

Norwalk Public Schools

Program of Studies

2024 – 2025

Norwalk High School



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Table of Contents

Introduction	5
Course Selection Process	6
Credit Requirements for Graduation	8
Capstone Experience and Mastery Based Assessment	11
Testing Information	12
Course Descriptions	13
Norwalk High School	13
English	14
Social Studies	19
Digital Media and Communication Academy at NHS	25
Fine Arts	27
Music	31
World Languages	36
Mathematics	43
Science	48
Physical Education & Health Education	53
Business	55
Family and Consumer Science	58
JROTC / Aerospace (Air Force)	59
Multilingual Learner (MLL) Education	60
Specialized Education	64
Future Ready Programs	68
Career Pathways within Norwalk Public Schools	74
Connecticut State Seal of Biliteracy	80
Out of District Special Programs	81
Online Learning	83

Introduction

Vision Statement of Norwalk Public Schools

Norwalk is the most successful City school system in Connecticut. Norwalk students will exceed State average achievement while high-need students have the smallest achievement gap. Student needs and interests are met through a wide range of school and program choices that promote diversity and broaden achievement. All students are taught by exemplary educators in nurturing, safe, and attractive schools. Students read on grade level by the end of grade three, leave eighth grade equipped to do rigorous high school work, and graduate from high school ready for college.

Goals of the Norwalk Public Schools

- Close the gaps between Norwalk student achievement and State average student achievement in Reading (ELA), Math, Science, and the graduation rate (4 and 5 years) during the life of the Strategic Operating Plan.
- Reduce the achievement gap of Norwalk's high-need students – Special Education, Multilingual Learners, and low-income students - relative to high-need students in the State. Norwalk will have the smallest achievement gap of any City in the State.
- Create more educationally robust parental choices that meet diverse student needs and interests.
- Develop exemplary teachers and school leaders; fill the majority of school and district leadership positions through succession planning and development of staff within the district.
- Ensure safe and attractive schools that support educational programs of the Plan and a nurturing, inclusive learning environment with positive behavior interventions and supports at every school.
- Develop external partnerships and district operating systems necessary to achieve equity and support the District's strategic priorities in the most cost-effective manner.



Course Selection Process

The course selection process is a significant component of the school-home partnership and while course selection is the primary responsibility of the student and their parents/guardians, there will be numerous opportunities to consult with, make use of the broad experience and professional background of our faculty, and school counseling staff.

Students have the opportunity to explore the diverse course offerings through our Program of Studies, which will enable them to be best prepared for college or employment upon completion of their senior year.

Prerequisite work, feedback, and recommendations are always considered in supporting course selection to maximize our students' learning goals. Below, is a suggested timeline that high schools and middle school will follow while completing this exciting planning phase. Please check with your own school for specific dates.

Date	Action	Description
February	Program of Studies Booklet Distribution- Electronic	Students and parents review course offerings and prerequisites through email.
February	Teacher Recommendation	Teachers confer with students during class and input their recommendations into Power School for the upcoming year. Recommendations are based on current performance.
February/March	School Counselor Meetings	Students participate in scheduled meetings with the school counseling department to review all course requests.
February/March	Student Course Request Window	Students submit course requests via the Course Selection 2024-2025
April/May	Course Requests	Parents and students can view course requests through the Power School Portal. Inquiries from students and parents regarding course selections can be directed via email or phone calls to the classroom teacher, administrator or school counselor
May	Placement and Prerequisites	Prerequisites are indicated by department and/or course where necessary. Placement into grade nine academic courses is based on teacher recommendation.

During the second semester of each school year, extensive plans and procedures are instituted in preparation for the following year. None is more important than scheduling. It is imperative that both parents and students exercise careful planning prior to making course selections.

School counselors will provide all materials and offer advice prior to the announced deadlines. Please review the Program of Studies carefully and consult with a counselor on questions or concerns in making decisions. When all courses have been selected, counselors will send requests via email to the student and parent or guardian. Once submitted, the final requests constitute the basis for all further planning.

Schedules will only be modified if one of the following occurs:

1. If there is a course conflict or the printed schedule is incorrect.
2. If a schedule is incomplete or there are insufficient credits for graduation.
3. As a result of a course failed in June or successful completion of a course in summer school.

When conflicts arise, students must be prepared to make alternative choices in order to resolve them. Decisions need to be made carefully and thoughtfully.

COURSE CHANGES AND THE PERMANENT RECORD

Course changes are rare and are made only for academic reasons with administrative approval when the struggling student has worked to address the issue with the teacher.

1. An approved change after 10 school days in a semester course will result in a “W” on the student’s transcript. An approved change or drop after 20 school days in a full-year course will result in a “W” on the student’s transcript.
2. Any approved course change or drop after the first quarter of a semester course will be recorded as a “WF” on the student’s transcript. Any approved course change after the first quarter of a full-year course will be recorded as a “WF” on the student’s transcript.
3. When a student transfers to another level (same subject), the current grade transfers with the student. If he or she transfers from an AP or Honors level course, the transferred grade will not be weighted. The AP or Honors level course will not be reflected on the transcript.

NCAA Athletes Eligibility

If you want to play sports at an NCAA Division I or II school, start by registering for a Certification Account with the NCAA Eligibility Center at eligibilitycenter.org. If you want to play Division III sports or you aren’t sure where you want to compete, start by creating a Profile Page at eligibilitycenter.org.

ACADEMIC REQUIREMENTS: To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPA and earn an ACT or SAT score that matches your core-course GPA. For full information regarding the requirements, please see the brochure below:
<http://www.ncaapublications.com/productdownloads/EB17.pdf>

CORE COURSES: Only courses that appear on your high school’s list of NCAA core courses will count toward the 16 core-course requirement; visit www.eligibilitycenter.org/courselist for a full list of your high school’s approved core courses.

	These courses are NCAA eligible.
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Credit Requirements for Graduation

Norwalk Public Schools requires that students fulfill the following requirements in order to graduate. Students must complete credit requirements.

Class of 2025, 2026, 2027 & 2028 (25 credit requirement)

Humanities (English, Social Studies, Fine Arts, World Languages) **10.0 Total**

- 4.0 English
- 1.5 Social Studies (1.0 World History recommended)
- 1.0 US History
- 0.5 Civics (or American Government or Constitution)
- 1.0 Fine Arts (Art, Music, Theatre, Dance)
- 2.0 World Languages

STEM (Science, Technology, Engineering, Math) **9.0 Total**

- 4.0 Math (may include Algebra 1, Geometry, Algebra 2, Statistics, or other math courses)
- 1.0 Biology/Life Science (lab)
- 1.0 Chemistry/Physical Science/Earth Science (lab)
- 1.0 Other Science
- 2.0 STEM Related Course (including 0.5 Digital Literacy Requirement*)

Physical Education and Wellness; Health and Safety **2.0 Total**

- 1.0 Physical Education
- 1.0 Health and Safety

Related Courses **3.0 Total**

- 3.0 Pathway Related Courses (including 0.5 Financial Literacy Requirement for Class of 2027+*)

Capstone Requirement **1.0 Total**

- 1.0 Capstone Experience

25.0 Total Credits Required for Graduation

Seniors must take 6.0 credits with Capstone credit and must pass a minimum of 5 credits in grade 12 to be eligible for graduation.

*Digital Literacy is the ability to find, evaluate, utilize, share, and create content using information technologies and the internet. Students must complete at least 0.5 credit in one of the following courses to demonstrate proficiency in Digital Literacy prior to graduation.

- **Business:** Computer Applications, Web Page Design, Computer Construction and Repair, CISCO Networking 1, Honors CISCO Networking 2, Honors Computer Science Essentials (PLTW), Honors Computer Science Principles (PLTW) & Video Game Design. CompTIA Fundamental, CompTIA Core 1, CompTIA Core 2.
- **Computer Science:** Computer Science 1, Computer Science 2, Exploring Computer Science, AP Computer Science Principles, AP Computer Science A, Introduction to Java, Software Design and Integration 1 & Conceptual Engineering Milestones
- **Engineering (Science):** Computer Applications for Marine Science Studies, All Project Lead the Way (PLTW) Courses *not including those in the MHA*; or another approved course.
- **PLTW:** CompTIA IT Fundamentals, CompTIA Core 1, CompTIA Core 2 & IT Internship
- **NCC:** NCC GRA 151 - Graphic Design I: Skills and Principles, NCC GRA 252 - Graphic Design II: Process and Presentation, NCC GRA 231 - Digital Imaging: Adobe Photoshop, NCC GRA 241 - Digital Page Design: Adobe InDesign, & All NCC CST and CSC course

*Financial Literacy is the ability to understand and effectively use various financial skills, including personal finance management, budgeting, and investing. Students in the Class of 2027 and beyond must complete at least 0.5 credit in one of the following courses to demonstrate proficiency in Financial Literacy prior to graduation.

- **Business:** Principles of Personal Finance, Personal Finance, Principles of Financial Literacy, Financial Literacy, Principles of Investing, Money Wise-Future Ready, and Financial Math (Edgenuity)
- **Math:** Money Math

Credit System

All subjects at the high school level are assigned units of credit values based on the **Carnegie Unit System**. The number of class sessions and the amount of preparation necessary to achieve a satisfactory standard of performance determine these values. They are equivalent to those assigned by other secondary schools. Every course taken in grades 9, 10, 11, and 12 becomes part of the student's official high school record. *This record of credits and grades earned determines a student's average, rank in class, and qualifications for graduation.*

Starting with the Class of 2023, students successfully completing Algebra 1, Geometry and/or World Languages in grade 8, will count towards the high school graduation requirement. However, courses completed in middle school are not included in the high school cumulative grade point average.

Grading Procedures

This chart shows the letter grades and how grade point averages (GPA) are calculated for academic performance in Advanced Placement, IB, and honors classes.

Grade	Value	Unit Weight	Honors	AP/IB
A	(93-100)	4.00	4.50	5.00
A-	(90-92)	3.70	4.20	4.70
B+	(87-89)	3.30	3.80	4.30
B	(83-86)	3.00	3.50	4.00
B-	(80-82)	2.70	3.20	3.70
C+	(77-79)	2.30	2.80	3.30
C	(73-76)	2.00	2.50	3.00
C-	(70-72)	1.70	2.20	2.70
D+	(67-69)	1.30	1.80	2.30
D	(63-66)	1.00	1.50	2.00
D-	(60-62)	0.70	1.20	1.70
F	(0-59)	0.00	0.00	0.00

Example:

<u>Course</u>	<u>Grade</u>	<u>GPA</u>
EN0036GAE5 English 3	B+	3.30
EN0039HAE5 Honors English 3	B+	3.80
EN0040ACE5 AP/IB English Language	B+	4.30

Plan of Study Class of 2025 - 2026

Scholar Name:	Date:
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25 CREDIT REQUIREMENTS	Mfin CR	Grade 9	Grade 10	Grade 11	Grade 12	T CR
HIGH SCHOOL REQUIREMENTS						
English	4					
Social Studies	1.5					
US History	1					
Civics	.5					
Fine Arts	1					
World Language	2					
Total						
Humanities Credits	10					
Math	4					
Science	3					
STEM Elective <i>Digital Literacy Requirement</i>	2					
Total						
STEM Credits	9					
Physical Education	1					
Health Education	1					
Total						
PE & Health Credits	2					
Related Courses	3					
Capstone Experience	1					
Total	4					
TOTALS						

Plan of Study Class of 2027+

Scholar Name:	Date:
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25 CREDIT REQUIREMENTS	Mfin CR	Grade 9	Grade 10	Grade 11	Grade 12	T CR
HIGH SCHOOL REQUIREMENTS						
English	4					
Social Studies	1.5					
US History	1					
Civics	.5					
Fine Arts	1					
World Language	2					
Total						
Humanities Credits	10					
Math	4					
Science	3					
STEM Elective <i>Digital Literacy Requirement</i>	2					
Total						
STEM Credits	9					
Physical Education	1					
Health Education	1					
Total						
PE & Health Credits	2					
Related Courses <i>Financial Literacy Requirement</i>	3					
Capstone Experience	1					
Total	4					
TOTALS						

Capstone Experience and Mastery Based Assessment

Beginning with the Class of 2023, all students must successfully complete a Capstone Experience, which will count as their mastery-based diploma assessment prior to graduation. This Experience is a culmination of a student's learning in a particular area over the course of three or four years. Students will select specific courses, academic programs, and learning opportunities that align with their interests. NPS graduates connect learning to a real-world application while developing the attributes needed for success after high school.

General Overview

The Capstone is a culminating experience that provides students with the opportunity to:

- independently develop essential skills and knowledge in an area of talent or interest.
- demonstrate learning, growth, and progress toward proficiency or mastery through a public presentation of a selected genre of study (problem-solving, internship, research-based, creative/performance).
- utilize a Skills21 platform to store evidence, reflect on learning, and present information.
- be assigned a Capstone advisor to guide completion of required tasks.
- award one credit (pass/fail) for high school graduation (State Graduation Requirement).

Each Capstone must include the following required components:

Proposal

- Find Your Passions activity available to brainstorm areas of focus for Capstone project.
- Submit proposal for Capstone project

Ongoing reflection

- 3-5 required reflections (can be done in writing, video journaling, voice memos, etc)
- Advisor check-ins for progress and completion

Research & Product

- Can include, but not limited to one of the following: internship with specific evidence (mentor will provide examples); research paper (ethnography, oral history, lab-based research, etc), performance or exhibition (music, dance, art, film, theatre); creative writing (fiction, creative nonfiction, stage or film scripts, poetry collection); event or showcase dedicated to solving a problem (community service event, STEM-based prototype, design prototype or model, economic model).
- Products evaluated by Capstone advisors

Exhibition/Presentation

- Modes of presentation with scoring (Audience of peers, parent/guardian, and/or faculty)
- Includes portfolio containing all of the components of the Capstone Experience

Senior Capstone Seminar Experience

- Semester-long course is available to support students in completion of their Capstone project.

Testing Information

Northwest Evaluation Association (NWEA) or Measures of Academic Progress (MAP): This formative assessment is given to grade 9 and 10 students to determine their proficiency in reading, writing, and mathematics. It is an adaptive, computer-based assessment that is proctored in the students' classes. These scores are used to determine instruction, specifically acceleration and remediation

Scholastic Aptitude Test (SAT) for Grade 11 Students: The Connecticut State Board of Education adopted the SAT as the statewide assessment for grade 11. The SAT is administered during the school day to all grade 11 students in all public schools in Connecticut in the spring.

Suggested Level of Proficiency on SAT

2023 SAT Grade 11 Benchmarks

- Math: 510 out of 760
- Evidence-based Reading and Writing: 460 out of 760

PSAT / NMSQT- Preliminary Scholastic Aptitude Test (**PSAT**)/National Merit Scholarship Qualifying Test (**NMSQT**): This test is administered in the fall to help students prepare for the SAT and is the means for juniors to enter a competition for the National Merit Scholarships and/or the National Achievement Scholarships.

PSAT 8/9: This test is administered to all grade 8 and 9 students each fall. It is intended to be used as a baseline of student achievement as they enter high school on topics that matter most to college and career success.

Advanced Placement Tests (AP): Students are expected to take the AP exam if enrolled in an AP course. Information explaining tests, fees, application dates and more is available online at www.collegeboard.com.

International Baccalaureate Tests (IB): Students are expected to take the IB exam if enrolled in an IB course. Information explaining tests, fees, application dates and more is available online at www.ibo.org.

Language Assessment System (LAS) Links: English proficiency testing of Multilingual Learners (MLLs) occurs upon registration. The test consists of 4 sections – listening, speaking, reading, and writing. All students designated as MLLs are tested each year on the LAS Links to measure progress towards English language proficiency.

Connecticut Physical Fitness Assessment (CPFA): All students must have their CT Physical Fitness Assessment scores reported to the State throughout their High School career. The school is measured by the State according to both participation and passing rates.

Project Lead the Way Testing (PLTW): PLTW End-of-Course Assessments. These assessments measure a balance of both subject-matter knowledge and mastery of in-demand, transportable skills, including problem solving, critical and creative thinking, collaboration, communication, and ethical reasoning. Performance on the PLTW Assessment may result in students receiving **dual credit** at various higher education institutions.

Course Descriptions

Norwalk High School

Humanities:

English

Social Studies

Fine Arts and Music

World Languages

English

During the four years of high school, students must earn four credits in English. All students must pass the following required courses: **English 1, English 2, English 3, and two core English grade 12 related courses** (that prepare students for a career pathway or Capstone Experience) or **Advanced Placement English or IB course or World Literature (CGS only)**. *Subject offerings can also be found within the Multilingual Learner (MLL) section of this book.

Honors English courses are available to students in grades 9, 10, and 11 and **Advanced Placement English** is an option for grades 11 and 12. **For these programs, a required reading and writing assignment must be completed during the summer prior to enrollment.** It is the responsibility of the student to obtain the appropriate list from the English department staff.

In addition to the required **English** course, students in all grades may choose from among several English related courses; any special prerequisite is indicated in the course description.

Guidelines for high school English Departments concerning student enrollment in required courses:

- No student may be simultaneously enrolled in two courses of required English.

English Requirement Course Sequence

9	10	11	12
English 1 Transition English*	English 2 Transition English*	English 3 Transition English*	Senior Core English Courses Transition English*
Honors English 1	Honors English 2	Honors English 3	AP Language & Composition AP Literature & Composition
		AP Language & Composition AP Literature & Composition	

*See notes for Transition English enrollment and MLLs under Multilingual Learners course description.

EN0016GAE	English 1	Grade 9	1 Credit 
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***[Graduation Requirement: English Credit]**

This course is an exploration of the reading-writing connection. Students will study a diverse collection of informational and literary texts and will use the writing process and technology to develop writing proficiency. Students will also work on speaking and listening, vocabulary development, comprehension strategies, and logical thinking and study skills. Emphasis will be placed on close reading strategies that develop critical reading and analytical skills development.

EN0019HAE	Honors English 1	Grade 9	1 Credit 
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***[Graduation Requirement: English Credit]**

This accelerated English course will consist of an in-depth examination of both fiction and nonfiction. An emphasis will be placed on the various forms of discourse (e.g., persuasive, expository, narrative, and descriptive). Students will learn the components and skills associated with critical and rhetorical analysis. Multicultural readings will be studied throughout the course to gain a better understanding of the author's voice and choice. This course will provide an intensive educational opportunity for qualified, highly motivated students. Students may be required to complete a summer reading and writing assignment in advance of taking this course. Prerequisite: Eighth-grade teacher recommendation based on student's interest and motivation.

