents exam.

Twelfth Grade

Four years of Social Studies is required for graduation. The fourth credit consists of Participation in Government and Economics. The goal of this twelfth year program in Social Studies is to prepare students to participate as citizens of a democratic society and to understand the theory and reality of our economic world.

There are many ways to learn how to participate in government and to learn about economics. You may select any one of these courses to fulfill the economics and participation-in-government requirements.

CRIMINAL JUSTICE (PARTICIPATION IN GOVERNMENT AND ECONOMICS)

1 Unit 40 weeks (1220) NCAA Approved

The course covers the entire criminal justice system from how laws are made through public policy to the effects of economics on crime and the penal system. The principles of government and economics are discussed. Types of crimes, criminal procedure from arrest to appeals, prosecutions against corporations, sensational and controversial topics and

Supreme Court cases are among the topics covered. Crimes from the extremely violent to the corporate are discussed. Topics such as legislative reform, the cost of the war on drugs, DWI penalties, hate crimes, insurance fraud, and the death penalty are analyzed. The economic factors which surround rehabilitation versus incarceration are debated. The course involves current events and court cases as well as a trip to the Suffolk County jail.

AMERICAN LAW (PARTICIPATION IN GOVERNMENT AND ECONOMICS)

1 Unit 40 weeks (1251) NCAA Approved

"We, the Jury, find the defendant . . ." Have you ever wondered what actually is involved with preparing and presenting a case in court? Have you ever wanted to be a lawyer or judge in a major criminal trial or civil lawsuit? If you answered "yes" to either or both questions, perhaps American Law is the class for you. In fact, this course will bring the law to life in our high school courtroom, and clearly demonstrate how greatly it influences all aspects of daily life. Areas of study include criminal law, trial practice, contracts, negligence, defamation of character, false imprisonment, family law, property law and educational law. Students will have the opportunity to actively participate in a number of legal experiences including our annual Law Day, mock trial competitions as well as trips to courts and law schools. College credit (LAW 111) is available through the Suffolk County Community College Excelsior Program.

LEAD (PARTICIPATION IN GOVERNMENT AND ECONOMICS)

1 Unit 40 weeks (1260)

Students will participate in government and understand basic economic concepts through leadership. Experiences will include cross-age peer teaching, the coordination of a statewide student ISSUE conference at Hofstra University and other activities involving the entire school community. Approximately five days will be needed for field trips. Admission to the course will be based upon teacher/administrator recommendations. This course is open to 12th graders only.

URBAN STUDIES (PARTICIPATION IN GOVERNMENT AND ECONOMICS)

1 Unit 40 weeks (1262) NCAA Approved

The prime example of government at work in this course is New York City. As one of the most complex political entities, as well as a most important economic hub, New York City provides an excellent opportunity to participate in government, as well as study basic economic ideas. Additionally, through the study of the City students will be learning important economic concepts such as consumer choice, supply and demand, the role of corporations, labor unions, domestic and global markets, and aspects of personal finance. Students will have the opportunity to participate in

field trips to New York City, where they will be able to participate in its rich cultural offerings. Students take a minimum of four field trips with a cost of approximately \$9.00 per trip. This course is open to 12th graders only.

IB HISTORY OF THE AMERICAS

12th Grade Higher Level

1 Unit 40 weeks (1276) NCAA Approved

History of the Americas is the second course in a two-year program of advanced history studies. Year two requires extensive research and study of three 20th century topics. Each of the topics will be considered through a selection of case studies. Political, social, economic, cultural, and gender issues will be integrated into each topic. Students will be expected to evaluate, interpret, and make use of source materials as historical evidence. All students who select this course will be expected to complete a summer assignment. This course requires a variety of IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year. *Prerequisite: IB History of the Americas 11*

ADVANCED PLACEMENT U.S. GOVERNMENT & POLITICS

1 Unit 40 weeks (1212) NCAA Approved

This course is designed to provide students with a learning experience equivalent to that obtained in most college introductory U.S. Government and Politics courses. The course involves both the study of general concepts used to interpret United States politics and the analysis of specific case studies. Students also evaluate the various institutions, groups, beliefs and the ideas that make up our political system. Additionally, the close relationship between politics and the economy means that students will be evaluating key economic concepts as they relate to U.S. government and politics such as fiscal and monetary policy, the role of the Federal Reserve, the federal budget process, foreign trade, as well as the overall role of the free market in our political system. Students will be expected to do challenging reading as well as closely evaluate and analyze the political developments in the nation. The Advanced Placement Examination will be given in May. A student must have a required average of 90% in his/her Social Studies class plus the recommendation of the current Social Studies teacher. Students enrolled in this course will be expected to do a summer assignment. These requisites can be waived with the special permission of the Social Studies Department Chairperson. Students enrolled in the course may apply one-half of the course credit if they are attempting to achieve the title of "AP Scholar". The Advanced Placement Exam fee is approximately \$95 plus College Board Administrative Fee.



IB ECONOMICS

11th or 12th Grade Standard Level

1 Unit 40 weeks (5813) NCAA Approved

This is a full-year IB course in the study of Economics. Economics plays a vital role in society. Understanding economic theories, ideas, and differing points of view is critical to understanding the influences on market behavior. Students will study Microeconomics, Macroeconomics, International Economics and Development Economics. Emphasis will be placed on the interconnection of the world economy. As part of their IB assessment, students will connect textbook material with current events and draw conclusions based on their knowledge. This course requires a variety of IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

IB SOCIAL AND CULTURAL ANTHROPOLOGY

"SCA" - 11th or 12th Grade Standard Level

1 Unit 40 Weeks (1120) NCAA Approved



In Social & Cultural Anthropology ("SCA") students will come to appreciate how anthropology as a discipline contributes to an understanding of contemporary issues, such as war and conflict, the environment, poverty, injustice, inequality and human and cultural rights. The study of social and cultural anthropology offers critical insight into the continuities as well as dynamics of social change and the development of societies, and challenges cultural assumptions. Areas of anthropological inquiry in this course are: belonging; classifying the world; communication, expression and technology; conflict; development; health, illness and healing; movement, time and space; production, exchange and consumption; and the body. These areas are explored through the key anthropological concepts of belief and knowledge, change, culture, identity, materiality, power, social relations, society, and symbolism. This course requires a variety of IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

Full Year Electives

PSYCHOLOGY

1 Unit 40 weeks (1270) NCAA Approved

Understanding ourselves is crucial to the evolution of all human beings. This introductory course will examine a variety of psychological topics. Human development, cognition, mental health and well-being, and human social patterns will be explored. In this interactive course, students will become involved in a variety of experiments and activities which promote the understanding of human behavior.

IB PSYCHOLOGY

11th or 12th Grade Standard Level

1 Unit 40 Weeks (1115) NCAA Approved



The IB Psychology course is a systematic study of behavior and mental processes. The course examines the interaction of biological, cognitive and sociocultural influences on human behavior. Students study and critically evaluate the knowledge, concepts, theories and research that have developed the understanding in these fields. The contribution and the interaction of the three approaches is understood through the four options in the course, focusing on areas of applied psychology: abnormal psychology, developmental psychology, health psychology, and the psychology of relationships. Students undertaking the course can expect to develop an understanding of how psychological knowledge is generated, developed and applied. This will allow them to develop a greater understanding of themselves and appreciate the diversity of human behavior. Students are expected to apply knowledge learned in the classroom and to specific lines of inquiry by conducting their own experimental study. This course requires a variety of external and internal IB assessments. The fee is established by the International Baccalaureate Organization and is approximately \$130. Payment is due in early October of the exam year.