EN0026GAE	English 2	Grade 10	1 Credit 
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***[Graduation Requirement: English Credit]**

In this course, students will acquire the skills and develop the vocabulary necessary to read the major genres of literature: the novel, short story, drama, poetry, essay, and biography. A combination of nonfiction and fiction works will be used in the course of study. Students will study the various techniques of developing and researching a topic and will write papers and develop multimedia presentations using these skills. Instruction will focus on response writing, persuasive essay, and reflective personal statements. Grammar, research, vocabulary, and oral communication skills will also be emphasized.

EN0029HAE**Honors English 2****Grade 10****1 Credit*****[Graduation Requirement: English Credit]**

This accelerated English course will consist of an in-depth analysis of challenging classical and contemporary short stories, drama, novels, poetry, non-fiction, and biographies. Selections will include a diverse set of authors that reflect the multiculturalism found in our society. In addition, the course will stress the writing process and include an emphasis on expository, research and thesis writing. Other activities will include the acquisition of grammatical skills, the development of vocabulary, the application of literary terminology, and the development of oral communication skills. More emphasis will be placed on understanding rhetoric and the appeals. The course will provide an intensive, educational opportunity for qualified, highly-motivated students. Students may be required to complete a summer reading and writing assignment in advance to take this course. The responsibility for obtaining and completing the reading and writing assignments is with the student.

EN0036GAE**English 3****Grade 11****1 Credit*****[Graduation Requirement: English Credit]**

Students in this course will read major writers of American Literature from the early colonial period to the present to become aware of their cultural traditions. Through their reading, discussions, vocabulary work, and writing, students will develop an awareness of their place in society and their value as an individual. Students will develop research skills and use the writing process to develop creative, analytical, and persuasive pieces. Informational and literary texts will be analyzed using close reading strategies as preparation for college entrance exams. Focus will also be given to the personal narrative as a way to best prepare students for college essay admission requirements.

EN0039HAE**Honors English 3****Grade 11****1 Credit*****[Graduation Requirement: English Credit]**

Students in this accelerated English course will develop the ability to examine the growth of American Literature from the colonial to the contemporary period. Through a critical analysis of the works of major American writers, students will achieve knowledge of their cultural traditions, an understanding of the development of American literary thought, and an awareness of their place in society. Students will write papers and produce multimedia presentations to increase their skills in the techniques of expository, narrative, and research writing. Focus will also be given to the personal narrative as a way to best prepare students for college essay admission requirements. This course will provide an in-depth, challenging study of American Literature for the qualified, highly-motivated student. Students may be required to complete a summer reading and writing assignment in advance to take this course. The responsibility for obtaining and completing the reading and writing assignments is with the student.

EN0040ACE**Advanced Placement: Language and Composition****Grades 11, 12****1 Credit*****[Graduation Requirement: English Credit]**

Students will be engaged in becoming skilled readers of prose written in a variety of rhetorical styles and in becoming skilled writers who compose for a variety of purposes. Both their reading and their writing should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effectiveness of writing. Students are expected to take the Advanced Placement exam. AP courses may require summer assignments that are due on the first day of school. The student is responsible for obtaining their summer assignments and submitting the completed work on time.

EN0050ACE**Advanced Placement: Literature and Composition****Grades 11, 12****1 Credit*****[Graduation Requirement: English Credit]**

In this course, students will analyze poetry, drama, prose, fiction, and expository literature, including as a minimum four core and four ancillary grade 12 titles. They will intensively study a representative sampling from various genres and periods. Students will defend their interpretations of literature and share ideas through class discussions, critical writing, and oral presentations. This college-level course of literature and composition is for mature students who have excelled in English. Students are expected to take the Advanced Placement exam. AP courses may require summer assignments that are due on the first day of school. The student is responsible for obtaining their summer assignments and submitting the completed work on time.

NORWALK HIGH SCHOOL SENIOR CORE ENGLISH COURSES

Senior Core English Courses (2 courses required)

Grade 12

0.5 credits each

***[Graduation Requirement: English Credit]**

- **Crime Studies: *Avengers, Detectives, and Vigilantes in Literature* (EN0101GAC)**

Beginning with 19th century predecessors, students will cover modern American crime narratives, emphasizing the noir fiction that flourished between the Jazz Age and the Cold War as the true crime novel.

- **Ghosts, Monsters, Mysteries and Madness: *The Stories, Legends, and Obsessions of the Gothic Age* (EN0109GAC)**

This course uses high-interest genres of horror and murder mystery stories to engage in investigating the historical background of Gothic Romanticism during the Victorian Era.

- **Greece to Gotham: *The Evolution of the Hero* (EN0102GAC)**

Examine how real life and fictional heroes have evolved over time, beginning in the ancient Greek world and continuing through the modern era. Students will explore how societies define and portray heroes, as well as how they promote cultural values and morals. Students will study a variety of heroes, including mythological heroes, epic heroes, tragic heroes, antiheroes, and superheroes.

- **The Immigrant Experience (EN0106GAC)**

Students will be introduced to multicultural literary perspectives and the course will examine the effects of such issues on modern society such as ethnicity in America, the melting pot theory, separatism, cultural pluralism, legal issues, and bilingual education and instruction.

- **The Poetry of Music (EN0105GAC)**

This class focuses primarily on students who may have not yet warmed up to poetry but who readily seek contact with music. The lessons on music may serve as a foundation for finding poetic connections to art, land, or other sources of inspiration.

- **Rethinking Gender in Literature (EN0064GAC)**

This literature and writing course takes a historical approach to exploring the evolution of gender relations within American society. Gender and Literature is a focused survey of women's contributions to American letters, undergirded by historical and theoretical works of non-fiction.

- **Rockers, Rebels, and Revolutionaries: *The Counter Culture of the 1960s* (EN0110GAC)**

This course uses literary text and multimedia sources to enable students to get a cultural overview of the events that contributed to the social revolution of the 1960s. They will evaluate lyrics, speeches, and news articles that ignited a generation and fueled a revolution.

- **Science Fiction (EN0117GAC5)**

This course will explore the world of modern science fiction and the role it has played as an influence and reflection of the politics and culture of the 20th and 21st century as well as mankind's relationship with each other, technology, and the great unknown.

- **Sports Literature (EN0104GAC)**

Students will reflect on athletes, their lives and stories, and how sports fit into a global society while honing real-life writing skills that reflect pieces read in class.



All senior English electives are eligible courses.

ENGLISH PATHWAY COURSES

EN0076GAC	Approaches to Film and Media Study	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

This one-semester English related course teaches students to view, discuss, and write about films critically in order to understand the ways in which films convey meaning, express points of view, influence public opinion, and reflect the time period. Students will learn about the history of film, the basics of film theory, and the critical analysis of film. Although films will be viewed in class, students will be expected to view films at home and in the movies. Genres and movements of film include, but are not limited to, Film Noir, Impressionism, montage, science fiction/fantasy, westerns, Cinema Verite, and silent films. Possible readings include film analyses, directors' notes, texts on which films are based, screenplays, and reviews. Students will use a variety of media to respond to their viewing.

EN0057GAC	Creative Writing	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			



Students will study many aspects of writing technique and will apply these techniques to the following writing options: short stories, poetry, one act plays, T.V. scripts, and children's stories. Students will be encouraged to write for an audience by sharing their work aloud with classmates and by submitting their writing for publication as appropriate. 10th, 11th, and 12th graders take this course in addition to the required English 2, 3, or 4 as applicable.

EN0078GAC	Digital Storytelling	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

Storytelling will be a great option for any student who wants to learn more about the conventions of filmmaking and how to use various forms of technology to tell interesting and compelling stories. The course will introduce elements of storytelling and will encourage creativity and teamwork through a variety of projects such as video narratives, memoirs, poetry, short films, and more.

EN0058GAC	Dramatic Experience	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

Dramatic Experience is designed to allow students the opportunity to experience drama through reading, discussion and dramatic presentation. Significant works, classical to contemporary, will be examined in the context of dramatic structure, theme, and the evolution of theater. Students will explore different acting techniques and styles with an emphasis on developing the actor's instrument (voice and body), ensemble work, improvisation, monologue, acting for the camera, and scene performance. Students will also experience the art of oratory (speech), which includes crafting individual dramatic pieces.

EN0071GAE	Journalism 1	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

This introductory course will include class instruction and lab activity. Students will practice the fundamentals of news writing, differentiate between news and opinion, and track current issues on the local, national, and international scenes. Students will study the function, techniques, and responsibilities of journalism. Students will assist with the preparation and publication of the school newspaper. This course is recommended for students whose writing skills are firmly grounded. The course introduces students to the history of journalism and covers the basic requirements for using Adobe software In-Design.

EN0073GAE	Journalism 2	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

This course offers students more of a role in the production of the student newspaper. Students are tasked with editing student work, organizing photography, and the general design of the paper. Students determine how the advertising and distribution of the paper is managed. Students in Journalism II are already familiar with the AP standards for writing and have experience with In-Design software. These students have shorter deadlines and are required to cover more long term, in depth writing assignments. Further, the class requires students to organize class discussions and meetings. After school hours are required to meet deadlines necessary to the publication of the paper. Prerequisite: Journalism 1

EN0079HAE	Honors Journalism 3	Grade 12	1 Credit
*[Graduation Requirement: Pathway Related Course]			

This course is for students who are committed to the publication of the student run newspaper. Students in this course have taken Journalism I & II and will be assigned an Editor or Manager position. Students are expected to know the Associated Press writing standards and have mastered Adobe InDesign. Positions include: Editor In-Chief, News Editor, Opinion Editor, A&E Editor, Sports Editor, Photography & Design Editor, Feature Editor, and Business Manager. These students will manage the content from Journalism I & II students. Prerequisites: Journalism 1 and Journalism 2.

EN0093GAC	Public Speaking	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			
			

Students will learn how to create and deliver speeches. Students will focus on both verbal and nonverbal communication, interpersonal and intrapersonal skills, and preparation and delivery of various types of speeches.

EN0075GAC	Psychology in Literature	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			
			

Students will read and discuss short stories and plays focusing on parents and children, family conflicts, and adult relationships. Observing the tensions and misunderstandings of characters in fiction, students will give their opinions of the personalities and situations presented in the stories. Students will explore and voluntarily share their own beliefs and behaviors. The course appeals to students of all Language Arts ability levels. 11th and 12th graders take this course in addition to the required English 3 or 4 as applicable.

EN0080GAC	SAT English Prep	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

This semester-length (NHS) class is intended to prepare students for the evidenced-based reading and writing segments of the SAT. Teachers will provide students with activities in analytical thinking and with the skills and strategies associated with the evidence-based reading and writing section and the math section of the redesigned SAT. Topics covered include developing a study plan, vocabulary, sentence completion strategies, reading comprehension, and essay-writing strategies, as well as time management, scoring procedures, and strategies for managing test anxiety. Course materials may include SAT review materials, current assessment software programs, and previous standardized examinations. This course does not fulfill the graduation credit in English. **This course will be designated to be pass or fail.**

EN0017GAE	Transition English	Grade 9, 10, 11, 12	1 Credit
*[Graduation Requirement: English Credit]			

This course follows the English I curriculum standards and is designed for MLL students. The course is co-taught between an English teacher and an MLL teacher. Teachers use instructional strategies that are effective with MLLs to prepare students for the mainstream English II course that is next in the English core sequence. The curriculum is an exploration of the reading-writing connection and students will incorporate the writing process as they develop their communication skills and engagement in academic discourse. Successful completion gives the student one credit in English.

Social Studies

The purpose of the Social Studies curriculum is to provide learning programs to prepare our young people to be humane and rational participants in an ever-changing environment. In order to live a successful life in this expanding world, students need to develop a keen understanding of the social, intellectual, political, and economic forces they will face. The scope and sequence of the curricula will prepare students to achieve these goals and assist in their growth as citizens in a multicultural, global community. In addition to the required courses, a variety of Pathway Related Courses are provided to fulfill student needs and interests. All 9th, 10th, and 11th grade students may complete a summer reading assignment. The summer reading list is available from the school. *Subject offerings can also be found within the Multilingual Learner (MLL) section of this book.

9	10	11	12
World History Honors World History	US History Honors US History AP US History	Civics Honors Civics AP US Government & Politics	Civics Honors Civics AP Government & Politics
	AP European History AP Macroeconomics SCSU Introduction to Psychology / Social Psychology	AP European History AP Macroeconomics SCSU Introduction to Psychology / Social Psychology	AP European History AP Macroeconomics SCSU Introduction to Psychology / Social Psychology

SS2206GAE	World History	Grade 9	1 Credit 
*[Graduation Requirement: Social Studies Related Course]			

This course is a survey of World History from its origins to the 21st century. It will include historical development of economics, political, social and religious institutions with an emphasis on geography's impact on historical and cultural development.

SS2209HAE	Honors World History	Grade 9	1 Credit 
*[Graduation Requirement: Social Studies Related Course]			

This course is a survey of World History from its origins to the 21st century. It will include historical development of economics, political, social and religious institutions with an emphasis on geography's impact on historical and cultural development. Students will conduct some in-depth studies of themes in World History including conducting research, analyzing primary and secondary sources, writing a research paper, and/or completing a research project. The student is responsible for obtaining their summer assignments and submitting the completed work on time. **Strongly Recommended: B or better in grade 8; standardized assessment scores will be considered in teacher recommendation; strong writing and reading skills; ability to do independent writing and research.**

SS2226GAE	United States History	Grade 10	1 Credit 
*[Graduation Requirement: US History]			

This course surveys the development of the American political, socio-cultural, and economic landscapes during the post-Civil War period and investigates the role of the United States in world affairs. Provision may be made for students to concentrate on and/or specialize in areas of interest through classroom projects and writing assignments.

SS2229HAE	Honors United States History	Grade 10	1 Credit 
*[Graduation Requirement: US History]			

This course surveys the development of the American political, socio-cultural, and economic landscapes with an emphasis on the post-Civil War period and investigates the role of the United States in world affairs. Provision may be made for students to concentrate in special areas of interest through classroom projects, formal essays, and research papers. The student is responsible for obtaining their summer assignments and submitting the completed work on time. **Strongly Recommended: B or better in World History; standardized assessment scores will be considered in teacher recommendation; strong writing and reading skills; ability to do independent writing and research.**

SS2236GAC	Civics	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Civics]			

The course surveys the origins and institutions of the US Government. Emphasis is placed on the political organization and structure of our national, state and local governments as well as their development. The Constitution and its interpretation will be studied through the use of Supreme Court decisions. Analysis and interpretation of outside readings will be required. Students are encouraged to actively participate in the democratic process and will be given an opportunity to participate in the governmental process through fieldwork projects.

SS2237HAC	Honors Civics	Grade 10, 11, 12	0.5 Credit
*[Graduation Requirement: Civics; Social Studies Related Course]			

The course meets the Civics graduation requirement. The Constitution is often referred to as a living document; this one semester course will examine the progress of the Constitution and our changing understanding of its meaning. The focus of study will be how different groups have been affected by changes in the document over time. Beginning with its origins in Enlightenment thought, the course will trace the changes in the document and how our understanding of it has changed over time. The student is responsible for obtaining their summer assignments and submitting the completed work on time. Any student who fails to meet the due date for summer assignments will receive a failing grade. Strongly Recommended: B or better in previous year's social studies course; standardized assessment scores will be considered in teacher recommendation; strong writing and reading skills; ability to do independent writing and research.

SS2259HAC	Honors Economics	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Social Studies Related Course]			

The Honors Economics course will provide an introduction to microeconomic and macroeconomic theory as it applies to the American Free Enterprise System. Students will also study other economic systems, analyze and compare them to capitalism. Analysis and interpretation of outside readings will be required. The student is responsible for obtaining their summer assignments and submitting the completed work on time. Any student who fails to meet the due date for summer assignments will receive a failing grade.

AP Social Studies Courses

Advanced Placement (AP) classes are rigorous college courses that are offered in the high school setting. AP courses require summer assignments that are due on the first day of school. The student is responsible for obtaining their summer assignments and submitting the completed work on time. Any student who fails to meet the due date for summer assignments will receive a failing grade.

SS2240ACE	Advanced Placement European History	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Social Studies Related Course]			

This one-year course will cover the history of Europe from 1450 to the present, in accordance with the College Board requirements for Advanced Placement Modern European History course. The course will focus on cultural, economic, political and social developments that have played a fundamental role in shaping the western world. Emphasis will be placed on research and the analysis of primary sources. A college text will be used. The class will be conducted in a seminar style. Students will be involved in individual and/or group projects. Emphasis will be placed on the clarity of written expression. Students are expected to take the Advanced Placement exam.

SS2327ACE	Advanced Placement Macroeconomics	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Social Studies Related Course]			

Students will explore the principles of economics that apply to an economic system as a whole. Students will use graphs, charts, and data to analyze, describe, and explain economic concepts. The course is intended to be the equivalent of a college level introductory course in macroeconomics. Students are expected to take the Advanced Placement exam.

SS2264ACE	Advanced Placement US Government and Politics	Grades 11, 12	1 Credit
*[Graduation Requirement: Civics; Social Studies Related Course]			

This course explores the political theory and everyday practice that direct the daily operation of our government and shape our public policies. The express purpose of this course is to prepare students to take the AP Exam for U.S. Government and Politics. The course is for all intents and purposes taught on a college level and it requires a substantial amount of reading and preparation for every class. The objectives of this course go beyond a basic analysis of how our government “works.” Students will develop a critical understanding of the strengths and weaknesses of the American political system, as well as their rights and responsibilities as citizens. This course fulfills the Civics graduation requirement. Students are expected to take the Advanced Placement exam.

SS2241ACE	Advanced Placement United States History	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: US History]			

This one-year course will cover the history of the United States from the colonial period through the modern age in accordance with the College Board requirements for Advanced Placement United States History course. Focus will be placed on the major developments in political-constitutional economic and diplomatic history, as well tracing developments in social, cultural and intellectual history through each major time period. Emphasis will be placed on drawing meaning from a wide variety of primary and secondary source documents and on the clarity of written expression. A college text will be used. Students are expected to take the Advanced Placement exam.

Social Studies Pathways Related Courses

SS2322GAE African American/Black and Puerto Rican/Latino Studies *[Graduation Requirement: Social Studies Related Course]	Grades 10, 11, 12	1 Credit
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This course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives and collaborations of African America/Black and Puerto Rican/Latino people in the U.S. Students will examine how historical movements, legislation, and wars affected the citizenship rights of these groups and how they, both separately and together, worked to build U.S. cultural and economic wealth and create more just societies in local, nation and international contexts. Coursework will provide students with tools to identify historic and contemporary tensions around race and difference; map economic and racial disparities over time; strengthen their own identity development; and address bias in their communities.

SS2270GAC American Studies and Pop Culture *[Graduation Requirement: Social Studies Related Course]	Grades 10, 11, 12	0.5 Credit
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This course is for students who are interested in studying American History using popular culture. Students will be able to examine cultural products such as film, television, music, art, advertisement and study its relevance and connection to the society which produced them. This is a highly participatory class that requires students to critique historical events and values that influenced popular culture.

SS2277GAE Broadcast Journalism 1 *[Graduation Requirement: Social Studies Related Course]	Grades 10, 11, 12	1 Credit
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This introductory study of broadcast media (television, film, and internet) aims to analyze and critique the mass media through the perspective of the humanities. This full year course will include technical instruction as well instruction on writing for the ear, editing news stories, video production including the editing components. The main thrust of the course is for the students to produce the content for the weekly Broadcast of Norwalk High School's news show, BEAR COUNTRY NEWS. Students who take this class will learn to become independent learners as well as fostering their abilities to work with others.

SS2286GAE Broadcast Journalism 2 *[Graduation Requirement: Social Studies Related Course]	Grades 10, 11, 12	1 Credit
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Students in this course will manage and organize teams of students in order to edit and produce a weekly news program applying skills and knowledge gained in Broadcast 1. Students will have learned the basics of Final Cut Pro Ten in the Broadcast 1 and will deepen their knowledge of this industry standard software. In addition, they will utilize the Tri-Caster computer system, as well as the Devos Video Delivery System. These students will take on managerial roles and organize the production teams in order to produce a 10 to 25-minute news program that is shown during Advisory. **Prerequisite:** Broadcast Journalism 1

SS2251GAC Current Issues *[Graduation Requirement: Social Studies Related Course]	Grades 10, 11, 12	0.5 Credit
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Students in this related course develop an awareness of the socio-political and economic issues that face the global community. Students are challenged to understand their own value structure as well as the point of view of others in their nation and in the world. This understanding is key to recognizing what motivates the actions and decisions of world leaders and the populations they govern. The program is thematically organized, and case studies used must remain fluid to maintain the relevance of the content provided teachers select topics from each theme. Freshmen may take this course in addition to World History.

SS2329GAC History of Norwalk *[Graduation Requirement: Social Studies Related Course]	Grades 9, 10, 11, 12	0.5 Credit
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This course examines the growth and development of Norwalk from the time first settlers arrived in 1651 until present day. The modern city of Norwalk is its own product of the past. Present day socio-economic conditions are attributable to a sequence of events, a gradual evolution from a seventeenth century English settlement to a multi-ethnic modern city.

SS2272GAC	Psychology 1	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Social Studies Related Course]			
			

This course is a one-semester introductory survey of the field of human behavior. Topics include sensory awareness, perception, self-esteem, dreams, meditation, motivation, and the unconscious. Students use readings, experiments, roleplays, small and large group discussion, and projects to explore these areas of human behavior.

SS2272GAC	Psychology 2	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Social Studies Related Course]			
			

This course is a one-semester, more advanced investigation of special topics in psychology. Some of the topics studied are major personality theories and abnormal behavior. These topics are studied through in-depth reading, research, and experiments, role-plays, small and large group discussions and projects to explore yourself, your family and your life choices. **Prerequisite:** Psychology 1

SS2331CCC	SCSU Introduction to Psychology (PSY100)	Grades 10, 11, 12	1 Credit
SS2332CCC	Social Psychology (PSY227)		
*[Graduation Requirement: Social Studies Related Course]			
			

Introduction to Psychology (PSY 100) and Social Psychology (PSY 227) is a dual enrollment class through Southern Connecticut State University where students will receive both high school credits and six college credits. In the first half of this course, students will be introduced to the field of psychology through the study of research methods, biology, memory and the major theorists. This course involves understanding the foundational topics of psychology while applying to real life and personal experiences. . Students must earn a C or higher to continue into PSY 227. The second half of the course will focus on abnormal psychology and social psychology. Topics include mental health disorders, group dynamics, conformity, perception, attitude, aggression, prejudice and discrimination as well as the relevant research studies, such as Asch and Milgram.. **Prerequisite: Teacher Recommendation is needed**

SS2278GAC	Sociology 1	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Social Studies Related Course]			
			

This course is a one-semester study of society and the structures we build within society. The course will be based on the exploration of sociological perspectives, culture, and human nature through socialization, social structure, and research methods of sociologists. The class will use readings, articles, discussions, and projects to highlight how society is built.

SS2279GAC	Sociology 2	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Social Studies Related Course]			
			

In the second semester, the course focus is on the specific components of society, e.g., family, community, etc. The course will explore the concepts of social deviance and the impact of gender and racial inequality on society. The course will culminate with a study of urbanization, urban sprawl, and the effects of population growth on social structure. Students will be using discussion, articles and projects to explore these themes. **Prerequisite:** Sociology 1.

SS2308GAC	Social Justice	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Social Studies Related Course]			
			

This semester course is designed to increase students' awareness, knowledge, and understanding of issues related to diversity, human rights, social and economic justice. Diversity is understood as the intersectionality of multiple factors including age, class, color, culture, disability, ethnicity, gender, gender identity and expression, immigration status, political ideology, race, religion, sex, and sexual orientation. In this course, students will explore social justice movements like Women's Rights, Civil Rights, and LGBTQ+.

SS2243GAE	Sports in American History	Grades 11, 12	1 Credit
*[Graduation Requirement: Social Studies Related Course]			

This course examines the development of sports in America, from the colonial period to the present. Students will explore how unorganized and impromptu athletic activities were transformed into spectator sports at the collegiate and professional level, and the ways in which sports reflected and informed issues of race, class, gender, ethnicity, and international politics. Specific topics include: the transformation of “blood sports” into acceptable athletic pursuits, such as boxing; amateurism and the rise of athletic clubs; baseball’s popularity during the first half of the twentieth century; sports heroes of the 1920s and 1930s; women’s sports; racial segregation in sports; athletic rivalries during the Cold War; and the globalization of American sports.

SS2318GAE	Sports Media Communication 1	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Social Studies Related Course]			

This course will provide students with foundational skills in sports journalism necessary to be able to implement a program in sports information, publicity, marketing and promotions. Course content includes: preparation of news releases and feature stories; publishing programs and brochures; compiling statistical breakdowns; performing research to develop narratives; working in conjunction with established media partnerships; filming and editing game contests; and serving as announcers and commentators through live streaming.

SS2318GAE	Sports Media Communication 2	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Social Studies Related Course]			

Students in this course will manage and organize collaborative teams of students in order to build the brand that is Norwalk High Athletics. Students will apply the skills and knowledge gained in the prerequisite course Sports Media Communications 1 to be prepared to take on managerial roles as key editors in organizing content and managing the workflow of the material produced.

Prerequisite: Sports Media Communication 1

SS0072GAE	Yearbook in Design	Grades 11, 12	1 Credit
*[Graduation Requirement: Social Studies Related Course]			

In this class, students will study the function, techniques, and responsibilities of yearbook design. The course will include instruction and lab activity. Students will assist with the preparation and publication of the senior yearbook. This course is recommended for students whose writing skills are firmly grounded. Students will have Photoshop lessons to design page layouts. Students will also have instructions on marketing and advertisement to sell and distribute final product. Yearbook is a permanent Legal Document: it gives students opportunities to gather points toward college admissions. It also will give students a good understanding of how to use Photoshop, Windows, and the Adobe Suite in creating pages and advertisements. Students will be assigned deadlines and tasks to complete for grading purposes. **Prerequisite:** Teacher recommendation.

Digital Media and Communication Academy at NHS

CM2302GAC	Media Consumption and Creation	Grades 9, 10	0.5 Credit Phase 1
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***[Graduation Requirement: Pathway Related Course DMCA]**

A semester-long examination of the US culture, and how the media (music, television, and film) has shaped the country. Students will also investigate the role this has in the 21st century as “new media” (internet, social networking, smart phones) are impacting the way democracy functions. Students will “act out” scenarios utilizing a variety of mediums. Students will analyze how their own opinions are shaped by their consumption of media. Students will learn the impact the content they create has on society. This course is the foundational requirement for grade 9 and 10- (Phase 1) students in the Digital Media and Communications Academy. It is open to all NHS students as well as any BMHS student that wishes to be a part of the academy.

CM8813GAE	Advanced Media Studies	Grades 10, 11, 12	1 Credit Phase 2
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***[Graduation Requirement: Pathway Related Course DMCA]**

Students will have the opportunity to build the foundation necessary to navigate the digital media world. This fundamental course will include training in the software necessary to continue in their pursuit of telling their story whether through words, images or design. Students will become well-versed in the industry standard software Adobe Suite; which includes Photoshop, InDesign, Illustrator, Premier, Character Animator, Audition, among other applications. **All students enrolled in the Digital Media and Communications Academy are required to complete this course with a passing grade. Prerequisite: Media Consumption & Design**

CM2296GAC	Digital Communications	Grades 10, 11, 12	0.5 Credit Semester 1 Phase 3
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***[Graduation Requirement: Pathway Related Course DMCA]**

This course is available for college credit through Quinnipiac University

This semester-long course will teach students about the role journalism plays in society, the impact that it has had on people and the powerful learning of Adobe *InDesign*. Students will learn the importance of developing a story, research skills, interview prep along with the skills needed to conduct an interview. The course will highlight several of the most important news stories of the last fifty years to demonstrate the role good journalism plays. Professionals from the field will regularly come in to give first-hand accounts of how the field operates in real world practices. **Prerequisite: Advanced Media Studies**

CM8857GAC	Communication Through Photography and Graphic Design	Grades 10,11,12	0.5 Credit Semester 1 Phase 3
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[Graduation Requirement: Pathway related course DMCA]

Capturing the world around you and using the visual media to communicate to others requires knowledge of appropriate software and an observant eye. This course is designed to teach digital photography, and the manipulation of imagery through Adobe Photoshop and Illustrator. Students will learn the principles of design through the use of lighting, composition as well as utilizing graphics to tell their stories. Students will create photographs and graphics that will be used for film posters, documentary films, and new story images on the website. The essential skills of utilizing images ethically to tell a story will be fostered. Students will be required to research their subjects and responsibly publish their work. **Prerequisite: Advanced Media Studies**

CM0085GAC	Film Production	Grades 10, 11, 12	0.5 Credit Semester 2 Phase 3
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*** [Graduation Requirement: Pathway Related Course DMCA]**

This course is available for college credit through Quinnipiac University

Students will have the opportunity to explore the many aspects of filmmaking in both the narrative form well as the Documentary style learning *Adobe Premiere Pro*. This student driven course will allow the participants to further develop the technical, organizational and creative skill needed to make a film. Adobe Premier software will be used to produce the content. The student will work at the Digital Media Pathway with industry professionals and Norwalk High School Faculty. **Prerequisite: Advanced Media Studies**

CM8858GAC	Audio Design and Podcasting	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course DMCA]			Semester 2
This course is available for college credit through Quinnipiac University			Phase 3

Audio Design is a hands-on course designed to allow students to create sound for various forms of media as well as becoming proficient in audio production techniques utilizing industry standard software such as Adobe Audition. Students will learn about studio operations, recording principles, sound-mixing, editing and effects processing while becoming proficient with the software. The course will provide students with the opportunity to create original sound content for a variety of film and television projects as well as the chance to work side by side with industry professionals on radio and podcast projects. Students will conduct background research, learn the art of writing a good story and develop collaboration skills necessary to produce original content. Students will also have the chance to record and produce musical content.

CM28900GAE	Digital Portfolio/ Capstone	Grades 11, 12	1 Credit
*[Graduation Requirement: Pathway Related Course]			Phase 4

Students will have the opportunity to explore the many aspects of the *Adobe Suite* and choose their own path of study. Students will research and develop a digital portfolio using the storytelling skill set they have acquired as part of the DMCA. Students will use the body of work they have created in the DMCA in order to finalize their portfolios. The students will create content that will not only promote their own efforts but will have the opportunity to work with clients in order to produce viable content in a real world setting.

Fine Arts

The Art Department offers many exciting courses for students to develop their creative expression through the visual arts. Students learn higher order thinking skills, problem solving, planning strategies, and the correct application of the elements of art and the principles of design. Working independently and collaboratively, students use traditional as well as experimental approaches to fine arts. Students create art and develop visual literacy. Students practice art history informed criticism as well as aesthetics.

Fine Art Course Sequence

9	10	11	12
Foundations of Art	Foundations of Art	Foundations of Art	Foundations of Art
Peer Assisted Art	Peer Assisted Art	Peer Assisted Art	Peer Assisted Art
Advanced Foundations of Art	Advanced Foundations of Art	Advanced Foundations of Art	Advanced Foundations of Art
Digital Illustration & Design 1	Digital Illustration & Design 1 & 2	Digital Illustration & Design 1 & 2	Digital Illustration & Design 1 & 2
Textile Arts	Textile Arts 1 & 2	Textile Arts 1 & 2	Textile Arts 1 & 2
Advanced Foundations of Art, Applied Arts I, Digital Illustration & Design 1, Drawing 1, Modern and Contemporary Art, Painting 1, Photography 1, Printmaking 1, 3D-Sculpture 1, Textile Arts 1, and , are available, however they require a prerequisite	Applied Arts I and II	Applied Arts I and II	Applied Arts I and II
	Drawing 1 UConn ECE Drawing 2	Drawing 1 UConn ECE Drawing 2	Drawing 1 UConn ECE Drawing 2
	Painting 1 & 2	Painting 1 & 2	Painting 1 & 2
	Printmaking 1 & 2	Printmaking 1 & 2	Printmaking 1 & 2
	3D Sculpture 1 & 2	3D Sculpture 1 & 2	3D Sculpture 1 & 2
	Photography 1 & 2	Photography 1 & 2	Photography 1 & 2
		Honors Portfolio AP Studio Art	Honors Portfolio AP Studio Art

AR8830GAE	Foundations of Art	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

This class is the department foundation full-year class designed to introduce students to the principles and elements of art. This course teaches students a wide variety of materials and techniques for creating art. Drawing skills, essential to the creative process, are stressed as well as painting, printmaking, and sculpture. Students are introduced to the computer lab and the Adobe Creative Suite. Students build a large art vocabulary while learning how to critique their own and others' artwork. Students are required to keep a sketchbook for homework and design ideas.

AR8831GAE	Advanced Foundations of Art	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Students taking Advanced Foundations of Art create advanced drawing, painting and collage projects while learning advanced applications of the principles and elements of art and design. Students look at, write about, discuss and create artworks influenced by master artists to guide their artistic choices as well as deepen their visual literacy. Advanced Middle School art students can by-pass Foundations of Art with a Middle School art teacher recommendation. **Prerequisite: Foundations of Art or Middle School Art Teacher Recommendation**

AR8814GAC	Peer Assisted Art	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This class is a full-year peer assisted art class designed to introduce students to the principles and elements of art by utilizing a variety of materials and techniques for creating art. This course is designed to integrate visual art content with group activities. Students with disabilities are integrated into Art class with adapted course work. Students are supported by high school art student peer mentors, Special Education paras, and the art teacher consulting with educators. **Prerequisite: Students should have one-year in art classes and are recommended by the high school school counselor.**

AR8827GAC	Applied Arts 1	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

In this class, students create products for a “client or company” by learning and utilizing fine art concepts and skills in; product/ industrial, marketing/advertising, interior, textile, environmental and set design. This class is open to freshmen taking Art 2 the other semester. Students are required to keep a sketchbook for homework and design plans. **Prerequisite: Foundations of Art, Advanced Foundations of Art or Middle School Art Teacher Recommendation**

AR8828GAC	Applied Arts 2	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This course teaches students advanced fine art concepts in; product/ industrial, marketing /advertising, interior, textile, environmental and set design. Students will work with various methods and materials to create new products for the marketplace. Through theory, practice and reflection, students will develop original approaches to solve multiple rigorous design challenges. A sketchbook for design plans and homework is required. **Prerequisite: Design 1**

AR8925GAC	Digital Illustration and Design 1	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

In this course, students will learn the principles and elements of art as they apply to digital art and design. Students will create projects modeled after real-world industry assignments, developed in Adobe Photoshop and Illustrator. Students will present a final project at the conclusion of the course. **Prerequisite: Foundations of Art, Advanced Foundations of Art or Middle School Art Teacher Recommendation**

AR8926GAC	Digital Illustration and Design 2	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

In this course, students will learn advanced principles and elements of art as they apply to digital art and design. Students will create advanced real-world projects modeled after industry assignments developed in Adobe Photoshop and Illustrator. Students will create digital art projects utilizing advanced Adobe tools. Students will create a mock company, logo and website. Students will learn copyright and fair use policies for Internet imagery and digital design. At course end, students will present a final project as an animated graphic advertisement for their company. **Prerequisite: Digital Illustration and Design 1**

AR8805GAC	Drawing 1	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This course is designed for all students who would like the opportunity to increase their drawing skills in an intense half-year course. Students explore a wide variety of drawing techniques, materials, subjects and styles. Drawing will be based on observation and imagination that will lead the student to self-discovery and awareness of his/her environment. A sketchbook/journal is required to plan and think through composition ideas. **Prerequisite: Middle School Art Teacher Recommendation**

AR8806GAC	UConn ECE Drawing 2	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This course challenges students' technical and creative skills, learning advanced principles of drawing from observation. Students create artworks in a variety of genres including: still life, perspective drawings, landscapes, and portraiture. Students use a variety of mediums including graphite, charcoal, and ink. Students will be required to submit drawing assignments to complete a portfolio. Students can earn three college credits for this course. **Prerequisite: Drawing 1 & Foundations of Art or Advanced Foundations of Art**

AR8864GAC	Modern and Contemporary Art	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

In this class, students will look at, read, talk about, and create a variety of modern and contemporary global art styles including but not limited to: Impressionism, Post-Impressionism, Cubism, Abstract Art, Surrealism, Abstract Expressionism, Pop Art, Photo Realism, Folk Art, Contemporary Crafts, Performance Art and more! Students will learn about the history of art while creating Modern and Contemporary art styles with a variety of art making methods and materials including: drawing, painting, printmaking, sculpture, and crafts. **Prerequisite:** Foundations of Art, Advanced Foundations of Art or Middle School Art Teacher Recommendation.