HUMANITY IN CRISIS:

Examining Pivotal Events & Perspectives

1 Unit 40 weeks (1292) NCAA Approved

A thought-provoking course that dives deep into the critical issues shaping our world today. From the historical impacts of the Holocaust to contemporary struggles for human rights, this course encourages students to explore significant events and themes related to race, gender, and socio-political conflicts. Through engaging discussions, group projects, and reflective assignments, you'll develop essential critical thinking skills while analyzing the complexities of humanity's challenges. Whether you're passionate about activism, history, or social justice, this course will empower you to understand and address the pressing humanitarian issues of our time.

POP CULTURE:

Exploring Trends, Icons, and Influence

1 Unit 40 weeks (1293) NCAA Approved

This course will be offered in the 2025-26 school year and every other school year afterwards (2027-28, 2029-30...) only.

Students will dive into the vibrant world of pop culture, exploring the trends, icons, and influences that shape our society today. From the latest viral memes to the impact of sports legends and entertainment figures, the course offers a journey through the dynamic landscape of modern culture. Students will analyze how pop culture affects individual identities and societal norms, discuss the powerful role of media in shaping perceptions of race, gender, and politics, and evaluate the significance of sports and entertainment icons, and explore the relationship between social media and emerging trends while creating engaging projects that showcase their understanding of various pop culture phenomena.

Special Education

Allyson Gaiimo
Director of Secondary Special Education
631-262-6622

Northport High School provides a comprehensive continuum of educational services designed to support students with diverse learning needs. The goal of the Special Education Department is to teach students through an assessment and prescriptive process. The Committee on Special Education (CSE) determines eligibility for special education services, develops an Individualized Educational Program (IEP), and makes recommendations on the placement of students with disabilities in the least restrictive environment (LRE).

The High School Special Education Department offers the following continuum of services:

Related services are those that assist a student in benefiting from other special education services or assist the student in accessing the general curriculum. Related services means developmental, corrective, and other supportive services as are required to assist a student with a disability. These services may include but are not limited to speech-language pathology, audiology services, interpreting services, psychological services, physical therapy, occupational therapy, counseling services, orientation and mobility services, parent counseling and training, school nurse services, assistive technology services, as well as other appropriate support services.

Resource room program means a special education program for a student with a disability registered in either a special class or regular class who is in need of specialized supplementary instruction in an individual or small group setting for a portion of the school day.

Consultant teacher services means direct and/or indirect services provided to a student with a disability in the student's regular education classes and/or to such student's regular education teachers. Direct consultant teacher services means specially designed individualized or group instruction provided by a certified special education teacher to a student with a disability to aid such student to benefit from the student's regular education class. Indirect consultant teacher services means consultation provided by a certified special education teacher to regular education teachers to assist them in adjusting the learning environment and/or modifying their instructional methods to meet the individual needs of a student with a disability who attends their classes. Inclusion programs may also include integrated co-teaching services in its continuum. Integrated co-teaching services means the provision of specially designed instruction and academic instruction provided to a group of students with disabilities and nondisabled students.

Special class means a class consisting of students with disabilities who have been grouped together because of similar individual needs for the purpose of being provided specially designed instruction.

Adapted physical education means a specially designed program of developmental activities, games, sports and rhythms suited to the interests, capacities and limitations of students with disabilities who may not safely or successfully engage in unrestricted participation in the activities of the regular physical education program.

Technology and Engineering Education Department

David Storch
District Chairperson of Science & Technology and Engineering Education
631-262-6704



[Technology & Engineering Department Video Welcome & Overview](#)

[Technology & Engineering Department HyperDoc](#)

TECHNOLOGY & ENGINEERING EDUCATION encompasses the processes of critical thinking, analysis, and collaboration in which students integrate concepts in real world contexts of science, technology, engineering, and mathematics (STEM) fostering the development of skills and competencies for college, career, and life. Through activity, project, and problem-based curriculum, STEM education motivates and engages students to apply what they know, identify problems, design solutions, and lead their own learning. Students focus on the process as they learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through creativity and innovation. Technology & Engineering education courses help shape a student's future whether or not they plan to pursue STEM-related study after high school. Highly transferable STEM skills are increasingly recognized as a key driver of opportunity; graduates with practical and relevant STEM teachings embedded into their educational experiences will be in high demand in all job sectors. (*STEM 2026 – Department of Education*)

Technology and Engineering Education Course Offerings

Engineering ([Video Link](#))

[PLTW Intro to Engineering Design \(DDP\)](#)
PLTW Civil Engineering & Architecture
PLTW Computer Integrated Manufacturing
PLTW Principles of Engineering
PLTW Digital Electronics
PLTW Engineering Design and Development



Robotics* ([Video Link](#))

Information Technology ([Video Link](#))

[AoIT Modern Information Technology, Electronics & Coding \(MITEC\)](#)
AoIT/PLTW Introduction to Cybersecurity
Web Architecture & Development



Power/Transportation ([Video Link](#))

[Car Care I & II*](#)
Small Engines*
Transportation Systems*
Advanced Technology Studies+ (Power & Transportation)

Production/Materials ([Video Link](#))

[Woodworking Technology](#)
Furniture Making
Advanced Technology Studies+(Production & Materials)

*One semester courses (fall/spring)

Any student may enroll in one or more **Project Lead the Way (PLTW)** and/or **Academy of Information Technology (AoIT)** courses without challenging the full program.

PLTW Design & Drawing for Production (Introduction to Engineering Design) meets the Arts 1 credit requirement.

A student can earn three credits from Rochester Institute of Technology (RIT) in five PLTW courses. To qualify for college credit from RIT, students must have a class average of 85% or better and earn a score of C or higher on an externally assessed PLTW national examination. Students who are eligible to receive these credits will be required to apply through RIT at the conclusion of the course. The cost for each three credit course is approximately \$225.

A student can earn three college credits from SUNY Farmingdale in AoIT Introduction to Cybersecurity. Tuition is approximately \$140. Three college engineering credits are available for Project Advance (PA) Web Architecture & Development for a nominal tuition to Syracuse University at approximately \$115 per credit. +Advanced Technology Studies (ATS) – Courses are designed to enable students to continue further advanced study once all courses in a given Technology Education area have been completed.

ENGINEERING

Video Overview

ROBOTICS

½ Unit 20 weeks (7307) Grades 9-12

Video Overview

Robotics will introduce you to technology and coding with hands-on experiences using robots designed specifically for classroom and laboratory simulation. Robotics Engineering is designed to explore the past, current and future of automation technology in industry and everyday use. Students will receive a comprehensive overview of robotic systems and the subsystems that comprise them. Students will program several autonomous robots using RobotC and participate in class competitions and engineering challenges using the VEX EDR Robotics platform. Careers in robotics, programming, and engineering will be discussed.

This is an entry level course and there are no prerequisites.

PLTW DESIGN & DRAWING for PRODUCTION/ INTRODUCTION to ENGINEERING DESIGN

1 Unit 40 weeks (7800) Grades 9-12 [Video Link](#)

Offered in conjunction with *Project Lead the Way* and Rochester Institute of Technology, Design & Drawing for Production also known as Introduction to Engineering Design is a course where students learn how the engineering design process is used in industry to manufacture a product using three-dimensional solid models. Students will learn advanced solid modeling using state of the art computer-aided design (CAD) software including Inventor, Fusion 360, or OnShape. They will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. CNC Technologies including 3D Ultimaker printers, a Gantry Shopbot router, an Intelitek Milling machine, and a Trotec Laser Cutter/Engraver will bring the products to life for student testing and analysis.



This course meets the Arts requirement for graduation.

Students may elect to receive three credits from Rochester Institute of Technology by successfully completing an exam at the conclusion of the course. (Optional RIT registration fee – approximately \$225.00.)

PLTW CIVIL ENGINEERING AND ARCHITECTURE

1 Unit 40 weeks (7804) Grades 10-12

Offered in conjunction with *Project Lead the Way* and Rochester Institute of Technology, this course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing their interrelationship and dependence.



Students learn the fundamentals of building design, site design, and project development. They apply STEM practices to design both residential and commercial projects and document their work using 3D architectural design software. Students will develop skill in engineering calculations, technical representation, and documentation of design solutions according to accepted technical standards. CNC Technologies including 3D Ultimaker printers, a Gantry Shopbot router, an Intelitek Milling machine, and a Trotec Laser Cutter/Engraver will bring models to life for student testing and analysis.

Students may elect to receive three credits from Rochester Institute of Technology by successfully completing an exam at the conclusion of the course. (Optional RIT registration fee – approximately \$225.00.)

Prerequisites: Algebra I

PLTW COMPUTER INTEGRATED MANUFACTURING

1 Unit 40 weeks (7802) Grades 10-12

Offered in conjunction with *Project Lead the Way* and Rochester Institute of Technology, Computer Integrated Manufacturing (CIM) is the applied study of the principles of rapid prototyping, robotics, and automation. This course builds upon the computer solid modeling skills developed in PLTW Design & Drawing for Production. Students will use computer-controlled rapid prototyping and CNC equipment to solve problems by constructing actual models of their three dimensional designs. Students will also be introduced to the fundamentals of robotics and how this equipment is used in an automated manufacturing environment. Students will evaluate their design solutions using various techniques of analysis, and make appropriate modifications before producing their prototypes. Students apply knowledge gained throughout the course in a capstone project to build a manufacturing system. CNC Technologies including 3D Ultimaker printers, a Gantry Shopbot router, an Intelitek Milling machine, and a Trotec Laser Cutter/Engraver will bring the products to life for student testing and analysis.



Prerequisites: Algebra I

Students may elect to receive three credits from Rochester Institute of Technology by successfully completing an exam at the conclusion of the course. (Optional RIT registration fee – approximately \$225.00.)

PLTW PRINCIPLES OF ENGINEERING

1 Unit 40 weeks (7408) Grades 11-12

Offered in conjunction with *Project Lead the Way* and Rochester Institute of Technology, Principles of Engineering uses a hands-on laboratory approach to engage and challenge students to explore a broad range of engineering topics, including energy and power, the strength of materials and structures, automation and control systems, and statistics and kinematics. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. CNC Technologies including 3D Ultimaker printers, a Gantry Shopbot router, an Intelitek Milling machine, and a Trotec Laser Cutter/Engraver will bring models to life for student testing and analysis.



Students may elect to receive three credits from Rochester Institute of Technology by successfully completing an exam at the conclusion of the course. (Optional RIT registration fee – approximately \$225.00.)

Prerequisites: Algebra II, and 2 years of Regents Science

PLTW DIGITAL ELECTRONICS

1 Unit 40 weeks (7304) Grades *10-12



Offered in conjunction with *Project Lead the Way* and Rochester Institute of Technology, Digital Electronics is a course in applied logic that encompasses the application of electronic circuits and devices. State-of-the art computer simulation software is used to design and test digital circuitry prior to actually constructing them in order to test and analyze. The projects are traditional, such as those found in watches, digital cameras, and calculators to combinational logic using SSI chips to small subsystem implementation in programmable devices, such as small robots, in which you will learn how machines "think." You will also learn a systematic approach that engineers use to design the electronics that are used every day. Project-based learning emphasizes the exploration of concepts throughout the course.

*This is an entry-level course for students interested in pursuing engineering; *9th grade students can request approval from the Department Chairperson.*

Students may elect to receive three credits from Rochester Institute of Technology (RIT) by successfully completing an exam at the conclusion of the course (optional RIT registration fee – approximately \$225.00)

PLTW ENGINEERING - ENGINEERING DESIGN & DEVELOPMENT

1 Unit 40 weeks (7410) Grade 12



Offered in conjunction with *Project Lead the Way* (PTLW) and Rochester Institute of Technology, the knowledge and skills students acquire through PLTW Engineering come

together in an Engineering Design and Development (EDD) senior capstone course as they identify a real-world challenge and then research, design, and test a solution, ultimately presenting their project work to a panel of engineers. It is an open-ended engineering research course in which students work in teams to design and develop an original solution to a well-defined and justified problem by applying an engineering design process.

Prerequisites: One or more PLTW Engineering courses (PLTW Principles of Engineering is highly recommended) and Algebra II

INFORMATION TECHNOLOGY

Video Overview

AoIT MODERN INFORMATION TECHNOLOGY, ELECTRONICS & CODING (MITEC)

1 Unit 40 weeks (5817) Grades 9-12 [Video Link](#)

Modern Information Technology, Electronics & Coding (MITEC) is a dynamic and engaging course that offers students an in depth introduction to the world of information technology and computer science. This course is designed to equip students with the essential knowledge and skills to navigate our ever-evolving digital age and interconnected world. Key course highlights include coding fundamentals, transition to Python programming, artificial intelligence, computational thinking, and digital electronics.

Whether you aspire to become a software developer, engineer, or simply want to enhance your digital literacy and problem-solving abilities, MITEC is the gateway to a world of technological possibilities. MITEC students will access authentic industry standard tools and computer science software as they engage in real-world IT practices in a highly collaborative and project-based learning environment.

This course is a requirement of the AoIT Program, however, any student may enroll in and benefit from MITEC.

This is an entry level course and there are no prerequisites.

AOIT/PLTW INTRODUCTION TO CYBERSECURITY

1 Unit 40 weeks (5819)

In today's digital age, the importance of cybersecurity cannot be overstated. Offered in conjunction with Project Lead the Way (PLTW) Cybersecurity, this course is designed to equip students with the knowledge and skills necessary to identify cybersecurity threats, protect against them, detect intrusions, and respond effectively to cyberattacks. Through problem-based learning, students will engage in practical, hands-on activities and role-playing scenarios that simulate real-world cyber threats and incidents. They will train as cybersecurity experts, gaining invaluable experience in



assessing vulnerabilities, implementing security measures, and responding to security breaches. Cybersecurity encourages socially responsible choices and behavior in the digital realm, emphasizing the importance of ethical hacking and data handling.

This course is available for three college credits, to students in grades 10 - 12, through SUNY Farmingdale. Tuition is approximately \$140.

This course fulfills one credit of the AoIT Program, however, students do not need to be enrolled in the full AoIT program to take this course.

WEB ARCHITECTURE & DEVELOPMENT

1 Unit 40 weeks (7406) Grades 11-12

Offered in conjunction with Syracuse University's Project Advance (SUPA IST 263), this course combines entrepreneurial methods with real world projects covering the construction and publication of multimedia for the web. The course will incorporate a user-based approach to planning, design, implementation, and management in distributed network environments. Students will become proficient in HTML, CSS, PHP, and Javascript as front-end web developers to code a website and web app designs. Creating a basic webpage using HTML, styling all pages for consistency using CSS, and building interactivity into webpages using PHP and Javascript are the focal points for this course. Webpage creation practices, proper documentation, and user feasibility will be addressed. Following the course, students should have the ability and confidence to design and program a website for a small-to-medium sized business or organization.

Prerequisite: AP Computer Science Principles or instructor approval.

This course fulfills one credit of the AoIT Program, however, students do not need to be enrolled in the full AoIT program to take this course. Three college credits are available for a nominal tuition to Syracuse University (approximately \$115 per credit).