AR8807GAC	Painting 1	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

For the student who loves to paint, this class is designed for the student who wishes to explore and improve in all forms of painting media, techniques, and subjects. Media to include: Watercolor, Gouache, and Acrylics. Art styles will be the focus as students learn the basics of color media. As with other classes, a sketchbook is required, as the student will be using it to render sketches for painting subjects. **Prerequisite:** Foundations of Art, Advanced Foundations of Art or Middle School Recommendation

AR8808GAC	Painting 2	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

Students who would like to add to their portfolio will be challenged in this advanced painting course. They will be asked to create thematic, meaningful and current paintings; which will expose intent and mastery of media. Opportunities to work independently and to make personal choices for materials and techniques will be given throughout the semester. **Prerequisite:** Painting 1

AR8841GAC	Photography 1	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This class is an introductory course covering the basics of black and white photography. Students begin with non-camera darkroom imagery, build and use pinhole cameras, and learn how to create Images using a film camera. Students learn how to make contact sheets and to enlarge images from negatives. Students learn Digital Photography and Photoshop. **Prerequisite:** Foundations of Art, Advanced Foundations of Art or Middle School Art Teacher Recommendation

AR8842GAC	Photography 2	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This class is an extension of Photo 1 that offers students a more in depth look into how to take good quality photographic images. In this course students will learn how to process their own film and learn more advanced darkroom techniques such as using the filter system. Students will be introduced to lighting techniques both natural and manipulative. Students learn advanced Digital Photography and Adobe Suite applications. **Prerequisite:** Photography 1

AR8844HAE	Honors Portfolio	Grades 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

This class is designed for Art Students who want to build a superior portfolio, a body of work, for higher educational review. Portfolio students can be preparing for AP Studio Art, taking AP concurrently, or have finished AP Studio Art class. Students are expected to be proficient in 2D Processes. Students create a substantial (20-24 pieces) portfolio of finished artwork. **Prerequisite:** Two years of art classes.

AR8809GAC	Printmaking 1	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

Students in this course will be able to make multiple copies and editions of artwork rendered in a variety of printmaking media, techniques, and subjects. Media include: stencil, monoprint, collagraph, linoleum, woodcut, dry-point etching, and embossed prints as well as found object printmaking. In addition to making prints, students will engage in these media through historical and conceptual topics. **Prerequisite:** Foundations of Art, Advanced Foundations of Art or Middle School Art Teacher Recommendation

AR8810GAC	Printmaking 2	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

Students in this course will learn advanced printmaking techniques and processes building on previous techniques and media covered in Printmaking 1. Students work in a variety of media including; reduction printmaking, multiple layer stencil, woodcut, embossing and collage transfer. Students can independently research new methods and materials. This class encourages both collaborative and independent work. **Prerequisite: Printmaking 1**

AR8811GAC	3D Sculpture 1	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This course is a 3-dimensional art or sculpture class. Students learn to make artworks in a variety of media including; folded paper/ cardboard, papier-mâché, clay, wood, assemblage, wire, and plaster. Students learn clay/ ceramics hand building techniques. Students will learn to visualize and create artworks from 2D plans in 3D form using a sketchbook for homework and design plans. **Prerequisite: Foundations of Art, Advanced Foundations of Art or Middle School Art Teacher Recommendation**

AR8812GAC	3D Sculpture 2	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This class offers students advanced clay hand building and wheel thrown pottery techniques. Students problem solve building sculptures using more challenging applications of the principles and elements of art and design. Students create 3D artworks from a variety of methods and materials including; paper, papier-mâché, clay, wire, wood and assemblage. Students must be able to work independently and collaboratively. Students will learn to visualize and create artworks from 2D plans in 3D form using a sketchbook for homework and design plans. **Prerequisite: 3D Sculpture 1**

AR8845ACE	Advanced Placement Studio Art	Grades 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

This class is designed for students pursuing art in their higher-level educational choices. A rigorous course with art school foundation level expectations, AP Studio requires a portfolio review and summer work for acceptance. Students create a concentration of (30) quality works for review and scoring by the College Board. Students with passing exam scores earn college credits. Students are expected to take the Advanced Placement exam. The student is responsible for obtaining their summer assignments and submitting the completed work on time. **Prerequisite: Two years of art classes.**

AR8901GAC	Textile Arts 1	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This course is designed to teach students textile making, designing and fiber arts. Students will learn a variety of hand and machine sewing techniques as well fiber arts including; knitting, crocheting, weaving, macramé, embroidery, paper craft including silk screening. Students will learn historical and cultural connections to craft based techniques. Students create sketchbooks and are required to submit unit design plans. **Prerequisite: Foundations of Art, Advanced Foundations of Art or Middle School Art Teacher Recommendation**

AR8902GAC	Textile Arts 2	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This course is designed to teach students advanced textile making, designing and fiber arts. Students will learn a variety of advanced hand and machine sewing techniques as well as advanced fiber arts including; knitting, crocheting, weaving, macramé, embroidery and paper craft. Students will learn historical and cultural connections to craft based techniques. Students create sketchbooks and are required to submit unit design plans. Students will visit a Design studio or place of employment to learn about vocational educational opportunities. Students will create a final project or a Capstone experience. **Prerequisite: Textile Arts 1**

Music

Students involved in all major performing organizations are required to participate consistently in lessons and/or sectional rehearsals as part of the course content. Individualized instruction will be scheduled on a rotating basis and will meet a minimum of once a week. Students may elect to choose the same performing group for multiple years.

Music Course Sequence			
9	10	11	12
Prelude Orchestra	Prelude Orchestra	Prelude Orchestra	Prelude Orchestra
Symphonic Band	Philharmonic Orchestra	Philharmonic Orchestra	Philharmonic Orchestra
Beginning Choir	Honors Principal Orchestra	Honors Principal Orchestra	Honors Principal Orchestra
	Symphonic Band	Symphonic Band	Symphonic Band
Color Guard	Wind Ensemble	Wind Ensemble	Wind Ensemble
Winter Guard	Honors Wind Symphony	Honors Wind Symphony	Honors Wind Symphony
Winter Percussion Ensemble	Beginning Choir	Beginning Choir	Beginning Choir
Jazz Ensemble	Advanced Choir	Advanced Choir	Advanced Choir
	Chorale	Chorale	Chorale
	Honors Chamber Singers	Honors Chamber Singers	Honors Chamber Singers
	Color Guard	Color Guard	Color Guard
	Winter Guard	Winter Guard	Winter Guard
	Winter Percussion Ensemble	Winter Percussion Ensemble	Winter Percussion Ensemble
	Jazz Ensemble	Jazz Ensemble	Jazz Ensemble
Theatre Course Sequence			
9	10	11	12
Intro to Theatre Studies 1 Theatre Studies II	Intro to Theatre Studies Acting I Honors Musical Theater Performance	Acting 1 Honors Acting II Honors Play Production Honors Musical Theater Performance	Acting I Honors Acting II Honors Play Production Honors Musical Theater Performance

AR8936GAC	Introduction to Theatre Studies 1	Grades 9, 10	0.5 Credit
*[Graduation Requirement: Fine Arts]			
Theatre Studies I is an introduction to the techniques, vocabulary, etiquette, and history of the art of theatre. Students will learn fundamental theatre skills through introductory modules that explore ensemble building, stage movement, dramatic literature, playwriting, the various roles and careers in the theatre, theatre history, and acting techniques for the stage. This course emphasizes daily participation and values process over product. Students' will engage in daily activities, reading and writing assignments, and summative assessments involving performances and projects.			
AR8918GAE	Theatre Studies 2	Grades 9	1 Credit
*[Graduation Requirement: Fine Arts]			
Theatre Studies II is an accelerated introduction to the techniques, vocabulary, etiquette, and history of the art of theatre for students with previous theatre experience. Students will practice foundational theatre skills through modules that explore ensemble building, stage movement, musical theatre, playwriting, Shakespeare, technical theatre, and acting techniques for the stage. Students will engage in daily activities, reading and writing assignments, and summative assessments involving performances and projects. Theatre Studies II students will be required to participate in performances open to the community. Requires teacher recommendation from middle school.			
AR8884GAE	Dramatic Writing	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			
Dramatic writing is for students looking to create their own scripts for theatre, film, or multi-media. Students will learn dramatic structures, methods of revision, how to give feedback to their peers and be asked to write daily in a wide range of mediums including playwriting, screenwriting, animation, narrative podcasts, graphic novels, and video games. This course will ask students to create a full length project which they will have the opportunity to have read in front of an invited audience. Prerequisite: Theatre Studies 1 or teacher recommendation.			
AR8920GAE	Acting I	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			
Acting I is for experienced theater students who wish to develop as performers and are seeking performance opportunities. Students will deepen performance technique by engaging in daily vocal and physical training. They will study a wide range of acting skills and forms including classical and contemporary stage acting, improvisation, musical theater, script analysis, and film acting. Students will also develop an audition portfolio and participate in a scene study in front of an invited audience. Prerequisite: Theatre Studies 1 or teacher recommendation.			
AR8937HAE	Honors Acting II	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			
Acting II is an honors level course for advanced theatre students who are seeking pre-college acting training and competitive performance opportunities. Students will continue to develop performance technique by engaging in daily vocal and physical training as well as learn techniques to refine speech and diction. They will participate in acting competitions, auditions, and compose a portfolio of work as preparation for college auditions. Acting II students will perform frequently throughout the course, including a culminating performance of a one-act play. Requires Intro to Theatre Studies I or II and Acting I or teacher recommendation.			
AR8938HAE	Honors Play Production	Grades 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			
Play Production is an honors level, culminating theatre course that allows experienced theatre students to apply what they have learned in previous coursework to creating full productions. In the first semester, students will design, produce, and perform a one-act play directed by the instructor. During the second semester, students will self-select the work and a student director to lead a second production. This course is designed to support student capstones. It is only available to upperclassmen who have taken at least two credits of theatre.			
AR8927HAE	Honors Musical Theatre Performance	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			
This course is designed to immerse students into the study of musical performance including voice for the stage, which will be studied and practiced. Musical instructional and interpretation are the focus of the course. Focus will also include performance and preparation for auditions including the development of an audition portfolio and resume. Students learn by participating in a theatrical musical production, as cast and production staff. Students will be utilized in the cast according to their desires and abilities. The student will be responsible for the study and style of musical theatre in greater depth through research and presentation. Prerequisite or corequisite: Acting 1 or Teacher Recommendation			

AR88935GAE	Technical Theatre and Production	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Technical Theatre and Production is a practicum that will introduce students to the essential elements of lighting, scenic, costume, prop, and sound design as well as how to organize and support a production through scheduling, budgeting, and advertising. Students will be given hands-on experience with set construction, scenic painting, hanging and focusing lighting equipment, and creating and editing sound cues. They will be given extra-curricular opportunities to apply those skills to concerts and productions throughout the school year. This course requires a prerequisite of Theatre Studies I or teacher recommendation.

AR8851GAE	Beginning Choir	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Beginning choir is a mixed group of students with a desire to learn the fundamentals of voice production and to improve their natural vocal abilities.. It is designed for students with a desire to learn the fundamentals of voice production and to improve their natural voice abilities. There should be a demonstrated desire to learn basic music reading. Through the use of voice drills and the singing of solo and ensemble repertoire, students develop an awareness of the voice as an expressive and resonant instrument. Through this group, students can attain the necessary experience for singing in other auditioned choral ensembles. Areas of study include: basic music theory, music reading skills, voice production, and musical interpretation. A variety of music literature is studied, both sacred and secular. Choir members are required to participate in all scheduled school and community performances.

AR8852GAE	Advanced Choir	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Advanced choir is a group of experienced singers who have participated in other performing organizations including choir, band or orchestra. Areas of study are: basic music theory, voice production, solo and ensemble singing, and artistic interpretation. A variety of music literature is studied, including sacred and secular compositions from the master works to contemporary. Advanced choir members are required to participate in all activities that include: school assemblies, public concerts, contests, CMEA events, and exchange concerts. **Prerequisite: Beginning Choir or teacher recommendation.**

AR8862HAE	Honors Chamber Singers	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

This course is a serious study of artistic music for the select chorus musician. Music will be selected by the instructor for its aesthetic content, historical importance and variety of style. Whenever possible, the pieces will be performed in original content with regard to language and accompaniment. Students will be selected through an audition-based criterion. Honors Chamber Singers are required to participate in all activities that include: school assemblies, public concerts, contests, CMEA events, and exchange concerts. **Prerequisite: Audition or teacher recommendation.**

AR8863GAE	Chorale	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Chorale is composed of experienced singers who have previously performed in music ensembles such as choir, advanced choir, chamber singers, band or orchestra. Students will be selected through an audition-based criterion. This is a performance-based organization; therefore, students are required to participate in all designated school, community and county performances, as well as after school rehearsals. **Prerequisite: Audition**

AR8871GAE	Prelude Orchestra	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

This course is a continuation of the middle school orchestra program at a more advanced level. The orchestra plays at special programs, in other schools in the system, and at public concerts. Emphasis is placed upon good rhythm, intonation, tone, and technique. String quartets and small ensembles are offered. Students will be required to attend weekly pull-out lessons. Prerequisite: Orchestra in middle school or audition. **Prerequisite: Orchestra in middle school or audition**

AR8872GAE	Philharmonia Orchestra	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

This course is a continuation of course 8871 (Prelude) at a more advanced level. The Philharmonic Orchestra plays at special programs, at other schools in the system, and at public concerts. Emphasis is placed upon refining tone quality, artistic interpretation of music, and application of music theory and music history to informed performance practice. String quartets and small ensembles are offered. Students are encouraged (but not required) to audition for music festivals (CMEA, NEMFA, etc.). Students will be required to attend weekly pull-out lessons. **Prerequisites: Completion of Prelude Orchestra and audition.**

AR8873HAE	Honors Principal Orchestra	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

This course is a continuation of 8871 (Prelude) at a more advanced level. The Principal Orchestra plays at special programs, at other schools in the system, and at public concerts. Emphasis is placed upon elevating all elements of performance practice to the highest level in order to create a truly artistic interpretation. String quartets and small ensembles are offered. Students in Principal Orchestra are expected to participate in the Norwalk All-City Orchestra and are encouraged (but not required) to audition for music festivals (CMEA, NEMFA, etc.). Students will be required to attend weekly pull-out lessons. **Prerequisites: Completion of Prelude Orchestra and audition.**

AR8881GAE	Symphonic Band	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Symphonic Band is the initial band instrumental course. This course will survey the basic idiomatic concepts of marching band, theatrical band, harmony and theory, classical concert band, contemporary concert band, and parade band. Within the confines of the course tone production, embouchure development, intonation, rhythmic reading and accuracy and musical expression will be stressed. Public appearances are required in the venues of marching band, symphonic band, and combined bands. All participants are required to rehearse the two weeks prior to the commencement of school (band camp) for the purpose of advanced preparation in the curricular area of marching band. Out of school practice for marching band occurs in September through November. Students will be required to attend weekly pull-out lessons. **Prerequisite: Participation in middle school band or an audition.**

AR8883GAE	Wind Ensemble	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Students will have an in-depth study of marching band, theatrical band, harmony and theory, classical concert band, contemporary concert band, and parade band. Special emphasis will be placed on advanced knowledge of timbre, intonation, rhythmic reading, musical expression, sight-reading, musical interpretation, and idiomatic styles. Public appearances are required in venues of marching band, wind ensemble, and combined bands. All participants are required to rehearse the two weeks prior to the commencement of school (band camp) for the purpose of advanced preparation in the curricular area of marching band. Out of school practice for marching band occurs in September through November. Students will be required to attend weekly pull-out lessons. **Prerequisite: Participation in Symphonic Band and an Audition.**

AR8895HAE	Honors Wind Symphony	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Wind Symphony is the premiere performing organization of the band instrumental department. Instrumentation is based on one person per part except doubling in clarinet, flute, and percussion. Admission into the ensemble requires previous successful participation in Symphonic Band or Wind Ensemble and an audition. Students will have an intensive study of marching band, theatrical band, harmony and theory, classical concert band, contemporary concert band, solo repertoire, individualized regional and state adjudication, small ensemble performances, and parade band. Knowledge of timbre, intonation, rhythmic reading, musical expression, sight-reading, musical interpretation, and stylistic understanding of idiomatic styles will be coupled with an analysis utilizing nationally accepted rubrics. Public appearances are required in the venues of marching band, wind symphony, combined bands, small ensembles, and soloists. All participants are required to rehearse two weeks prior to the commencement of school (band camp) for the purpose of advanced participation in the curricular area of marching band. Out of school practice for marching band occurs in September through November. Students will be required to attend weekly pull-out lessons. **Prerequisite: Participation in Symphonic Band/Wind Ensemble and an Audition.**

AR8896GAC	Color Guard	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This is an intensive outdoor study of body, dance, staging, drill, saber, rifle, and flag styles. These seven styles will be assimilated into a singular performance idiom. Exploration, analysis, demonstration, and evaluation of contemporary performances styles will be examined utilizing nationally accepted rubrics. Public appearances are required in the venue of the marching band. All participants are required to rehearse the two weeks prior to the commencement of school (band camp) for the purpose of advanced preparation in the curricular area of marching band. Out of school practice with the marching band occurs in **September through November. Prerequisite: Membership in the marching band and an Audition.**

AR8882GAE	Jazz Ensemble	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Students will build upon their knowledge from their participation in pre-required courses and through the study of jazz, rock, gospel, blues and fusion idioms. Emphasis will be placed upon the performance and interpretation of various jazz styles, rhythms, harmony and theory, and improvisation. Public performances are required. **Prerequisite: Concurrent enrollment in Symphonic Band, Wind Ensemble, or Wind Symphony and an Audition.**

AR8897GAC	Winter Guard	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This is an intensive indoor study of body, dance, staging, drill, saber, rifle, and flag styles to prerecorded music. These seven styles will be assimilated into a singular performance idiom. This performance idiom is referred to as winter guard. Exploration, analysis, demonstration, and evaluation of contemporary performances styles will be examined utilizing nationally accepted rubrics by Winter Guard International and Musical Arts Conference. Public appearances are required in the venue of winter guard. Out of school practices and performance occur in **January through April. Prerequisite: Membership in the marching band and an Audition.**

AR8866GAC	Winter Percussion Ensemble	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Fine Arts]			

This is an intensive study of percussion through the use of performance, instruction and evaluation. The students will be exposed to a variety of musical instruments, including but not limited to, traditional marching percussion, concert percussion, pitched and non-pitched instruments. A broad range of musical styles will be explored, including but not limited to, classical, contemporary, rudimental and theatrical. Assessments will be given based on the nationally accepted rubrics from Winter Guard International and locally through the Musical Arts Conference. Public performances are required as part of the course. **Out of school rehearsals and performances will occur from December through May. Prerequisite: Membership in the marching and concert band program or by audition to the director of bands.**

World Languages

World Languages are organized sequentially within natural pathways on a continuous learning progress basis. Successful performance in one level is necessary before continuing to the next level to ensure and attain listening, speaking, reading, and writing proficiencies. Introductory World Languages courses only will be offered with sufficient enrollment. Students in Grade 8 may earn 1 High School World Languages credit for a high school level language course.