AUTOMOTIVE TECHNOLOGY

[Video Overview & Infographic](#)

CAR CARE I

½ Unit 20 weeks (7705) Grades 10-12

Car Care is for all young adults who will soon drive and own their own automobile. A simple and practical background understanding can help to make the experience of owning a car an enjoyable one. Car Care provides basic information using demonstrations on cars brought into the lab as well as lectures and group activities designed to make ownership as trouble-free and economical as possible. This course will fulfill state

requirements for the land transportation core course. *This is an entry level course and there are no prerequisites.*

CAR CARE II

½ Unit 20 weeks (7706) Grades 11-12

This course is designed for 11th and 12th grade students who have taken Car Care I and have an interest in advanced study in the automotive field. Through hands-on activities, students will explore the various systems and components of the modern automobile. Students will develop an understanding of the skills and knowledge of various aspects of the industry, which include repair facilities, customer relations, inventory control, and management. *Prerequisite: Car Care I*

SMALL ENGINES

½ Unit 20 weeks (7701) Grades 9-12

Small engines are today being used as a labor savings device to run lawn mowers, trimmers, chain saws, snow blowers, etc. Small engines are also used for recreation on dirt bikes, ATV's, jet skis and other marine applications. In this class you will have the opportunity to explore the mechanical operation of small engines by allowing you to repair, test, tune and troubleshoot various engines. You will be allowed to bring small engines, outboards, dirt bikes, ATV's and other engines from home as well as use the ones provided by the school.

This is an entry level course and there are no prerequisites.

TRANSPORTATION SYSTEMS

½ Unit 20 weeks (7703) Grades 9-12

The development of transportation vehicles and systems has had a tremendous impact on society. In this course, the students will explore the three main transportation systems: land, marine and aerospace. Through activities and demonstrations, the students will investigate systems and the equipment used to operate and control small engines, automobiles, aircraft, rockets, boats, submersibles and automated systems. A registration fee of \$20 is required in order for the student to complete the United States Power Squadrons America's Boating Safety Course and licensing exam.

This is an entry level course and there are no prerequisites.

WOODWORKING TECHNOLOGY

[Video Overview & Infographic](#)

WOODWORKING TECHNOLOGY

1 Unit 40 weeks (7900) Grades 9-12

Woodworking Technology is a hands-on course where students acquire skills using tools and machines to design and construct individual projects. Students will explore the basics of drafting, measuring, joinery, finishing and safety as well as areas of laminating and bending, protective coatings and refinishing, turning and carving, wood and plastic laminates, small construction, and the nature and properties of wood. Advanced computer numerical control (CNC) equipment including a large

Gantry ShopBot Router and a Trotec Precision Laser Cutter/Engraver allow students to engage in compelling, real-world challenges with state-of-the-art technology. Emphasis is placed on the safety and use of tools and power equipment.

This is an entry level course and there are no prerequisites.

FURNITURE MAKING

1 Unit 40 weeks (7902) Grades 10-12

Furniture Making is an advanced course directed at students who have developed basic skills in woodworking and who wish to explore more challenging projects. Each student selects from projects that are designed to allow more advanced hand tool, machine, and computer numerical control (CNC) equipment.

Through the construction of projects, students will explore furniture design, develop skills in cabinet making, become well-informed consumers and proficient in the use of all woodworking machines and available CNC technology.

Prerequisite: Woodworking Technology

ADVANCED TECHNOLOGY STUDIES (ATS)

ATS Power & Transportation - Car Care III (7912)

ATS Production & Materials - Adv. Wood Tech (7913)

1 Unit 40 weeks Grades 10-12

Advanced Technology Studies (ATS) – Courses in Power & Transportation or Production & Materials are designed to enable students to continue further advanced study once all courses in a given Technology Education area (automotive or woodworking) have been completed.

World Languages

Jennifer Nesfield
District Chairperson of World Languages and ENL
631-262-6684

The increasing economic, political, and cultural interdependence of all nations requires a greater understanding of the world in which we live. The ability to communicate in a language other than English is an important component of a global perspective, for language is our connection to our community and to the world. Learning a second language provides a unique opportunity to gain access to other people. It is therefore the department's philosophy that all students should study a world language during their high school careers in order to communicate effectively in our interdependent world. In addition, students may eventually choose a career in which the ability to communicate in a second language will be a key asset.

Learning to communicate in a second language is the cumulative result of all previous instruction. The Northport High School world language program provides students with the opportunity to build to an advanced level of proficiency in French, Spanish, and/or Italian through five-credit sequences which begins in the 6th grade.

Students planning to attend college should check the requirements of individual schools regarding world language entrance and/or degree requirements, since many universities indicate the need for students to obtain a specific number of credits in the same language during their high school careers. This will allow students to select the best possible plan for courses and sequences in a world language.

Note: All levels of languages offered may be combined to ensure acceptable enrollments

Concentration in Spanish

Grade	3-Credit Sequence	Regents Extended Sequence	5-Credit Regents Sequence
7	Spanish 7	Spanish 7	Spanish 7
8	Spanish 8*	Spanish 1A or Spanish 8*	Spanish 8*
9	Spanish 2R	Spanish 1B or Spanish 2RE	Spanish 2R
10	Spanish 3R**	Spanish 2RE or Spanish 3RE (Regents Extended)	Spanish 3R**
11		Spanish 3RE or Spanish 4RE** (Regents Extended)	IB Spanish 4 or Advanced Spanish Lang. and Culture 4
12		Spanish 4RE (Regents. Extended)	IB Spanish 5 or AP Spanish or Adv. Span. Lang. and Culture 5

* Students are required to take the FLACS A exam when they complete Spanish 8.

**Students are required to take the FLACS B exam when they complete the Level 3R or 4RE course. Students in level 3RE may opt to challenge the FLACS B Exam in addition to a final examination in order to complete their 3 year sequence in a World Language. If successful, they would be eligible to register for the Advanced Lang. and Culture 4 class.

SEQUENCE FOR STUDENTS WHO START SPANISH IN THE 7th OR 8th GRADE:

SPANISH 1B

1 Unit 40 weeks (4201) NCAA Approved

This course is a continuation of the course taught at the Middle School, Level 1A Spanish. It is designed to meet the New York State Checkpoint A standards. Students will continue to develop their reading, listening, speaking and writing skills. A locally developed final assessment will be administered at the end of this course. Students who successfully complete the course will be eligible to enroll in the Spanish Level 2RE (Regents Extended) course.

Note: The final grade in Spanish 1B at Northport High School will be averaged in with the final grade from Spanish 1A at the middle school level when calculating the overall grade for the combined Spanish 8/9 course. The 8/9 grade will be the grade that appears on the student's transcript.

Prerequisite: Spanish 1A

SPANISH 2R (REGENTS)

1 Unit 40 weeks (4221) NCAA Approved

This course is a continuation of the Spanish Regents sequence. Students will expand and strengthen their speaking, listening, reading and writing skills in the target language.

Upon completion of this course, students are eligible to enroll in Spanish 3R. Students may also select, as an alternative, the Spanish 3RE (Regents Extended) course, which represents an opportunity to develop stronger skills with an additional year of practice, before taking Spanish 4RE (Regents Extended).

Prerequisite: Spanish 7/8

SPANISH 3R (REGENTS)

1 Unit 40 weeks (4206) NCAA Approved

This course follows Spanish 2R. It is an intermediate-level course designed to meet the New York State Checkpoint B standards. Students' control of grammatical structures is expanded and strengthened to facilitate reading and writing. The course includes an exploration of the life and culture of Spanish speaking people. The final assessment in this course is the Regional FLACS Checkpoint B Assessment. This course is one of the pathways to be granted an Advanced Regents Diploma.

Prerequisites: Spanish 2R (Regents).

ADVANCED SPANISH LANGUAGE AND CULTURE LEVEL 4

1 Unit 40 weeks (4212) NCAA Approved

This course is designed for students who want to continue building their proficiency levels in the four language skills: listening, reading, speaking and writing. Emphasis will be placed on a variety of activities which link students to Spanish speaking countries. Newspapers, Internet, magazines, television programs and movie clips will be used to help make students aware of current events along with social and cultural issues of importance. Upon successful completion of

Advanced Spanish Language and Culture Level 4, students are encouraged to enter Advanced Spanish Language and Culture Level 5; however they will **not** be allowed to enter Spanish 5 IB/AP Spanish.

Note: This course will not receive the high school weighting status.

Prerequisite: Successful completion of Spanish 3R or Spanish 4RE.

IB SPANISH 4

1 Unit 40 weeks (4211) NCAA Approved 11th Grade



IB Spanish 4 is the first course in a two-year program of advanced Spanish studies. The course's goals will be to increase the student's ability to understand, read, speak, write the language with grammatical accuracy and at appropriate and varied registers, as well as develop an understanding of the cultures of the countries where the language is spoken. Students will become acquainted with world literature, arts and sciences, social trends and world problems. The course of study will provide opportunity for enjoyment, creativity and intellectual stimulation. Through this study students will broaden their horizons and become proficient language speakers and educated citizens of the global community. Upon successful completion of this course, students will enter either IB/AP Spanish 5.

Prerequisites: Spanish 3R or 4LC

IB SPANISH 5 Standard or Higher Level

1 Unit 40 weeks (4214) NCAA Approved 12th Grade



IB/AP Spanish 5 is the second course in a two-year program of advanced Spanish studies. The curriculum of this course will prepare students for the Spanish IB Language B assessments. Students should have a good command of structural patterns and considerable competence in listening, speaking, reading and writing. Please see the course description for IB Spanish 4. Students will choose between the Standard and Higher Level in the fall, after conferencing with their instructor. This course requires students to take the IB assessment and/or AP Exam. The fee is established by the International Baccalaureate Organization and the College Board. Payment for the IB examination is due in early October of the exam year, and is approximately \$130. Based upon course enrollments, the AP Spanish course will be co-seated with IB Spanish 5.

Prerequisite: IB Spanish 4

ADVANCED SPANISH LANGUAGE AND CULTURE

LEVEL 5

1 Unit 40 Weeks (4213) NCAA Approved

This course is a continuation of Advanced Spanish Language and Culture Level 4 and is designed for students who want to continue building their proficiency levels in the four language skills: listening, reading, speaking and writing. Emphasis will be placed on a variety of activities which link students to Spanish-speaking countries. Newspapers, Internet, magazines, television programs, and movie clips will be used to help make students aware of current events along with social and cultural issues of importance.

Note: This course will not receive the high school weighting status.

Prerequisite: Successful completion of Advanced Spanish Language and Culture Level 4 or Spanish 4IB.

AP SPANISH

1 Unit 40 weeks (4210) NCAA Approved



A course intended for seniors who have completed Spanish 4 IB and who already have a strong command of structural patterns and considerable competence in listening, speaking, reading, and writing. AP Spanish will help those students to continue to develop their proficiency in the language, as well as prepare for the AP Spanish Language Examination.

Classes are conducted in Spanish and will emphasize advanced reading, writing, and speaking skills. Students will gain deeper insights into the culture and contributions of Hispanic civilization and its impact on today's society. Based on course enrollments, AP Spanish will be co-seated with IB Spanish 5.

The AP exam is required; the fee is approximately \$95.

Prerequisite: IB Spanish 4

EXTENDED SEQUENCE AND ELECTIVE CLASS IN SPANISH

SPANISH 2RE (REGENTS EXTENDED)

1 Unit 40 weeks (4203) NCAA Approved

A continuation of Spanish 7/8 or 1 which gives students the opportunity to practice and improve their speaking skills through the use of dialogues and conversations from everyday life, and to expand their reading and writing skills as well. Cultural topics are included throughout the course to reflect the lifestyles of the people in Spanish speaking countries. After completing Spanish 2RE (Regents Extended), students are eligible to enroll in Spanish 3RE (Regents Extended), not Spanish 3R (Regents).

Prerequisite: Spanish 7/8 or Spanish 8/9

SPANISH 3RE (REGENTS EXTENDED)

1 Unit 40 weeks (4205) NCAA Approved

Students who have completed Spanish 2RE (Regents Extended), or Spanish 2R (Regents) may take Spanish 3RE (Regents Extended) in order to gain an additional year of practice before taking Spanish 4RE, the Regents level course. Spanish 3RE (Regents Extended) includes practice in reading, writing, listening and speaking. Speaking practice will focus on real-life "survival" situations as encountered in the foreign country. Practice activities involve learning to use vocabulary related to social situations, travel, business, and other career areas. Reading from magazines and newspapers is used in building vocabulary and improving reading skills.

This course does not necessarily complete a Regents sequence. After completing the 3RE course, students will be given the option to challenge the FLACS B Exam. If they pass the FLACS B Exam, they will have completed their Regents sequence. If they fail the FLACS B exam, students are **required** to enroll in Spanish 4RE (Regents Extended).

Prerequisite: Spanish 2R (Regents) or Spanish 2RE (Regents Extended)

SPANISH 4RE (REGENTS EXTENDED)

1 Unit 40 weeks (4209) NCAA Approved

This course follows Spanish 3RE (Regents Extended) and has the similar content and skill development as Spanish 3R (Regents). This course allows students to fulfill one of the pathways to be granted an Advanced Regents diploma. The final examination is the Regional Checkpoint B Assessment. Students who complete this course successfully are eligible and encouraged to continue in Advanced Spanish Language and Culture Level 4.

Prerequisites: Spanish 3R or Spanish 3RE (Regents Extended)

Concentration in French

Grade	3-Credit Sequence	Regents Extended Sequence	5-Credit Regents Sequence
7	French 7	French 7	French 7
8	French 8*	French 8*	French 8*
9	French 2R	French 2RE (Regents Extended)	French 2R
10	French 3R**	French 3RE (Regents Extended)	French 3R**
11		French 4RE (Regents Extended)**	IB French 4 or Advanced French Language and Culture Level 4
12			IB/ IB/AP French 5 or Advanced French Language and Culture Level 5

* Students are required to take the FLACS A exam when they complete French 8.

**Students are required to take the FLACS B exam when they complete the Level 3R or 4RE course. Students in level 3RE may opt to challenge the FLACS B Exam in addition to a final examination in order to complete their 3 year sequence in a World Language. If successful on the FLACS B exam, they would be eligible to register for the Advanced Lang. and Culture 4 class.

SEQUENCE FOR STUDENTS WHO STARTED FRENCH IN THE 7th GRADE:

FRENCH 2R (REGENTS)

1 Unit 40 weeks (4021) NCAA Approved

This is a continuation of the French Regents sequence. Students will expand and strengthen their speaking, listening, reading and writing skills. Upon completion of this course, students are eligible to enroll in French 3R (Regents). Students may also select, as an alternative, the French 3RE (Regents Extended) course, which represents an opportunity to develop stronger skills during an additional year of practice, before taking French 4RE (Regents Extended).

Prerequisite: French 7/8

FRENCH 3R (REGENTS)

1 Unit 40 weeks (4006) NCAA Approved

This course follows French 2R (Regents). It is an intermediate level course designed to meet the NYS Checkpoint B standards. Students' control of grammatical structure is expanded and strengthened to facilitate reading and writing. The course includes an exploration of the life and culture of the people of the target culture. The final examination in this course is the FLACS Checkpoint B Assessment. This course satisfies one of the pathways to be granted the Advanced Regents Diploma.

Prerequisite: French 2R (Regents).

ADVANCED FRENCH LANGUAGE AND CULTURE LEVEL 4

1 Unit 40 Weeks (4015) NCAA Approved

This course is designed for students who want to continue building their proficiency levels in the four language skills: listening, reading, speaking, and writing. Newspapers, Internet, magazines, television programs, websites and movie clips will be used to help make students aware of current events along with social and cultural issues of importance.

Note: This course will not receive the high school weighting status. Students will not be allowed to enter French 5 IB/AP upon successful completion of Advanced French Language and Culture Level 4.