Core World Languages Sequences

9	10	11	12
Spanish 1 French 1 Italian 1	Spanish 2 French 2 Italian 2	Spanish 3 French 3 Honors Italian 3	Spanish 4 Honors French 4
Honors Spanish 2 Honors French 2 Spanish 2 French 2	Honors Spanish 3 Honors French 3 Honors Italian 2 Honors Spanish 4 Spanish 3 French 3	Honors Spanish 4 Honors French 4 Honors Italian 3 AP Spanish Language & Culture Spanish 4 French 4	AP Spanish Language AP Spanish Literature ECE Spanish Composition & Conversation AP French Language ECE French Composition & Conversation AP Italian Language ECE Italian Composition & Conversation
Native Language Spanish 1	Native Language Spanish 2	Native Language Spanish 3	Native Language Spanish 4 AP Spanish Language & Culture
Native Language Spanish 2	Native Language Spanish 3	Native Language Spanish 4 AP Spanish Language & Culture	AP Spanish Literature and Culture
Honors Native Language Spanish 2	Honors Native Language Spanish 3	AP Spanish Language and Culture	ECE Spanish Composition & Conversation AP Spanish Literature & Culture

 All World Language courses are NCAA eligible.

WL4420GAE	French 1	1 Credit
WL4411GAE	Italian 1	
WL4430GAE	Spanish 1	
[Graduation Requirement: World Languages]		

The beginning course will provide the student with a general introduction to the language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information, and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. These skills are developed through a thematic approach that stresses themes such as sports, family, shopping, school, travel, and meals. Geography is also included. The student learning goals for this course include the ability to carry on a simple conversation and practice in correct usage of basic vocabulary and language structures to enable students to function effectively within realistic settings.

WL4422GAE	French 2	1 Credit
WL4432GAE	Spanish 2	
[Graduation Requirement: World Languages]		

Continuation of the beginning course deals with fundamental skills with greater emphasis on the natural use of the language in everyday situations. This course will also reinforce the skills learned in Spanish I: listening, speaking, reading and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Reading selections are used to enhance vocabulary skills. Culture is further developed. Students will complete individual projects on selected topics. **Prerequisite: Level 1.**

WL4457HAE	Honors French 2	1 Credit
WL4456HAE	Honors Italian 2	
WL4458HAE	Honors Spanish 2	
[Graduation Requirement: World Languages]		

Level II Honors is an advanced course that focuses on the continued development of fluency, reading of authentic texts, development of conversational ease, and understanding and use of more complex grammatical structures. Increased emphasis is placed on the use of idioms, as Level II H begins with more challenging communicative skills: narrating past events orally and in writing, describing daily activities in more detail, engaging in longer communicative exchanges, reading a wide variety of texts and stories.. Integrated audio and video programs help the students to improve pronunciation, listening and speaking. This course is taught at an accelerated pace.

WL4423GAE	French 3	1 Credit
WL4433GAE	Spanish 3	
[Graduation Requirement: World Languages]		

The intermediate course reinforces and advances fundamental skills. Students review previous structures as well as learn more advanced structures. More emphasis is placed on developing a proficiency of expression using a variety of tenses with more expanded vocabulary and grammatical structures. Emphasis is placed on using the language in a meaningful way through continued use of paired/group activities, cooperative learning, hands on projects, presentations, discussion, games, music, and communicative activities. Cultural themes are developed. Writing becomes expository and less structured. **Prerequisite: Level 2.**

WL4424HAE	Honors French 3	1 Credit
WL4414HAE	Honors Italian 3	
WL4434HAE	Honors Spanish 3	
[Graduation Requirement: World Languages]		

Level III Honors is an advanced course that focuses on the continued development of fluency, reading of authentic texts, development of conversational ease, and understanding and use of more complex grammatical structures. Increased emphasis is placed on the use of idioms, on the mastery of tense usage, and on the enhancement of independent writing skills. In addition, Level III Honors stresses oral/aural proficiency, the ability to manipulate language structures, to define vocabulary, identify derivations, to use grammar functionally and accurately, to understand written texts, to think in the chosen language, and complete original writing with reasonable facility. This course is taught at an accelerated pace. **Prerequisite: Level 2 Honors.**

WL4425GAE	French 4	1 Credit
WL4435GAE	Spanish 4	

[Graduation Requirement: World Languages]

Continuation of the intermediate course places emphasis on developing speaking skills and writing. Students review previously learned structures and more emphasis is placed on developing a proficiency of expression using a variety of tenses with more expanded vocabulary and grammatical structures. Appreciation and knowledge of the Spanish-speaking world is emphasized in a meaningful way through continued use of reading, paired/group activities, cooperative learning, hands-on projects, presentations, discussion, games, music, and communicative activities. Emphasis is placed on conversational approach using language in practical solutions. Students continue with writing assignments designed to improve proficiency to a higher level. Group conversations are frequent as well as paired work with students reacting to a partner's statement. Discussion periods will be provided. Individual and/or group projects will be accomplished during the year. **Prerequisite: Level 3.**

WL4425GAE	Honors French 4	1 Credit
WL4435GAE	Honors Spanish 4	

[Graduation Requirement: World Languages]

Level IV is an advanced course that stresses oral/aural proficiency, the ability to manipulate language structures, to define vocabulary, identify derivations, to use grammar functionally and accurately, to understand written text, to think in the chosen language, and complete original writing with reasonable facility. Using excerpts from Spanish and/or French literature along with other selected cultural and historical readings, students are expected to write original compositions using vocabulary appropriate to the materials. In this course, students continue with a focus on listening, speaking, reading and writing at the intermediate ACTFL proficiency level. This course is taught at an accelerated pace. Senior students can take the Seal of Biliteracy Exam.

AP World Languages Courses

Advanced Placement (AP) classes are rigorous college courses that are offered in the high school setting. AP courses require summer assignments that are due on the first day of school. The student is responsible for obtaining their summer assignments and submitting the completed work on time. Any student who fails to meet the due date for summer assignments will receive a failing grade. Students are expected to take the Advanced Placement exam.

WL4429ACE	Advanced Placement French Language	Grade 12	1 Credit
*[Graduation Requirement: World Languages]			

This college-level course provides opportunities for students to demonstrate their proficiency in the modes of communication (Interpretive, Interpersonal, and Presentational) from the Intermediate to the Pre-Advanced range. When communicating, students in the AP French Language and Culture course will demonstrate an understanding of the culture(s), incorporate interdisciplinary topics, make comparisons between the native language and the target language and between cultures, and use the target language in real-life settings. The AP French Language and Culture course is conducted exclusively in French.

WL4429ACE	Advanced Placement Italian	Grade 12	1 Credit
*[Graduation Requirement: World Languages]			

This college-level course provides opportunities for students to demonstrate their proficiency in the modes of communication (Interpretive, Interpersonal, and Presentational) from the Intermediate to the Pre-Advanced range. When communicating, students in the AP Italian Language and Culture course will demonstrate an understanding of the culture(s), incorporate interdisciplinary topics, make comparisons between the native language and the target language and between cultures, and use the target language in real-life settings. The AP Italian Language and Culture course is conducted exclusively in Italian.

WL4439ACE	Advanced Placement Spanish Language	Grade 11, 12	1 Credit
*[Graduation Requirement: World Languages]			

This college-level course provides opportunities for students to demonstrate their proficiency in the modes of communication (Interpretive, Interpersonal, and Presentational) from the Intermediate to the Pre-Advanced range. When communicating, students in the AP Spanish Language and Culture course will demonstrate an understanding of the culture(s), incorporate interdisciplinary topics, make comparisons between the native language and the target language and between cultures, and use the target language in real-life settings. The AP Spanish Language and Culture course is conducted exclusively in Spanish.

WL4440ACE	Advanced Placement Spanish Literature and Culture	Grade 12	1 Credit
*[Graduation Requirement: World Languages]			

The AP Spanish Literature and Culture course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students develop proficiencies across the full range of communication modes (interpersonal, presentational, and interpretive), thereby honing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and cultures present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, literary criticism).

WL4428CCE	UConn ECE French Language, Culture, Grammar, and Composition	Grade 12	1 Credit
UConn: FREN3250: Global Culture 1; FREN3268: Grammar and Composition			
*[Graduation Requirement: World Languages]			

This course is aligned with the University of Connecticut's courses French 3250 (Global Culture I, 3 credits) and French 3268 (Grammar and Composition, 3 credits). The course offers an examination of oral techniques of communication in conjunction with weekly topics of conversation associated with various French and Francophone cultures. This class engages in rigorous and active oral practice through dialogues, interviews, round tables, and oral reports. Students engage in the advanced study of French texts and extensive written practice in a variety of forms ranging from compositions, essays, summaries, and film reviews. Successful completion of Honors French 4 and instructor consent is required.

WL4418CCE	UConn ECE Italian UConn: ILCS3239: Composition and Conversation I	Grade 12	1 Credit
*[Graduation Requirement: World Languages]			

This course is aligned with the University of Connecticut's course **Italian 3239 (Composition & Conversation I, 3 credits)**. Practice in written and oral composition. Syntax study. **Prerequisite: Successful completion of Honors Italian 3 and instructor approval.**

WL4438CCE	UConn ECE Spanish Composition and Conversation: Cultural Topic UConn: SPAN 3178, SPAN 3179	Grade 12	1 Credit
*[Graduation Requirement: World Languages]			

This course is aligned with the University of Connecticut's courses **Spanish 3178 (Intermediate Spanish Composition, 3 credits)** and **Spanish 3179 (Spanish Conversation: Cultural Topics, 3 credits)**. The course provides a thorough review of grammar and methodical practice in composition leading to command of practical idioms and vocabulary. It also develops speaking skills through cultural readings, group discussions, and oral presentations on selected topics concerning the Spanish-speaking world.

Prerequisite: Successful completion of Honors Spanish 4 and instructor approval.

Native Language Spanish Course Sequence

WL4530GAE	Native Language Spanish 1	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement: World Languages]			

This course is the first course of a series of four designed specifically for Native/heritage speakers. The general objectives of this course are to develop competence in students' reading and writing skills, to master certain grammar points particular to Native/heritage speakers, to help them improve their presentational skills and take into account the experiences and influences of their bilingual and bicultural upbringing. This course is for students who are fluent speaking Spanish but have basic skills in reading and writing and require support in those areas. Students will build on their competency in all four skills: listening, speaking, writing and reading their native/heritage language, with the intention to further enhance their understanding of the culture of the Hispanic World.

WL4531GAE	Native Language Spanish 2	Grades , 10, 11, 12	1 Credit
*[Graduation Requirement: World Languages]			

This course is designed to further develop the students' basic four literacy skills: Reading, Listening, Speaking, and Writing. This course aims to strengthen students' ability to communicate orally and in writing through an intensive grammar review, vocabulary building, spelling and punctuation rules of the Spanish Language. At the end of the course, students present small research projects on different aspects and issues related to the linguistic and cultural variation of the Hispanic World.

WL4531HAE	Honors Native Language Spanish 2	Grades , 10, 11, 12	1 Credit
*[Graduation Requirement: World Languages]			

This course is designed to further develop the students' reading and writing skills. Native 2 Honors is a reading and composition course that engages Native/Heritage learners in exploring social and contemporary topics with a variety of readings from newspapers, magazines, essays and online media. One of the main objectives of this course is to develop strong writing & reading skills in Spanish. Students will practice not only argumentative writing, but also practical writing, such as writing a letter or an article. In this course, students will continue reviewing and recycling the most challenging grammar topics and vocabulary in order to continue building confidence and skill in writing & reading in Spanish. This course is taught at an accelerated pace.

WL4532GAE	Native Language Spanish 3	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: World Languages]			

This course is designed to expand the students' knowledge of Spanish through readings, written essays, and oral presentations. This course aims to strengthen students' ability to communicate orally and in writing through an intensive grammar review, vocabulary building, spelling and punctuation rules of the Spanish Language. At the end of the course, students present small research projects on different aspects and issues related to the linguistic and cultural variation of the Hispanic World.

WL4533HAE Honors Native Language Spanish 3**Grades 10, 11, 12****1 Credit*****[Graduation Requirement: World Languages]**

This course aligns to the AP Language and Culture (NHS) and IB (BMHS) course outlines. Students are expected to engage in spoken interpersonal communication, engage in written interpersonal communication, synthesize information from a variety of authentic audio, visual, and audiovisual resources, synthesize information from a variety of authentic written and printed resources, plan, produce, and present spoken presentational communication; and plan and produce written presentational communication. This course is significantly more demanding in order to develop those skills measured on the Advanced Placement Examination in Spanish Language. This course is taught at an accelerated pace. Senior students can take the Seal of Biliteracy Exam.

WL4533GAE Native Language Spanish 4**Grades 10, 11, 12****1 Credit*****[Graduation Requirement: World Languages]**

This course is designed to focus on the development of techniques for written and oral formal public presentations in a variety of contexts and themes: organizing and presenting information for clear and successful presentations in Spanish. This course aims to strengthen students' ability to communicate orally and in writing through an intensive grammar review, vocabulary building, spelling and punctuation rules of the Spanish Language. At the end of the course, students present small research projects on different aspects and issues related to the linguistic and cultural variation of the Hispanic World.

WL4450CCE UConn ECE Spanish Composition, Reading, and Conversation: Cultural Topics**Grade 11 & 12****1 Credit*****[Graduation Requirement: World Languages]**

This course is aligned with the University of Connecticut's courses **Spanish 3177 (Composition & Reading for Native Spanish Speakers, 3 credits)** and **Spanish 3179 (Spanish Conversation: Cultural Topics, 3 credits)**. The course entails grammar, written composition, and readings for speakers of Spanish with little or no formal training. Emphasis is on literature. It also develops speaking skills through cultural readings, group discussions, and oral presentations on selected topics concerning the Spanish-speaking world. **Prerequisite: Successful completion of Honors Native Spanish 3 and instructor approval.**

STEM:

Math

Computer Science

Science

Mathematics

All high school students must earn an amount of four (4) math credits in order to graduate high school. Upon transitioning to 9th grade, a student may have earned one high school math credit after successfully completing the High School course in middle school.

Norwalk Public Schools provides a variety of courses in mathematics. There are courses that require prerequisite skills and mastery in order to advance. Refer to the course descriptions for prerequisite requirements prior to creating your schedule.

Honors mathematics courses are available to students in all grade levels. We offer honors level courses in Geometry, Algebra 2, and Precalculus. In addition, we offer Advanced Placement courses in Calculus, Statistics, and Computer Science. There are several one semester courses offered to juniors and seniors. Any prerequisites are listed in the course descriptions. *Subject offerings can also be found within the Multilingual Learner (MLL) section of this book.

Possible Math Course Sequences:

9	10	11	12
Intensified Algebra 1 Algebra 1	Integrated Algebra & Geometry Geometry Honors Geometry Algebra 2 Honors Algebra 2	Algebra 2 Advanced Algebra (Semester) Applied Geometry (Semester) Precalculus	Statistics Probability & Statistics (Semester) Sports Statistics (Semester) Topics in Algebraic Reasoning Calculus 1
Geometry Honors Geometry	Algebra 2 Honors Algebra 2	Precalculus Honors Precalculus Probability & Statistics Statistics	Advanced Algebra (Semester) Topics in Algebraic Reasoning Sports Statistics (Semester) Topics in Algebraic Reasoning Calculus 1
Honors Algebra 2	Precalculus Honors Precalculus Honors Geometry	Statistics Honors Precalculus AP Calculus	AP Calculus AP Statistics

MA1112GAG	Intensified Algebra 1	Grades 9, 10, 11, 12	2 Credits 
*[Graduation Requirement: 1 Math Credit and 1 STEM Related Course]			

In this course students will examine real world problems using tables, graphs, and equations. Topics include number patterns, linear equations, proportions and percent, positive and negative numbers, writing formulas, slopes and intercepts, data analysis, systems of linear equations, common laws of exponents and probability and statistics. Successful completion gives the student one credit in mathematics and one credit for a math related course. **The one additional math related credit or STEM credit does not fulfill graduation credit in mathematics.**

MA1121GAE	Algebra 1	Grades 9, 10, 11, 12	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

This course will cover many similar topics as Intensified Algebra 1, but in more depth. In addition, students will engage in an extensive study of systems of linear equations as well as an introductory study of quadratic equations and expressions.

MA1128GAE	Integrated Algebra and Geometry	Grades 10, 11, 12	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

This course is designed to develop confident knowledge of the fundamentals of algebra and geometry, material that is at the core of the study of high level mathematics. It cultivates the essential skills and habits required to make use of mathematics, including the ability to approach challenging problems and to communicate mathematical ideas clearly. The mathematical content of the course includes more advanced applications of material from Algebra I, as well as material drawn from the traditional content of Geometry and some Algebra II. Topics are woven throughout the course to build a deeper understanding.

Prerequisite: Algebra 1 or Intensified Algebra.

MA1122GAE	Algebra 2	Grades 9, 10, 11, 12	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

The major theme of this course is functions. The concept of functionality will be developed fully, and the course includes a study of linear, quadratic, exponential, and polynomial. Also included in this course is content with probability and statistics.

Prerequisite: Intensified Algebra 1 or Algebra 1. May be taken concurrently with Geometry.

MA1129HAE	Honors Algebra 2	Grades 9, 10, 11, 12	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

The operations of the complex number system, linear, polynomial, quadratic, cubic, and quartic equations, logarithms and exponents, permutations, combinations, probability, coordinate geometry, conic sections and sequences and series, will be included in the course. **Prerequisite:** Intensified Algebra 1 or Algebra 1

MA1131GAE	Geometry	Grades 9, 10, 11	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

This course is fully aligned to the new Connecticut Core Standards. Topics include: Transformations and the Coordinate Plane; Congruence, Proof and Constructions; Polygons; Similarity, Proof, and Trigonometry; Circles, and other Conic Sections; Extensions to Three Dimensions; and Applications of Probability. **Prerequisite:** Algebra 1

MA1133HAE	Honors Geometry	Grades 9, 10	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

Honors geometry includes the study of assumptions, definitions, theorems, deductive and inductive reasoning, proofs, loci, topology and non-Euclidean. Emphasis will be placed on developing a greater understanding of the logic inherent in the structure of geometry. **Prerequisite:** Algebra 1

MA1130GAC3	Applied Geometry	Grades 10, 11, 12	.5 Credit
*[Graduation Requirement: Math Credit; STEM Related Course]			

This half-year course in Geometry provides students with an in-depth learning experience where they will need to apply their knowledge of numerous fundamental geometry concepts. The concepts are based on the major areas of work found on the SAT. These topics include but are not limited to circles, right angle trigonometry, coordinate geometry, complex numbers, area and volume. Students will be able to understand the key concepts and skills necessary to be successful with SAT scenarios with and without the calculator. **Prerequisite:** Algebra 1; can be taken concurrently with Algebra 2

MA1117GAE3	Topics in Algebraic Reasoning	Grades 11, 12	1 Credit
*[Graduation Requirement: Math Credit; STEM Related Course]			

This inquiry-focused course is built around a compacted 5E instructional model, whereby students engage in hands-on activities to help activate prior knowledge and explore a series of investigations to look for patterns and make conjectures. The hands-on learning approach guides students to synthesize their learning from multiple activities so that they can explain their reasoning in a formalized way. **Prerequisite:** Algebra 2

MA1144GAC5	Advanced Algebra	Grades 11, 12	0.5 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

This course will consist of the study of the real number system, solving linear and quadratic equations with numerous applications, natural and common logarithms, sequences and series, and exponential functions with applications.

Prerequisite: Algebra 2

MA1123GAE	Precalculus	Grades 10, 11, 12	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

This course will expand the student's knowledge of functions. Polynomial, exponential, logarithmic, and trigonometric functions and their applications will be studied in depth. Also included are other topics in trigonometry, sequences and series, probability and some analytic geometry. **Prerequisite:** Algebra 2.

MA1139HAE	Honors Precalculus	Grades 10, 11, 12	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

All of the topics of Precalculus will be covered, with a more theoretical emphasis. In addition, the student will study rational functions, polar and parametric equations, and vectors. **Prerequisite:** Algebra 2

MA1148GAE	Calculus 1	Grade 11, 12	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

Calculus 1 is designed for students who have taken Precalculus, but who are not ready for Calculus at the AP Level. This course would offer students, especially seniors, a fourth year of math and give them extra time (beyond/after the AP exam) to learn most of the Calculus concepts that are taught in AP Calculus. In addition to skills remediation, topics would include limits, derivatives, applications of the derivatives, anti-derivatives, and integrations. **Prerequisite:** Precalculus.

MA1142GAC	Probability and Statistics	Grades 10, 11	0.5 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

Probability is studied intuitively and formally. Topics include permutations and selections, mathematical induction, frequency distributions and measure of central tendency, binomial distribution with applications to hypothesis testing infinite population sampling. **Prerequisite:** It is recommended that students take Algebra 2 prior to taking Probability and Statistics.

MA1153GAC	Sports Statistics	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Math Credit; STEM Related Course]			

Do NFL teams have a home-field advantage? Is Steph Curry a streaky shooter? This course teaches students how to answer these questions, and others like them, using the four-step statistical process: ask questions, collect data, analyze data, and make conclusions. Major topics include: proper methods of data collection, using graphs and summary statistics, normal distributions, rules of probability. Throughout the course, students will complete investigative projects involving athletes or teams of their choice. Through this unique approach, this course teaches statistics in a different context for all students. **Prerequisite:** Algebra 2

MA1140GAE	Statistics	Grades 10, 11, 12	1 Credit 
*[Graduation Requirement: Math Credit; STEM Related Course]			

Probability and statistics is recommended for those who want a related credit that will be beneficial to many academic, medical, social, and business careers. Statistics topics studied include describing data with graphs, distributions, histograms, and other graphical techniques. Students will also use statistical measures of center and spread to analyze data and graphical displays. Probability topics include: probability rules, probability distributions-discrete, binomial, Poisson, and normal distributions. Other topics studied are sampling design, sampling distributions, hypothesis testing and confidence intervals for one mean and one proportion samples using z-tests and t-tests. **Prerequisite:** It is recommended that students take Algebra 2 prior to taking Statistics.

MA1180GAC	Math SAT Prep	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

This semester-length (NHS) class is intended to prepare students for the *math* segments of the SAT. Teachers will provide students with activities in analytical thinking and with the skills and strategies associated with the math section of the redesigned SAT. Course materials may include SAT review materials, current assessment software programs, and previous standardized examinations. **This course does not fulfill the graduation credit in mathematics. This course is a pass/fail course.**

Advanced Placement- Math Courses

Advanced Placement (AP) classes are rigorous college courses that are offered in the high school setting. AP courses require summer assignments that are due on the first day of school. The student is responsible for obtaining their summer assignments and submitting the completed work on time. Any student who fails to meet the due date for summer assignments will receive a failing grade. Students are expected to take the Advanced Placement exam.

MA1150ACE	Advanced Placement Calculus AB	Grades 11, 12	1 Credit
* [Graduation Requirement: Math Credit; STEM Related Course]			

All topics in the College Entrance Examination Board's AP Calculus syllabus will be thoroughly studied. Topics include limits, the derivative (theory and applications), techniques of differentiation, indefinite and definite integrals, and techniques and application of integration. The graphing calculator is thoroughly integrated throughout the course. **Prerequisite:** Precalculus.

MA1141ACE	Advanced Placement Statistics	Grades 10, 11, 12	1 Credit
* [Graduation Requirement: Math Credit; STEM Related Course]			

This full year course is designed to provide the student with a college level course in statistics. Students will learn how to collect data in a meaningful way, analyze data using a variety of statistical measures, explore phenomena using probability and simulation, and select appropriate models using statistical inference. Technology such as the computer and the graphing calculator will be thoroughly integrated into the study of statistical concepts. **Prerequisite:** Algebra 2

Computer Science

Advanced Placement (AP) classes are rigorous college courses that are offered in the high school setting. AP courses require summer assignments that are due on the first day of school. The student is responsible for obtaining their summer assignments and submitting the completed work on time. Any student who fails to meet the due date for summer assignments will receive a failing grade. *This course fulfills the digital literacy requirement. All Computer Science courses are  eligible.

MA1164GAC	Computer Science 1	Grades 9, 10, 11, 12	0.5 Credit
* [Graduation Requirement: Math Credit; STEM Related Course; Digital Literacy]			

Topics covered will allow students to study programming methodology and design data structures and algorithms. Upon completion of this course, students will have an extensive introduction to the language of Java. *This course fulfills the digital literacy requirement. **Prerequisite:** Algebra I. **Recommendation:** Algebra 2

MA1165GAC	Computer Science 2	Grades 10, 11, 12	0.5 Credit
* [Graduation Requirement: Math Credit; STEM Related Course; Digital Literacy]			

Topics covered will include the introduction to JAVA programming language and the use of spreadsheet and database applications. *This course fulfills the digital literacy requirement. **Prerequisite:** Algebra 2 or Computer Science 1.

MA1168ACE	Advanced Placement Computer Science Principles	Grades 9, 10, 11, 12	1 Credit
* [Graduation Requirement: Math Credit; STEM Related Course; Digital Literacy]			

This course offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. It will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Students are expected to take the Advanced Placement exam.

MA1166ACE	Advanced Placement Computer Science A	Grades 11, 12	1 Credit
* [Graduation Requirement: Math Credit; STEM Related Course; Digital Literacy]			

The College Entrance Examination Board syllabus will be followed. JAVA language will be used. Topics covered will be object-oriented programming (OOP), features of the programming language, data types and classes, algorithms, application of computing, computer systems and social implications of computers, and a case study designated by the College Board. Students are expected to take the Advanced Placement exam.

Science

A Norwalk student must earn three (3) credits in science to graduate. Two (2) of those credits must be fulfilled in a laboratory science setting within the Life and Physical Science disciplines. Courses that meet this requirement include Biology (Life Science), Earth and Integrated Physical Science (EIPS), Chemistry (Physical Science) and Physics. In addition to the many science related courses that are available to all students, Project Lead the Way Pre-Engineering courses are available as related courses and upon successful completion, college credit can be earned. Students also have multiple Advanced Placement options in Biology, Chemistry, Physics, and Environmental Science; college credit is available in these fields by enrolling in the UConn ECE program.

*Subject offerings can also be found within the Multilingual Learner (MLL) section of this book.

Science course sequence options:

9	10	11	12
Biology	Earth and Integrated Physical Science	Chemistry	Physics
Honors Biology with EIPS	Honors Chemistry with EIPS	Honors Physics AP Biology AP Environmental Science AP Chemistry AP Physics AP Seminar	AP Biology AP Environmental Science AP Chemistry AP Physics AP Seminar

SC3326GAE	Biology (Lab Science)	Grades 9, 10, 11, 12	1 Credit
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***[Graduation Requirement: Biology/Life Science (Lab)]**



Emphasis of study will be placed on the biochemical, physiological, morphological, ecological, bacteriological, embryonic, nutritional, pathological and biographical natures of life. Upon completion of this course a student will have a knowledge of the principles on which all life depends, and an awareness of the interdependency of organisms in the biological world with reference to the balance of nature and conservation.

SC3340HAE	Honors Biology with EIPS (Lab Science)	Grades 9*	1 Credit
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***[Graduation Requirement: Biology/Life Science (Lab)]**



Honors Biology will cover topics similar to those covered in the college prep biology class: the principles and inter-relationships of living forms with reference to the balance of nature and a realistic concern for the environment. These topics will be covered in greater depth, placing more emphasis on the self-reliance of the student. Biochemistry will be emphasized, and students will be expected to write science papers and work on science projects. **Strongly Recommended: grades of "A" 7th and 8th grade science and 8th Grade science teacher recommendation (based on student's interest and motivation); students taking and obtaining a grade of "B" or better in Algebra in 8th grade.**

SC3304GAE	Earth and Integrated Physical Science (Lab Science)	Grade 10, 11	1 Credit
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***[Graduation Requirement: Chemistry/Physical Science; Science Related Course; STEM Related Course]**



Emphasis of study will be placed on students' understanding of the interconnections and feedbacks among the geosphere, hydrosphere, atmosphere, and anthroposphere as well as the physical aspects of motion, energy, forces, and waves and technology. Students will study climate systems and climate change, the human impacts on Earth systems and issues of human sustainability, current global and regional data sets, the systems and transfer of energy, laws of force and motion, and waves and technological applications. Students will make projections for the future, analyze space systems and research, and use engineering design concepts to evaluate future societal choices in the earth, space, and physical sciences. Upon completion of this course a student will have a knowledge of principles including but not limited to: energy futures, resource management, space exploration and structures, land use, environmental impacts, pollution regulation, and applications of motion, waves, and energy. **Prerequisite: Biology**

SC3391GAC	Everyday Chemistry	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

This course is a project-based, consumer chemistry course that will examine the chemistry behind everyday life: movie special effects, toys, foods, art, and forensic chemistry. This course takes a hands-on approach with each unit beginning with a challenge task. Students will perform experiments and investigations to meet their unit challenge. This semester related course is not a substitute for a full year lab Chemistry class.

SC3348GAE	Chemistry (Lab Science)	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Chemistry/Physical Science (Lab)]			NCAA

This course covers the following topics: properties of materials, the transformations which matter undergoes, the conditions affecting those transformations and the nature and amount of energy released or absorbed in these changes, the uses of materials and creation of new substances. Emphasis is placed upon mathematical application to chemistry and an extensive degree of laboratory work. Recommended C or better in the prerequisite courses. **Prerequisite: Intensified Algebra 1 or Algebra 1 and Biology**

SC3341HAE	Honors Chemistry with EIPS (Lab Science)	Grades 10, 11	1 Credit
*[Graduation Requirement: Chemistry/Physical Science (Lab)]			NCAA

This course is for students in the accelerated science sequence and provides an in-depth concentrated study of topics studied in high school chemistry. The work is rigorous and challenging and laboratory activities constitute a major part of this course's curriculum. Students are expected to work at a higher level and complete a project. **Prerequisite: Biology; Co-requisite: Algebra 2**

SC3361GAE	Physics (Lab Science)	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			NCAA

Physics is the study of matter and energy including an introduction to the mechanics of solids, liquids and gasses, wave motion, sound, heat, magnetism, electricity, light and other concepts in modern physics. The fundamental principles and concepts of each topic are studied and applied through problem-solving and laboratory experimentation. Emphasis is placed on experience integrating physics and mathematics. **Prerequisites: Biology and Algebra 2 or Geometry**

SC3369HAE	Honors Physics (Lab Science)	Grades 11, 12	1 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			NCAA

Honors Physics is an in-depth study of physics. Demands will be placed on the student to work independently in the classroom as well as the laboratory. The student will be expected to complete both long and short term outside projects and research as well as to master the use of sophisticated equipment including computers. The honors course will emphasize quantitative physics. Students will be expected to handle linear and quadratic equations and geometry with ease and trigonometry when needed. Problems involving several physical relationships will be stressed as well as derivation of physical relationships.

Prerequisites: Biology and Algebra 2 or Geometry; Co-requisite: Precalculus

Advanced Placement Science Courses

Advanced Placement (AP) classes are rigorous college courses that are offered in the high school setting. AP courses require summer assignments that are due on the first day of school. The student is responsible for obtaining their summer assignments and submitting the completed work on time. Any student who fails to meet the due date for summer assignments will receive a failing grade. Students are expected to take the Advanced Placement exam.

SC3330ACE	Advanced Placement Biology (Lab Science)	Grades 11, 12	1.5 Credits
*[Graduation Requirement: STEM Related Course; Science Related Course]			NCAA®

This course covers principles and concepts in cellular biology, biochemistry, anatomy, physiology, heredity and evolution. Students are expected to contribute to class through seminars, demonstrations of significant laboratory skills, preparation of scientific papers and readings of science journals. Completion of a research project is required. **Prerequisite:** Biology and Chemistry. **Course runs concurrently with UConn ECE Biology.**

SC3350ACE	Advanced Placement Chemistry (Lab Science)	Grades 11, 12	1 Credit
*[Graduation Requirement: STEM Related Course; Science Credit]			NCAA®

The AP Chemistry course covers topics such as the structure of matter, kinetic theory, chemical equilibrium, chemical kinetic and basic thermo-dynamics. **Prerequisite:** Chemistry; **Co-requisite:** Algebra 2 or Precalculus.

SC3370ACE	Advanced Placement Physics 1 (Lab Science)	Grade 11, 12	1 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			NCAA®

AP Physics 1: Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. **Co-requisite:** Precalculus.

SC3383ACE	Advanced Placement Environmental Science	Grades 11, 12	1 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			NCAA®

This course is designed to be the equivalent of an introductory university course in environmental science. It is an incredibly interesting, complex applicable science that is constantly changing and expanding. It is a rigorous laboratory science course that stresses scientific principles, process, and analysis while also providing opportunities to explore the many social, political, economic, and ethical issues that are relevant to the environmental topics studied. **Prerequisite:** Biology and Chemistry.

SC3454ACE5	Advanced Placement Seminar	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

This course is one of the most rigorous AP Courses offered by College Board and prepares students for advanced research opportunities in their future education and professional careers. AP Seminar is the first of a two course sequence designed to engage students in cross-curricular conversation that explore real-world topics and issues by engaging in diverse perspectives. Students will analyze literary and non-fiction texts, synthesize information from multiple sources, and express their own unique perspectives in various formats. This course prepares students for AP Research and is required to earn the AP Capstone degree. The framework for this course focuses on the QUEST pedagogical framework: Question & Explore, Understand and Analyze, Evaluate multiple perspectives, Synthesize ideas, and Team, Transform & Transmit. To pass the AP test, students must complete a Team Project & Presentation (20%), Individual Research-Based Essay (35%), and an End-of-course exam (2 hours).

Science STEM Courses

SC3338GAE	Human Anatomy and Physiology (Lab Science)	Grades 11, 12	1 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

Human Anatomy and Physiology includes the study of all structures within the major organ systems of the human body. The morphology of these systems will be directly correlated with how major structures are able to function. This course is designed to examine a healthy state of the human body in comparison with the abnormalities and their physiological effects that result from disease. A comprehensive review of biology, chemistry, and other biological sciences will be integrated throughout this full year course. Dissections will serve as a significant form of assessment allowing practical application of the knowledge attained throughout the semester. Course material will be covered in depth and at a demanding pace. Course material will be covered in a manner that is conducive to students of all backgrounds and abilities to learn. **Prerequisite: Biology and Chemistry**

SC3336HAE	Honors Anatomy and Physiology (Lab Science)	Grades 11, 12	1 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

Human Anatomy and Physiology includes the study of all structures within the major organ systems of the human body. The morphology of these systems will be directly correlated with how major structures are able to function. This course is designed to examine a healthy state of the human body in comparison with the abnormalities and their physiological effects that result from disease. A comprehensive review of biology, chemistry, and other biological sciences will be integrated throughout this full year course. Dissections will serve as a significant form of assessment allowing practical application of the knowledge attained throughout the semester. Course material will be covered in depth and at a demanding pace. **Prerequisite: Biology and Chemistry**

SC3441GAC	Drone Engineering and Operation	Grades 9, 10	0.5 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

The Milestone C team of aerospace professionals employ cutting-edge technologies and techniques to equip students with key professional skills pertinent to the drone industry and the engineering field at large. During this course students will learn about basic aerodynamics, unmanned aircraft architecture, and drone flight dynamics before applying the engineering process to design, build, and test fly their own drones in small teams, emulating a real-world aerospace engineering program from beginning to end. Following requirements analysis, design, and manufacturing students will perform flight tests using their First-Person View (FPV) piloting systems on their drones. This one-of-a-kind aerospace experience culminates in a drone challenge, allowing student teams to compete against each other by applying the knowledge, skills, and experience gained during the course.