Prerequisite: Successful completion of French 3R or French 4RE.

IB FRENCH 4

1 Unit 40 weeks (4011) NCAA Approved
11th Grade

IB French 4 is the first course in a two-year program of advanced French studies. The course's goals will be to increase the student's ability to understand, read, speak, write the language with grammatical accuracy and at appropriate and varied registers, as well as develop an understanding of the cultures of



the countries where the language is spoken. Students will become acquainted with world literature, arts and sciences, social trends and world problems. The course of study will provide opportunity for enjoyment, creativity and intellectual stimulation. Through this study students will broaden their horizons and become proficient language speakers and educated citizens of the global community. Upon successful completion of this course, students can enter IB/AP French 5.

Prerequisites: French 3R or 4LC

IB/AP FRENCH 5 Standard or Higher Level

1 Unit 40 weeks (4013) NCAA Approved
12th Grade

IB/AP French 5 is the second course in a two-year program of advanced French studies. The curriculum of this course will prepare students for the French IB Language B assessments and/or the AP exam in French Language. Students should have a good command of structural patterns and considerable competence in listening, speaking, reading and writing. Please see the course description for IB French 4. Students will choose between the Standard and Higher Level in the fall, after conferencing with their instructor. This course requires the IB and/or AP assessment. The fees are established by the International Baccalaureate Organization and the College Board. Payment for the IB examination is due in early October of the exam year, and is approximately \$130. The AP exam fee is approximately \$95.00.

Prerequisite: IB French 4

ADVANCED FRENCH LANGUAGE AND CULTURE LEVEL 5

1 Unit 40 Weeks (4017) NCAA Approved

This course is a continuation of Advanced French Language and Culture Level 4 and is designed for students who want to continue building their proficiency levels in the four language skills: listening, reading, speaking, and writing. Emphasis will be placed on a variety of activities which link students to various Francophone nations, including web based and internet projects. Newspapers, magazines, television programs, websites and movies will be used to make students aware of current events along with social and cultural issues of importance. Note: This course will not receive the high school weighting status.

Prerequisite: Successful completion of Advanced French Language and Culture Level 4 or IB French 4.

EXTENDED SEQUENCE AND ELECTIVE CLASS IN FRENCH

FRENCH 2RE (REGENTS EXTENDED)

1 Unit 40 weeks (4003) NCAA Approved

A continuation of French 7/8 which gives students the opportunity to practice and improve their speaking skills through the use of dialogues and conversations from everyday life, and to expand your reading and writing skills as well. Cultural topics are included throughout the course to reflect the lifestyles of the people in French-speaking countries. After completing French 2RE (Regents Extended), students are eligible to enroll in French 3RE (Regents Extended), not French 3R (Regents).

Prerequisite: French 7/8

FRENCH 3RE (REGENTS EXTENDED)

1 Unit 40 weeks (4005) NCAA Approved

This course is an alternative for students who have completed French 7/8 and French 2R (Regents) but wish to develop stronger skills through an additional year of practice before the Regents course and Regents examination. French 3RE (Regents Extended) includes practice in reading, writing, listening, and speaking.

Speaking practice and increased confidence and comprehension are emphasized, by means of small group conversations in "real-life" situations. Readings from contemporary sources help increase comprehension, and expand practical vocabulary in a variety of areas, including travel and careers. Films, recordings, and other media aids provide students with the opportunity to become better acquainted with French cultural patterns and the French people.

This course does not necessarily complete a Regents sequence. After completing the 3RE course, students will be given the option to take the FLACS B Exam in addition to the course final. If they pass the FLACS B Exam, they will have completed their Regents sequence. If they fail the FLACS B exam, students are **required** to enroll in French 4RE (Regents Extended).

Prerequisite: French 2R (Regents) or French 2RE (Regents Extended)

FRENCH 4RE (REGENTS EXTENDED)

1 Unit 40 weeks (4007) NCAA Approved

This course follows French 3RE (Regents Extended) and has the same content and skill development as French 3R (Regents). This course satisfies one of the pathways to be granted an Advanced Regents Diploma. The final examination is the Comprehensive FLACS B Exam.

Students who complete this course successfully are eligible and encouraged to continue to Advanced French Language and Culture 4.

Prerequisite: French 3R or French 3RE (Regents Extended)

Concentration in Italian

7	Italian 7	Italian 7	Italian 7
8	Italian 8*	Italian 8*	Italian 8*
9	Italian 2R	Italian 2RE (Reg. Extended)	Italian 2R
10	Italian 3R**	Italian 3RE (Reg. Extended)	Italian 3R*
11		Italian 4RE (Reg. Extended)**	IB Italian 4 or Adv. Italian Language and Culture Level 4
12			IB/AP Italian 5 or Advanced Italian Language and Culture Level 5

* Students are required to take the FLACS A exam when the complete Italian 8.

**Students are required to take the FLACS B exam when they complete the Level 3R or 4RE course. Students in level 3RE may opt to challenge the FLACS B Exam in addition to a final examination in order to complete their 3 year sequence in a World Language. If successful on the FLACS B exam, they would be eligible to register for the Advanced Lang. and Culture 4 class.

SEQUENCE FOR STUDENTS WHO STARTED ITALIAN IN THE 7th GRADE:

ITALIAN 2R (REGENTS)

1 Unit 40 weeks (4319) NCAA Approved

This course is a continuation of the Italian Regents sequence. Students will expand and strengthen their speaking, listening, reading and writing skills. Upon completion of this course, students are eligible to enroll in Italian 3R (Regents). Students may also select, as an alternative, the Italian 3RE(Regents Extended) course, which represents an opportunity to develop stronger skills during an additional year of practice, before taking Italian 4RE (Regents Extended).

Prerequisite: Italian 7/8

ITALIAN 3R (REGENTS)

1 Unit 40 weeks (4306) NCAA Approved

This course follows Italian 2R (Regents). It is an intermediate-level course designed to meet the New York State Checkpoint B standards. Students' control of grammatical structures is expanded and strengthened to facilitate listening, speaking, reading and writing. The course includes an exploration of the life and culture of the people. The final examination in this course is the Regional Checkpoint B Assessment. This course can be used as one of the pathways to the Advanced Regents Diploma.

Prerequisite: Italian 2R (Regents).

ADVANCED ITALIAN LANGUAGE AND CULTURE LEVEL 4

1 Unit 40 weeks (4311) NCAA Approved

This course is designed for students who want to continue building their proficiency levels in the four language skills: listening, reading, speaking and writing. Newspapers, Internet, magazines, websites, television programs and movie clips will be used to help make students aware of current events along with social and cultural issues of importance. Students will be encouraged to enter Advanced Italian Language and Culture Level 5; however will not be allowed to enter Italian 5IB or AP Italian upon successful completion of Advanced Italian Language and Culture Level 4.

Prerequisite: Successful completion of Italian 3R or Italian 4RE. Students may enter Advanced Language and Culture 5 or IB Italian 4 IB after they have passed Advanced Italian Language and Culture Level 4.

Note: This course will not receive the high school weighting status

IB ITALIAN 4

1 Unit 40 weeks (4309) NCAA Approved
11th Grade



IB Italian 4 is the first course in a two-year program of advanced Italian studies. The course's goals will be to increase the students' ability to understand, read, speak, write the language with grammatical accuracy and at appropriate and varied registers, as well as develop an understanding of the cultures of the countries where the language is spoken. Students will become acquainted with world literature, arts

and sciences, social trends and world problems. The course of study will provide opportunity for enjoyment, creativity and intellectual stimulation. Through this study students will broaden their horizons and become proficient language speakers and educated citizens of the global community. Upon successful completion of this course, students will enter IB Italian 5.