SC3383GAC	Environmental Science	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

An introduction to the biological and non-biological factors of the environment and their effects on environments and inter-environmental relationships, including an investigation into methods of control and management of human-populated environments. Environmental outdoor laboratory sessions in the Norwalk area are part of the course. **Prerequisite: Biology**

SC3385GAC	Forensics	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

Forensics is the application of science to those criminal and civil laws that are enforced by police agencies in a criminal justice system. Discussion in this course will be limited to only those areas of chemistry, biology, physics, and geology that are useful for determining the value of crime scene and related evidence. Work in this course will center around the science and technology of evidence collection. This course will be a comprehensive review of biology, chemistry, physics and other science topics. Topics covered will include fingerprinting, body fluids, DNA typing, fire tread analysis, hair and fiber analysis, metallurgy, polygraph testing, ethics, and legal issues. **Prerequisite: Biology and Chemistry**

SC3335GAC	Genetics	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

This course is designed to educate students about molecular basis and application of Genetics. Topics include, but are not limited to mitosis and meiosis, birth defects, Mendelian genetics, patterns of inheritance, sexual development and inheritance, pedigrees, structure and function of nucleic acids, transcription and translation, DNA mutation and repair, genetic disorders, karyotypes, allele

frequencies, genetic engineering, and biotechnology. This course should be of particular interest to college bound students with ambitions toward medical or health-related careers. **Prerequisite: Biology**

SC3440GAC	Introduction to Robotics	Grades 9, 10	0.5 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

Robotics is a lab-based course that uses a hands-on approach to introduce the basic concepts of robotics, focusing on the construction and programming of autonomous mobile robots in addition to learning the fundamentals of open loop systems using analog and digital sensors. Course information will be tied to lab experiments; students will work in groups to build and test increasingly more complex mobile robots, culminating in an end-of-semester robot contest. We will be using VEX Robotic Design System as our platform. Students will be divided into groups and complete a variety of robot construction and programming activities within the confines of these groups.

SC3332GAC	Marine Biology	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

This course is designed as a marine environmental study focusing on the fauna and flora of the intertidal zones, estuaries and marshlands of **Long Island Sound**. This course will include field trips to these areas, the use of instruments and charts to collect data from a variety of marine environments and laboratory exercises to identify and classify marine organisms. Significant aspects of physical and chemical oceanography will be integrated into the course of study. Rain, snow, mud and water conditions will be encountered. **Prerequisite: Biology**

SC3388GAC	Meteorology	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

Meteorology is the study of earth's gaseous envelope, its atmosphere and its role as it processes the sun's daily assault of energy. Storms, winds, climate patterns, seasons all relate their characteristics to the interaction of the sun's energy and earth's atmosphere. Topics include atmospheric structure, composition and motion; atmospheric evolution throughout earth's history; understanding and making observations using standard meteorological tools and instruments; daily and long-range weather forecasting; effects of severe weather on the environment; humanity's continuing struggle to prepare for the consequences of living in the path of destructive storms or extreme weather conditions. **Prerequisite: Biology and EIPS (BMHS).**

SC3434GAC5	Public Health and Epidemiology	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Science Related Course; STEM Related Course]			

Public Health and Epidemiology investigates introductory level epidemiology principles, concepts and procedures useful in the surveillance and investigation of health-related events. Some topics will include Disease Control and Prevention; Epidemiology; Outbreak Investigations; Preparedness and Response; and Surveillance. Basic microbiology and vaccinations, universal precautions, and biostatistics concepts will also be integrated. **Prerequisite: Biology and Algebra 1; Co-requisite: Chemistry**

SC3456GAC	Sport Science	Grades 10, 11, 12	0.5 Credits
*[Graduation Requirement: STEM Related Course; Science Related Course]			

The course is designed to engage students in a variety of sciences as it pertains to sports, athletes, and exercise. The course units are Kinesiology and Exercise Science; Nutrition and Cellular Processes; and Physics. Each unit will begin with a phenomenon that students can connect with and will drive investigations throughout the lessons. Students will be challenged to demonstrate their understanding through assessments, investigations, interviews of athletes, research, scientific modeling, and projects. The course will develop 21st century skills as it will utilize simulations, technology, and virtual experiences to round out topics of study. The course also lends itself to alignment with Senior Capstone Projects. Below is a general scope and sequence (including an estimated timeline) of the themes, topics, and concepts that are to be covered in "Sports Science". **Prerequisite: Biology**

The following Science STEM Elective Courses are  eligible courses.

- Astronomy
- Drone Engineering and Design
- Environmental Science
- Forensics
- Genetics
- Human Anatomy & Physiology
- Introduction to Robotics
- Marine Biology
- Meteorology
- Public Health and Epidemiology

Physical Education & Health Education

PE9001GAC	Physical Education	Grades 9	0.5 Credit
PE9002GAC	Physical Education	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Physical Education and Wellness]			

Physical Education is a comprehensive program that teaches students the skills and concepts necessary to lead a healthy lifestyle. Credit earned in physical education counts toward honor roll, graduation, and rank-in-class. *Students must pass 1 credit of physical education and wellness to graduate, which includes the state required physical fitness test.*

PE9009GAC	Peer Assisted Physical Education	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Physical Education and Wellness]			

Peer Assisted Physical Education will be provided in accordance with the student's Individualized Educational Plan. The program is designed to develop physically educated students who demonstrate competency in motor skills and movement patterns needed to perform a variety of physical activities, and understands movement concepts, principles, strategies, and tactics as they apply to the learning and performance of physical activities. The student should also exhibit responsible personal and social behavior that respects self and others in physical activity settings.

PE9020GAC	Aquatic Fundamentals (Swimming)	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: Physical Education and Wellness]			

Whether you are only in, on, or around the water in the summer, you live near the beach or have a pool, you want to swim for exercise or pleasure, already know the basics or are beginning, this semester course is for all grades and abilities. Designed for all levels, classes allow swimmers to develop good habits in, on, and near water, become comfortable in the water, learn and refine new strokes, and become stronger, safer swimmers.

PE9021GAC	Lifeguarding	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Physical Education and Wellness]			

The American Red Cross lifeguarding classes are designed with your learning style in mind. The American Red Cross Lifeguard Manual contains skills sheets and references to help you understand the importance of water safety and arm you with all of the knowledge necessary to help save lives and avoid injury. At the culmination of the course, students will take the lifeguarding test for the opportunity to be a certified lifeguard. **Students must be at least 15 years old on or before the final scheduled session of the course.**

PE9105GAC	Health Education 1	Grades 9, 10	0.5 Credit
PE9106GAC	Health Education 2	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Health and Safety]			

The health courses develop the concept that a person's health is greatly influenced by the kind of information that a person has and the way this information is used in making decisions about the individual's life. Life skills integrated throughout coursework are: accessing reliable information, advocacy, analyzing influences, decision making, goal setting, and not limited to student self-management. The Health Curricula focuses on Four State standards: Healthy and Active Life, Injury and Disease Prevention, Human Growth and Development, Substance Abuse Prevention. Students must pass 1 credit of health and safety to graduate.

PE9024GAC	Responding to Emergencies	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Courses]			

The primary purpose of the American Red Cross Responding to Emergencies: Comprehensive First Aid/CPR/AED program is to help students recognize and respond appropriately to cardiac, breathing and first aid emergencies. The courses in this program teach students the knowledge and skills needed to give immediate care to an injured or ill person and to decide whether advanced medical care is needed. Upon successful completion of all skills and assessments, students will earn the appropriate American Red Cross certification.

Pathway Related Courses:

Business

Family Consumer Science

JROTC

Multilingual Learner (MLL) Education

Specialized Education

Business

The Business Department offers courses in both the Business Administration and Management and Computer Studies. The skills and business methods taught in these courses will provide valuable preparation for students who are planning for a career in business, computer technology as well as other career paths.

AR5501GAE	Principles of Business	NHS Grades 9, 10	1 Credit
*[Graduation Requirement: Pathway Related Course]			

Students will apply and connect basic business principles to current market trends and opportunities. Instruction includes product innovation, competitive environments, and economic decision making. Students will explore methods to increase individual and company productivity as they look at situations from both a business owner and employee point of view. Major business concepts include: economics, leadership, entrepreneurship, management, marketing, finance, operations, human resources, and the government's effects on business. The course will offer current events, case studies, self-directed projects and activities that allow students to collaborate as they would in a business environment.

AR5561GAC	Business Law	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

This course involves the principles of personal and business law. Facets of law covered include Constitutional Statutes, Common Law, Law of Contracts, Law of Sales, Criminal Law, Cyber Law, and Tort Law. This course is geared to help students understand the principles of law that affect their everyday personal and business life. Students will understand how the technological advances of the digital age have impacted the regulation and moderation of businesses. Students will examine current events related to legal topics that impact consumer and corporate interests. Students will compare and contrast rulings from previous legal cases and examine their impact on business.

AR5603GAC	Career Readiness	Grade 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

Career readiness is the process of preparing students with the essential skills they need to find, acquire, maintain, and grow within a job. This course will help best prepare students with the advice, skills and knowledge they need to make important decisions on life after high school including what college to attend, what major(s) to pursue, what certificate to obtain and more.

AR5502GAC	Computer Applications	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement: STEM Related Course; Digital Literacy]			

This course is essential to each student's development of technological understanding and skills which are needed at both the high school and college level, as well as post-secondary employment. Instruction will focus on:

- 21st Century Skills - Students will focus on developing their digital literacy skills through social media literacy, digital footprint exploration, and evaluating digital sources.
- Word Processing - students will create and edit business documents as well as review and apply MLA paper formatting rules.
- Presentations - students will research, create and deliver a presentation with illustrations and shapes on a topic of their choice
- Spreadsheets - students will create a worksheet to organize data, visually present data using embedded charts and graphs, and learn to use formulas and functions.

AR5538GAC	Computer Construction and Repair	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: STEM Related Course; Digital Literacy]			

This course is interactive and provides students with the knowledge of opportunity to assemble a multimedia computer. An overview of available career and certification options will be provided through a heavy emphasis on technical readings and practice exams. Topics covered will include the different types of operating systems, motherboards, CPUs, power supplies, expansion cards, and memory. Students will also research current industry standards for computer construction as older components are updated or become obsolete. **Recommended: Computer Applications. *This course fulfills the digital literacy requirement.**

AR5506GAC	Discovering Careers	Grades 9 & 10	0.5 Credit
*[Graduation Requirement: Pathway Related Course; Digital Literacy]			

This course is an opportunity for students to direct their attention toward an area of interest that could develop into a career path; helping to identify high school and college course offerings related to their career choices. By developing a better understanding of their interests, values, strengths, personality and desired lifestyle, students can make more informed decisions about their future. Students will learn about resume building, interviewing skills, networking and adopting professional workplace attitudes and skills to succeed in the workplace. Students will also learn about the impact entrepreneurship could have on their career as we examine potential business opportunities within the field.

AR5563GAE	Entrepreneurship (Starting a Business)	Grades 10, 11, 12	1 Credit
AR5563HAE	Honors Entrepreneurship	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Pathway Related Course]			

In Entrepreneurship class students develop the following 21st century skills: innovative problem solving techniques, technology resource management, collaboration, and planning skills. Students learn the necessary steps to successfully plan, create, evaluate, and improve new business ideas and opportunities. Through hands-on projects and activity-based learning, students will engage in team building and collaborative activities to recognize opportunities and develop a business plan. Our student-centered learning model allows students to problem-solve complex tasks such as raising capital for your start up, create business expectations, measure productivity and profitability and analyze entrepreneurial activities. Students will progress through different operations for developing and market testing business ideas, the processes of starting a business, the acquisition of resources, and the key components of a business plan.

Honors Entrepreneurship fosters a culture of innovation and creativity. This course covers the development process of a new venture. Special emphasis is placed on decision-making and problem solving in society through an understanding of opportunity recognition, economic/financial models, new idea creation, and advanced entrepreneur-related concepts. Students will develop essential skills through hands-on projects and activity-based learning. Group based collaborative activities will teach students to recognize opportunities and develop a new business idea. Student centered learning allows students to problem-solve complex tasks, create business expectations, and analyze entrepreneurial activities. *NCC Credit Equivalency Credit based on teacher recommendation

AR5552GAE	Accounting	Grades 10, 11, 12	1 Credit
AR5552HAE	Honors Accounting	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Pathway Related Course]			

Accounting 1 is an introduction to the basic principles of Accounting, and how to account for business transactions. Emphasis on the understanding of how financial statements are prepared, and how they are used as a basis for decision making by business owners, investors, creditors, government and others interested in the financial condition of an economic entity and the result of its operations. The Honors section includes additional assessments and applicable projects. *NCC Credit Equivalency Credit based on teacher recommendation

AR5569GAC	Marketing	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

This course consists of the fundamental skills of marketing including: planning and developing products, pricing, placement, and promotion with a focus on the customers' needs and wants. Students will analyze different target markets and strategies to effectively reach them. Major companies will be included in case studies and profiled for modern marketing techniques.

AR5566GAC	Sports and Entertainment Marketing	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

Students will undertake an examination of the art and science of marketing through the lens of the 21st century's sports and entertainment industries. The course will have a particular emphasis on marketing through digital platforms and the ever-changing role of social media influencers. Students will develop analytical skills by applying the 4 Ps of the "marketing mix" (price, product, place and promotion) to these increasingly all-digital worlds. The availability of precise market segmentation data will be studied as will the analytical tools available through various on-line sources. As they develop their marketing acumen, students will address personal and business responsibility in on-line marketing and the challenges of access to nearly limitless personal consumer information. Central to the course will be the students' development of digital media literacy. Topics to be considered will be the creation of and marketing of NFTs, the special role of sports celebrities in society, the loosening of restrictions on collegiate athletes to engage in self-promotion and the challenges to traditional advertisers from streaming services.

AR5542GAC	Principles of Personal Finance	Grades 9, 10, 11	0.5 Credit
*[Graduation Requirement: Financial Literacy Course]			

This course is designed to prepare students for financial success. Through financial technology software, it lays the groundwork for understanding the importance of saving early and analyzing how to mathematically avoid making poor financial decisions. The course focuses on developing decision-making and goal setting skills, understanding the relationship between career choices and income, creating numerically sound budgets, analyzing paychecks, and obtaining and utilizing credit wisely.

AR5543GAC	Personal Finance	Grades 11, 12	0.5 Credit
*[Graduation Requirement: Financial Literacy Course]			

This course is designed to prepare students for financial success. Through technological and numerical analysis it lays the groundwork for understanding the importance of saving early and how to avoid making mathematically unsound financial decisions. The course focuses on developing decision-making and goal setting skills, understanding the relationship between career choices and income, creating budgets using various software options, analyzing paychecks, and developing and utilizing credit wisely.

AR5565GAC	Principles of Investing	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: Financial Literacy Course]			

This introductory course helps students use technology skills and digital tools to develop a thorough understanding of the financial concepts, market theories, opportunities and risks that apply to investing in the stock market, bonds, mutual funds, and ETFs. Students will develop and utilize research and analysis skills to determine which investments are the most attractive to them. Students will use digital tools and resources to assess risk and measure recent and potential growth and compare data, financial ratios, and performance from financial statements to make more informed investment decision making.

Through an on-line investment simulation, students will learn how to apply the above math and financial skills to learn about corporations, develop and manage an investment portfolio, buy and sell stocks on an exchange, and to evaluate market performance with market indexes.

AR5515GAC	Video Game Design	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: STEM Related Course Digital Literacy]			

This STEM course will introduce students to the world of video game design and development, learning all aspects of the creative, business, and technological components. Students will examine history, structure, and strategy of game development. Overall creation of the computerized video game will include storytelling, characters, game play, levels, and audio content. Participants will learn key programming constructs using GameMaker software. By the end of the course, students will have created a computerized video game. This course is an introductory-level course that does not require a background in computer programming. It is important that students are proficient in English as coding requires it.

AR5514GAC	Web Page Design	Grades 10, 11, 12	0.5 Credit
*[Graduation Requirement: STEM Related Course; Digital Literacy]			

In this course students will build and maintain professional websites utilizing HTML and other web site development software such as Adobe Dreamweaver. Students will be able to understand the role the Internet plays on our daily lives and the impact it has on business success. Students will be able to identify the importance of creating a professional website with the proper content and structure. Students will apply daily applications in creating websites from several perspectives and web designing stand points. Students will complete various activities that allow them to create, evaluate and improve web design through experiences and research. It is important that students are proficient in English as coding requires it.

Family and Consumer Science

Family and Consumer Science courses provide students with activity-oriented experiences to develop leadership, problem solving, communications, employability, interpersonal and technology skills applicable in the family, workplace and community.

AR6669GAC	Principles of Culinary Arts	Grade 9, 10	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

Through a combination of demonstration and hands-on practice, students will be introduced to the basic principles of cookery, including recipe interpretation, measurements, food safety, and basic cooking methods.

AR6668GAE	Culinary Arts 1	Grades 10, 11, 12	1 Credit
*[Graduation Requirement: Pathway Related Course]			

Students will learn using the industry-standard Prostart 1 curriculum. They will discover what makes a restaurant successful and examine principles of nutrition, food production and service. Students will prepare and serve a variety of foods in an industrial kitchen and visit local hotels and restaurants. **Prerequisite:** Principles of Culinary Arts.