Prerequisites: Italian 3R or 4LC

IB/AP ITALIAN 5 Standard or Higher Level

1 Unit 40 weeks (4334) NCAA Approved

12TH GRADE



IB/AP Italian 5 is the second course in a two-year program of advanced Italian studies. The curriculum of this course will prepare students for the Italian IB Language B assessments and/or AP Exam. Students should have a good command of structural patterns and considerable competence in listening, speaking, reading and writing. Please see the course description for IB Italian 4. Students will choose between the Standard and Higher Level in the fall, after conferencing with their instructor. This course requires the IB assessment and/or the AP Exam. The fees are established by the International Baccalaureate Organization. Payment for the IB examination is due in early October of the exam year, and is approximately \$130. The AP exam fee is approximately \$95.

Prerequisite: IB Italian 4

ADVANCED ITALIAN LANGUAGE AND CULTURE

LEVEL 5

1 Unit 40 Weeks (4338) NCAA Approved

This course is a continuation of Advanced Italian Language and Culture 4 and is designed for students who want to continue building their proficiency levels in the four language skills: listening, reading, speaking and writing. Emphasis will be placed on a variety of activities which link students to Italy. Newspapers, magazines, Internet, websites, television programs and movie clips will be used to help make students aware of current events along with social and cultural issues of importance.

Note: This course will not receive the high school weighting status.

Prerequisite: Successful completion of Advanced Italian Language and Culture Level 4 or Italian 4 IB.

ITALIAN 2RE (REGENTS EXTENDED)

1 Unit 40 weeks (4301) NCAA Approved

A continuation of Italian 7/8 which gives you the opportunity to practice and improve your speaking skills through the use of dialogues and conversations from everyday life, and to expand your reading and writing skills as well. Cultural topics are included throughout the course to reflect the lifestyles of the people in Italy. After completing Italian 2RE (Regents Extended), students are eligible to enroll in Italian 3RE (Regents Extended), not Italian 3R (Regents).

Prerequisite: Italian 7/8

ITALIAN 3RE (REGENTS EXTENDED)

1 Unit 40 weeks (4303) NCAA Approved

This course follows Italian 2RE (Regents Extended). In addition, students who have completed Italian 1 and Italian 2R (Regents) may take Italian 3RE (Regents Extended) in order to gain an additional year of practice before taking the Regional Checkpoint B Assessment. Italian 3RE (Regents Extended) includes practice in reading, writing, listening, and speaking. Speaking practice will focus on real-life "survival" situations such as might be encountered in conversations with Italian-speaking persons or in traveling in a foreign country. Practice activities involve learning to use practical vocabulary related to social situations, travel, business, and other career areas. Readings from magazines and newspapers are used in building vocabulary and improving reading skills.

This course does not necessarily complete a Regents sequence. After completing the 3RE course, students will be given the option to challenge the FLACS B Exam. If they pass the FLACS B Exam, they will have completed their Regents sequence. If they fail the FLACS B exam, students are **required** to enroll in Italian 4RE (Regents Extended).

Prerequisite: Italian 2RE (Regents Extended) or Italian 2R (Regents)

ITALIAN 4RE (REGENTS EXTENDED)

1 Unit 40 weeks (4307) NCAA Approved

This course follows Italian 3RE (Regents Extended) and has similar content and skill development as Italian 3R (Regents). The completion of this course satisfies one of the pathways to be granted an Advanced Regents Diploma. The final examination is the Comprehensive Italian FLACS B Exam. Students who complete this course successfully are eligible to enroll in Advanced Italian Language Culture Level 4.

Prerequisite: Italian 3R or Italian 3RE (Regents Extended)

Notice to Students Who Wish to Take the Regional assessment in Modern Greek or Hebrew:

1. You must first apply, indicating your intent to sit for the Modern Greek or Hebrew Regents examination, at least six months in advance of the examination date; AND,
2. Receive prior approval from the Northport High School Principal stating the parameters by which credit will be granted at least six months in advance of the examination date; AND,
3. Provide information to the World Languages Department Chairperson as to the location where you plan to sit for the exam; and,
4. Provide the Northport-East Northport School District with documentation that proves the student participated in 180

minutes per week of instruction for 40 weeks in each of three years.

5. A decision to award elective credit will be made by the public school Principal and will be based on the student achieving a score of at least 85% on a state-developed or state-approved examination.

ENGLISH AS A NEW LANGUAGE

These are New York State mandated courses for all students eligible for services based on the results on the NYSITELL (New York State Identification Test for English Language Learners) and/or the NYSESLAT (New York State English as a Second Language Achievement Test).

ENL CONTENT - EE (691)

This course is designed for beginners of the English language (entering and emerging level students). The course is designed to introduce the English as a New Language student to the grammar, usage, vocabulary and sentence structure of the English language. Instruction emphasizes English speaking and listening comprehension. Reading and guided writing are also introduced. Placement in this course is determined by the student score on the NYSITELL or NYSESLAT exam.

ENL CONTENT - INTERMEDIATE (692)

This course is designed to continue instruction in oral communication for the transitioning and expanding level English Language Learners. Instruction includes grammar, usage, and vocabulary and sentence structure. Reading, writing, speaking and listening skills are integrated through the use of adaptations of authentic literature along with materials from the various subject areas. All students are required to take the New York State English as a Second Language Achievement Test.

ENL/ENG BEGINNER (702)

1 Unit - 40 weeks

Entering and Emerging English Language Learners will receive integrated ELA instruction in the four language skills: listening, speaking, reading and writing while meeting the NYS/ELA Learning Standards. Students will use adapted resources as well as materials from mainstream ELA classes.

ENL/ENG INTERMEDIATE (703)

1 Unit - 40 weeks

Emerging and Transitioning English Language Learners will receive integrated ELA instruction in the four language skills: listening, speaking, reading and writing while meeting the NYS/ELA Learning Standards. Students will use adapted resources as well as materials from mainstream ELA classes.

ENL/ENG ADVANCED (704)

Transitioning and expanding ELLs will receive integrated ELA instruction while meeting the NYS/ELA Learning Standards.

INTEGRATED ELA / CONTENT COURSES

These integrated and SIOP courses are designed for English Language Learners at the entering, emerging, transitioning, and expanding levels. Integrated courses are created to meet the grade and ability levels of the students enrolled in the ENL program. Courses have been created in ELA (i.e. L—E-40), Math (i.e. 3554), Social Studies (i.e. L-1001 and L-1003), and Science (i.e. L-2019) with the possibility of additional integrated courses to be mandated based on the ELL student needs.

ENL BASIC READING

1 Unit - 40 weeks (706)

In this course, students will be exposed to skills and strategies that will help them read and comprehend English. Instruction in this class will focus on phonological sequencing to build a foundation of sounds, syllables, words, and sentences. There will be opportunities to learn and understand new vocabulary, speak and write, and read a variety of text in English. This is a full year course. It is graded “pass/fail.”

ENL INTERMEDIATE READING (705)

In this class, students will be exposed to additional skills and strategies that enable them to read more complex text and learn the strategies necessary to decode and understand print. This is a full year and will be graded as “pass/fail”.

Prerequisite: Completion of the ENL Basic Reading course (706).

New York State Diploma Requirements Applicable to All Students Enrolled in Grades 9-12

Credit Requirements

(Apply to all diploma types: local, Regents,
Regents with advanced designation)

	Minimum number of credits
English	4
Social Studies <i>Distributed as follows:</i> U.S. History (1) Global History and Geography (2) Participation in Government (½) Economics (½)	4
Science <i>Distributed as follows:</i> Life Science (1) Physical Science (1) Life Science or Physical Science (1)	3
Mathematics	3
World Languages	1 ^(**)
Visual Art, Music, Dance, and/or Theater	1
Physical Education (participation each semester)	2
Health	½
Electives	3 ½
Total	22

^(**)Students with a disability may be excused from the requirement for 1 unit of credit in World Languages if so indicated on their IEP, but they must still earn 22 units of credit to graduate.

1.) **Pathways**

A student must either:

- earn the Seal of Civic Readiness; or
- pass an additional Regents Exam or Department Approved Alternative in a different course (English, mathematics, science, or social studies); or
- pass a Department Approved Pathway Assessment (Arts, CDOS, World Languages); or
- successfully complete a NYSED-approved CTE program, including the associated 3-part technical assessment; or
- successfully complete all the requirements for earning the CDOS Commencement Credential.

Beginning in fall 2022, a select number of NYS schools will pilot the Individual Arts Assessment Pathway (IAAP). Reference Multiple Pathways and Department Approved Alternative Examinations.

2.) **Traditional Appeals**

All appeals are subject to local district approval. Reference: Appeals, Safety Nets, and Superintendent Determination

3.) **Special Endorsements**

Honors: A student earns a computed average of at least 90 on the Regents Exams applicable to either a Regents diploma or a Regents diploma with advanced designation. No more than 2 Department approved alternatives can be substituted for Regents Exams. The locally developed Checkpoint B examination in World Languages is not included in the calculation.

Mastery in Math and/or Science: A student meets all the requirements for a Regents diploma with advanced designation AND earns a score of 85 or better on 3 math Regents Exams and/or 3 science Regents Exams.

Technical Endorsement: A student meets the requirements for either a local diploma, a Regents diploma or a Regents diploma with advanced designation AND successfully completes a Department approved CTE program including the 3-part technical assessment.

Seal of Biliteracy: A student meets the criteria for earning the NYS Seal of Biliteracy.

Seal of Civic Readiness: A student meets the criteria for earning the NYS Seal of Civic Readiness.

Reference the Endorsements and Seals webpage or NYS Diploma/Credential Requirements for additional information related to awarding special endorsements to students with exam exemptions due to COVID-19.

4.) **World Languages Exemption**

Students with a disability may be excused from the required units of credit in World Languages if so indicated on their IEP, but they must still earn 22 units of credit to graduate. Such student who seeks a Regents diploma with advanced designation does NOT have to complete the 5-unit sequence in the Arts or CTE in lieu of the sequence in World Languages in order to meet the assessment requirements for the advanced diploma.

5.) **Superintendent Determination of a Local Diploma**

Students with a disability who are unable to attain a local diploma through the various safety net provisions may be eligible for a Superintendent Determination of a local diploma under certain conditions. Reference: Appeals, Safety Nets, and Superintendent Determination

6.) **Flexibilities due to the COVID-19 Public Health Emergency**

Exemptions: Students granted an exemption from any exam due to COVID-19 are not required to pass such specific exam to meet the assessment requirements for any diploma type. Reference the following FAQs: June/August 2020, January 2021, June/August 2021, and January 2022

Special Appeals: Eligible students may use lower scores (50-64) on Regents Exams taken during the 2021-22 or 2022-23 school year to meet the assessment requirements for any diploma type. Reference: Special Appeals Memo and FAQ.

Special Determination: Students who are scheduled to graduate in **June 2022** and either do not qualify for a Special Appeal or who are unable to participate in one or more required Regents Exam(s) because of illness, including isolation restrictions due to COVID, may request a Special Determination to Graduate with a Local Diploma in June 2022.

7.) **Exemptions from the Regents Exam in US History and Government (Framework)**

Eligible students shall be granted an exemption from the June 2022, August 2022, or January 2023 Regents Exam in US History and Government (Framework). Reference: FAQ on Cancellation of Regents Exam in US History and Government (Framework)

Assessment Requirements

	Regents Diploma for All Students		Regents Diploma via Appeal for All Students		Local Diploma via Appeal for All Students		Local Diploma for Students with a Disability		Local Diploma via Appeal for English Language Learners	
REGENTS EXAM or passing score on a Department approved alternative	# of Exams	Passing Score	# of Exams	Passing Score	# of Exams	Passing Score	# of Exams	Passing Score	# of Exams	Passing Score
English Language Arts (ELA)	1	65 ¹	1	1 Regents exam with a score of 60-64 for which an appeal has been granted by the district and all remaining Regents exams with a score of 65 ¹ or above	1	2 Regents exams with a score of 60-64 for which appeals have been granted by the district and all remaining Regents exams with a score of 65 ¹ or above	1	55 ^{*A}	1	Either the ELA Regents exam with a score of 55-59 for which an appeal has been granted by the district, and all remaining Regents exams with a score of 65 ¹ or above, OR 1 Regents exam with a score of 60-64 and the ELA Regents with a score of 55-59 for which appeals have been granted for both by the district, and the remaining Regents exams with a score of 65 ¹ or above. ¹
Math	1	65 ¹	1		1		1	55 ^{*A}	1	
Science	1	65 ¹	1		1		1	55 ^{*A}	1	
Social Studies	1	65 ¹	1		1		1	55 ^{*A}	1	
Pathway (See note 1 on reverse side)	1 or CDOS	65 ¹ if Regents Exam	1 or CDOS		1 or CDOS		1 or CDOS	55 ^{*A} if Regents Exam	1 or CDOS	
Compensatory Safety Net	Non-Applicable		Non-Applicable		Non-Applicable		Scores of 45-54 on any required Regents exam (except ELA and Mathematics) can be compensated by a score of 65 ¹ or above on another required Regents exam including ELA and Mathematics.		Non-Applicable	

Regents Diploma with Advanced Designation

Students seeking the Regents diploma with advanced designation must:

- Meet the credit and assessment requirements for a Regents diploma; and
- Pass **two additional Regents exams** or Department approved alternatives in **mathematics**; and
- Pass **one additional Regents exam** or Department approved alternative in **science**
 - students seeking advanced designation must pass at least one Regents exam or Department approved alternative in both sciences (**one life** and **one physical**); and
- Complete a **sequence**:
 - earn an additional 2 units of credit in World Languages and pass a locally developed Checkpoint B World Languages examination, or
 - complete a 5 unit sequence in the Arts, or
 - complete a 5 unit sequence in CTE.

Assessment Combinations for Advanced Designation

Traditional Combination	ELA, Global History and Geography, US History and Government, 3 mathematics, 2 science (1 life science, 1 physical science) = 8 assessments
Pathway Combination (other than STEM)	ELA, 1 social studies, 3 math, 2 science (1 life science, 1 physical science), 1 Pathway (other than science or math) = 7 (+Pathway) or 8 assessments.
STEM (Mathematics) Pathway Combination	ELA, 1 social studies, 4 math ¹ , 2 science (1 life science, 1 physical science) = 8 assessments.
STEM (Science) Pathway Combination	ELA, 1 social studies, 3 math, 3 science (at least 1 life science, at least 1 physical science) = 8 assessments.

* A student with a disability may appeal scores between 52 and 54 on up to two Regents examinations in any discipline and graduate with the local diploma. Reference [New York State Diploma/Credential Requirements: Local diploma for Students with Disabilities](#).

^A In the event a student with a disability is unable to attain a passing score on any Regents examination, the student may be eligible for a Superintendent Determination of a local diploma. Reference [Appeals, Safety Nets, and Superintendent Determination](#).

¹ English Language Learners seeking an appeal for a score of 55-59 on the ELA Regents Exam are only eligible if they entered the United States in grade 9 or after and were classified as an English Language Learner when they took the test the second time. Reference [New York State Diploma/Credential Requirements: Local diploma for English Language Learners](#).

² The 4th mathematics examination can be selected from the list of [Department Approved Alternative Examinations](#).

¹ For the purposes of determining a student's diploma type, exemptions and Special Appeals should be considered passing scores. Both exemptions and [Special Appeals](#) may be applied to all diploma types.