AR6670GAE	Culinary Arts 2	Grades 11, 12	1 Credit
*[Graduation Requirement: Pathway Related Course]			

Students will learn using the industry-standard Prostart 2 curriculum. Students will apply basic principles of food production and service covered in year one. They will extend their knowledge and understanding of cold kitchen, ethnic and regional cuisines, baking and pastry arts, and dining room management through practical application. **Prerequisite:** Culinary Arts 1.

AR6671GAE5	Culinary Arts 3	Grades 11, 12	1 Credit
*[Graduation Requirement: Pathway Related Course]			

Students will apply theory and practical knowledge through techniques learned in Culinary Arts 1 and 2. Students will conduct research and produce special projects and will assist the head chef in preparing and catering events within the school building and off campus locations as well. **Prerequisite:** Culinary Arts 1 and 2

JROTC / Aerospace (Air Force)

The mission of the Air Force Junior Reserve Officer Training Corps (AFJROTC) is to develop citizens of character dedicated to serving their nation and community. All Aerospace Science courses strive to build better and more successful citizens through academic classes, leadership and community service opportunities, physical fitness classes, and co-curricular activities. Students who take full advantage of the program, inside and outside the classroom, will finish with experience and skills that make them highly competitive for higher education and scholarship opportunities or employment.

Cadets are required to wear the uniform once a week to all classes. In uniform, the student is required to meet USAF grooming standards as they relate to hair, jewelry, earrings, facial hair, etc. Prospective cadets should make certain they know these requirements prior to enrollment. Failure to wear the uniform or meet grooming standards will result in failure of the course.

Aerospace Science and Leadership 1: Grades 9, 10, 11, 12 (New Cadets Only)		
AR9281GAE	Milestones in Aviation History & Traditions, Wellness, and Foundations of Citizenship	1 Credit
*[Graduation Requirement: Pathway Related Course]		

The Aerospace Science class is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations and flight, then progresses through time to future developments in aerospace, with an introduction to cyber technologies. The Leadership class will introduce cadets to the history, organization, mission, traditions, goals, and objectives of JROTC for all services. It introduces key military customs and courtesies, how to project a positive attitude, and examines the principles of ethical and moral behavior. It provides strategies for effective note taking and study skills for academic success. The Wellness program seeks to motivate cadets to lead active, healthy lifestyles beyond high school and into their adult lives.

Aerospace Science and Leadership 2: Grades 10, 11, 12 (Returning Cadets)		
AR9282GAE	Science of Flight & Principles of Management	1 Credit
*[Graduation Requirement: Pathway Related Course]		

AS-200: The Science of Flight is an introductory course that focuses on how airplanes fly, how weather conditions affect flight, and the human body, and flight navigation. The course is designed to complement materials taught in math, physics, and other science-related courses. LE 400: Fundamentals of Management provides an introduction to basic management concepts and skills, especially as they relate to managing in a JROTC unit. Along the way, you will learn some of the history of management studies and encounter elements of more recent management research. This is a two semester course for all returning cadets. **Prerequisite:** Aerospace Science and Leadership 1

Note: Our curriculum changes annually based on a four-year cycle. Aerospace Science 1 is for new cadets and offered every year. The following are the additional academic courses covered over the cycle for returning cadets:

- Aerospace Science 2: The Science of Flight; Principles of Management
- Aerospace Science 3: Cultural Studies; Life Skills
- Aerospace Science 4: Exploring Space; Communications, Awareness, and Leadership

Multilingual Learner (MLL) Education

The Norwalk Public Schools' (NPS) Family Center identifies Multilingual Learners (MLLs) through the Home Language Survey and administers the English LAS Links, Spanish LAS Links (if applicable) to determine appropriate course placement and services. Once designated as MLLs, students are tested annually on the LAS Links until they reach the State of CT Department of Education Multilingual Learner Exit Criteria. The NPS Family Center, in collaboration with school administrators, takes into consideration a student's prior educational history as individual student transcripts are reviewed for credit transfers. Recommendations are approved by the Assistant Principal in charge of registration at each high school. All MLLs and their families are invited to attend an orientation meeting to welcome them into the NPS school community and to discuss placement recommendations, services, and accepted credit transfers. In case families are unable to make said orientation, families are informed in writing by the school's Assistant Principal or their designee.

Below are the placement recommendations for MLL students in English and Math courses. Entry points may vary based on the students' transferred credits and LAS Links Placement scores.

MLL Course Placement Process for English

- New Arrivals with 0-1 years/LAS Level 1 will go into **English Foundations**. New Arrivals with LAS Level 2 will go into **English Development and/or English Literature**. New Arrivals with LAS Levels 3 or 4 go into **Transition English or English 1**, co-taught with an MLL teacher. Then, MLL students will proceed by following the English course sequence.
- Multilingual Learners with 2 years or more in the United States will be placed in English 1 or Transition English and co-taught with a MLL teacher.

MLL Course Placement Process for Content-area Subjects

- It is highly recommended that placement of bilingual content-area teachers be used to support MLL students. In the absence of a bilingual content-area teacher, school administrators can staff content-area classes using a co-teaching model with an MLL teacher or with a Bilingual Paraeducator.
- Bilingual Paraeducators should be assigned to a content area teacher that is not bilingual or not an MLL teacher to best support MLLs in learning the content and provide MLLs access to the curriculum.

MLL Course Sequence by Content:

Subject Area	First Course (Newcomers)	Second Course	Third Course	Fourth Course
English (New Arrivals, 0-1 year completed in the U.S.)	English Foundations (2 credits) *1 credit goes to a Humanities elective	English Development (1 credit) English Literature (Can be taken concurrently with English Development) (1 credit)	Transition English (grades 11-12) (1 credit) *co-taught with MLL teacher	English 2 (1 credit) *co-taught with MLL teacher <i>or</i> Senior Core English Course (1 credit)
English	English 1 (1 credit) *co-taught with MLL teacher <i>or</i> Transition English (grades 9-10) (1 credit) *co-taught with MLL teacher	English 2 (1 credit) *co-taught with MLL teacher	English 3 (1 credit)	Senior Core English Course (1 credit)
Math	Bilingual Math Foundations (2 credits) Bilingual/Dual certified Math teacher, or co-taught with MLL teacher or Bilingual Aide	Intensified Algebra 1 (2 Credits) Bilingual/Dual certified Math teacher, or co-taught with MLL teacher or Bilingual Aide	Integrated Algebra/Geometry <i>or</i> Algebra 2 (1 credit) *Dual certified Math teacher, or co-taught with MLL teacher or Bilingual Aide	Geometry (1 credit)
Social Studies	Bilingual (Spanish) World History *Dual certified SS <i>or</i> World History (1 credit) *Co-taught with Bilingual Aide	Bilingual (Spanish) US History *Dual certified SS <i>or</i> US History (1 credit) *Co-taught with Bilingual Aide	Civics (0.5 credit) *Co-taught with Bilingual Aide	SS Related Course
Science	Bilingual Biology (1 credit) *Dual certified Science teacher, or co-taught with Bilingual Aide	Earth and Integrated Physical Science (1 credit) *Dual certified Science teacher, or co-taught with Bilingual Aide	Chemistry (1 credit) *Dual certified Science teacher, or co-taught with Bilingual Aide	Physics (1 credit) *Dual certified Science teacher, or co-taught with Bilingual Aide
World Languages	MLL Foundations with Spanish Language gaps placed in Native Language Spanish 1 OR Other Native Language Spanish <i>or</i> other WL courses based on prior education, placement test, and/or Dept. Chair recommendation.			

EL4300GAG	English Foundations	Grades 9, 10, 11	2 Credits
*[Graduation Requirement: 1 credit Core English and 1 credit Pathway Related Course]			

This course provides intensive English language instruction with emphasis on school routines, oral skills, and literacy development. **Successful completion gives the student one credit in English and one Pathway Related Course credit. The one related course credit does not fulfill the graduation requirement in English. Prerequisite:** Students identified as Multilingual Learners.

EL4461GAE	English Development	Grades 9, 10, 11	1 Credit
*[Graduation Requirement: 1 credit Core English]			

The course focuses on the continued linguistic development of listening, speaking, reading, and writing skills in formal and social settings. Through a content-based approach, students will engage in tasks that will support the development of reading, writing, speaking, and listening skills. **Successful completion gives the student one credit in English. Prerequisite:** Students identified as Multilingual Learners.

EL4463GAE	English Literature	Grade 9, 10, 11	1 Credit
*[Graduation Requirement: 1 credit Core English]			

This course may be taken concurrently with English Development. Emphasis is placed on learning academic English - reading, writing, and mechanics. **Successful completion gives the student one credit in English. Prerequisite:** Students identified as Multilingual Learners.

EN0017GAE	Transition English	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement: 1 credit Core English]			

This course follows the English I curriculum standards and is designed for MLL students. The course is co-taught between an English teacher and an MLL teacher. Teachers use instructional strategies that are effective with MLLs to prepare students for the mainstream English II course that is next in the English core sequence. The curriculum is an exploration of the reading-writing connection and students will incorporate the writing process as they develop their communication skills and engagement in academic discourse. **Successful completion gives the student one credit in English. Successful completion gives the student one credit in English.**

EL4301GAG	EL Math Foundations	Grades 9, 10, 11	2 Credits
*[Graduation Requirement: 1 credit Core Math and 1 credit Math Related Course or STEM Related Course]			

This course provides intensive Basic Math instruction with emphasis on the English and Math skills needed to prepare students for Algebra, conducted in Spanish and English. **Successful completion gives the student one credit in Mathematics and one STEM Related Course credit. The one related course credit does not fulfill graduation requirements in Mathematics. Prerequisite:** Students identified as Multilingual Learners with gaps in their education. **Prerequisite:** Participation in the Bilingual (Spanish) program.

EL4471GAE	Bilingual World History	Grades 9, 10, 11	1 Credit
*[Graduation Requirement: Social Studies Related Course]			

This course is a survey of World History from its origins to the 21st century, conducted in Spanish and English. It includes historical development of economics, and political, social and religious institutions with an emphasis on geography's impact on historical and cultural development. **Prerequisite:** Participation in the Bilingual (Spanish) Program.

EL4472GAE	Bilingual US History	Grades 9, 10, 11	1 Credit
*[Graduation Requirement: US History Requirement]			

This course surveys the development of the American political, socio-cultural, and economic landscapes beginning with the exploration of the Americas until today, conducted in Spanish and English. Students concentrate on specific time periods through American history with emphasis on important events and critical ideas. **Prerequisite:** Participation in the Bilingual (Spanish) program.

EL3320GAE	Bilingual Biology	Grades 9, 10, 11	1 Credit
*[Graduation Requirement: Biology/Life Science (Lab)]			

Emphasis of study will be placed on the biochemical, physiological, morphological, ecological, bacteriological, embryonic, nutritional, pathological and biographical natures of life, conducted in Spanish and English. Upon completion of this course a student will have a knowledge of the principles on which all life depends, and an awareness of the interdependence of organisms in the biological world with reference to the balance of nature and conservation. **Prerequisite: Participation in the Bilingual (Spanish) program.**

EL0013GAC	MLL Culture and Career Seminar 1	Grade 9 (10, 11, if newly arrived)	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

This one semester interdisciplinary course is designed as an introductory course for Multilingual Learners. They will learn and apply 21st century skills, laying a foundation which will be used during their high school years and are applicable in the real world. In addition to an introduction to career exploration, the curriculum will focus on 'skills for success' including: communication skills, organizational skills, civic responsibility, problem solving, personal development (such as collaboration and self-advocacy), technology skills, and researching skills. Students will be learning how to succeed in high school and how these skills can be applied throughout life.

EL0014GAC	MLL Culture and Career Seminar 2	Grade 10, 11	0.5 Credit
*[Graduation Requirement: Pathway Related Course]			

This one semester interdisciplinary course continues to develop Multilingual Learners' skills for success with emphasis on post-secondary options. Students explore their passions and interests and how these interests might influence their career choices. They will start thinking about internship options and develop skills for resume writing and job interviews. They will also learn about the college application process and explore what different colleges have to offer. **Prerequisite: MLL Culture and Career Seminar 1**

EL5503GAC3	MLL Career Exploration Internship	Grades 11, 12	0.5 Credits
*[Graduation Requirement: Pathway Related Course]			

This one semester internship provides students with real-world career experiences and an opportunity to connect learning in the Culture and Careers Seminar 1 and 2 with the workplace. With support from the MLL Career Pathways Facilitator, students will be able to hone their work and life skills within American culture. The experience will enhance students' opportunities for post-secondary success in the job world. **Prerequisite: successful completion of Culture and Careers Seminar 1 and 2 or Teacher Recommendation.**

Specialized Education

A full continuum of Special Education supports and related services are provided to students who have been identified as eligible under the criteria of Connecticut General Statute 10-76 and IDEA. The majority of students with a disability meet the requirements for graduation through regular class placements with support from the special education instructional staff and/or student support personnel. Special education classes are available for other students with severe disabilities whose needs require intensive, explicit, direct special education instruction which may include modification of curriculum. Special education classes and programs are available to meet these needs. The appropriate classes or services provided in the Least Restrictive Environment to meet the needs of each individual student is a decision made by the Planning and Placement Team.

Co-Taught English *[Graduation Requirement per PPT]	Grades 9, 10, 11	1 Credit
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These courses provide specially designed academic instruction in the general education English class by both the special education and general education teachers. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan. Depending upon PPT recommendations, a fully inclusive Cluster co-teaching program is available for students who meet the entry criteria and are entering grade 9 during the 2024-25 school year.

Co-Taught Math *[Graduation Requirement per PPT]	Grades 9, 10, 11	1 Credit
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These courses in Intensified Algebra 1, Integrated Algebra and Intermediate Geometry provide specially designed academic instruction in the general education math class by both the special education and general education teachers. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan. Depending upon PPT recommendations, a fully inclusive Cluster co-teaching program is available for students who meet the entry criteria and are entering grade 9 during the 2024-25 school year.

Co-Taught Science *[Graduation Requirement per PPT]	Grades 9, 10, 11	1 Credit
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These courses in Biology, Earth and Integrated Physical Science and Chemistry provide specially designed academic instruction in the general education science class by both the special education and general education teachers. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan. Depending upon PPT recommendations, a fully inclusive Cluster co-teaching program is available for students who meet the entry criteria and are entering grade 9 during the 2024-25 school year.

Co-Taught Social Studies *[Graduation Requirement per PPT]	Grades 9, 10, 11	1 Credit
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These courses in World History, US History, Civics provide specially designed academic instruction in the general education social studies class by both the special education and general education teachers. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan. Depending upon PPT recommendations, a fully inclusive Cluster co-teaching program is available for students who meet the entry criteria and are entering grade 9 during the 2024-25 school year.

NK9402GRE	Reading Program	Grades 9, 10, 11, 12	1 Credit
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Research-based direct reading instruction intervention provided in a special education class, specially designed to meet students' specific skill needs in the area of reading. This course builds on the foundational skills of reading. Specialized Reading focuses on higher level reading skills. This course provides direct instruction and may be supplemented with access to remote interventions and provide continuous progress monitoring in literacy skill acquisition. Placement in this course is based on an extensive literacy assessment and the recommendation of The Planning and Placement Team as designated in the students' IEP.

NK9413-16GRC	Academic Assistance	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement per PPT]			

Students will receive small group supplementary instruction focusing on the IEP goals in the areas of executive functioning skills, academic self-management skills, self-advocacy, note taking, research and written, oral or visual presentation skills. Time management skills are addressed to support independent completion of coursework, projects and homework assignments as applied across general education curriculum areas. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan consistent with goals and objectives.

NK	Consultant Teacher Services	Grades 9, 10, 11, 12	0 Credit
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These supports and services provide direct or indirect specially designed academic intervention for students in the general education English, Math, Science, or Social Studies courses. Provided by the special education teacher in consultation with the general education teacher. Indirect services are provided to the general education teacher to assist with the development and implementation of accommodations, while direct services may be provided within the general education classroom. Consultant teacher services in specific courses are based upon the recommendations of The Planning and Placement Team as designated in the students' Individual Educational Plan. The availability of this service is based upon individual student needs. Services are provided to support success in the general education pathway or in senior courses required for graduation.

ESSENTIALS CLASSES

NK0096-99GAE	ESSENTIALS OF English I, II, III, IV	Grades 9 – 12	1 Credit
NK1192-95GAE	ESSENTIALS OF Math I, II, III, IV	Grades 9 – 12	1 Credit
NK3392-95GAE	ESSENTIALS OF Science I, II, III, IV	Grades 9 – 12	1 Credit
NK2292-95GAE	ESSENTIALS OF Social Studies I, II, III, IV	Grades 9 – 12	1 Credit

These courses provide direct special education instruction in a special education class to develop, maintain and apply skills in English (reading/ writing), math, science, and/or social studies coursework for students with moderate to severe disabilities who cannot benefit from instruction in the general education classroom even with intensive special education supports and services. Course content is consistent with state standards and ensures access to the general education curriculum. It is anticipated that with this intensive intervention, students will be prepared to return to general education classes with significant specialized supports and services. Ongoing consistent progress monitoring is utilized to guide decisions to return students to more integrated settings. Materials and instructional techniques are differentiated, individualized, and adapted to individual student needs. Instruction may be provided individually, small groups, or class wide. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan.

PRACTICAL CLASSES

These courses provide direct special education instruction in a special education class to develop functional skills, and to maintain and apply independent skills in generalized settings. Classes provide practical coursework in English (reading/ writing), Math, Science, and/or Social Studies as well as pre-vocational, vocational and life skills. Materials and instructional techniques are differentiated, individualized, and adapted to individual student needs. Instruction may be provided individually, in small groups, or class wide. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan. Students may use this coursework towards HS graduation requirements. **Students typically are recommended for Alternative Assessment based upon SDE criteria for consideration by the PPT.**

NK2256GAE	Community and Civic Engagement I, II, III, IV	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement per PPT]			

Students experience the practical application of social studies curriculum including world history related to family cultures and history.

NK9425GRE	Practical English I, II, III, IV	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement per PPT]			

Students experience the practical application of English curriculum including functional reading and writing skills related to daily living and vocational literacy requirements.

NK9426GRE	Practical Math I, II, III, IV	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement per PPT]			

Students experience the practical application of Math curriculum including time, numeracy, money, measurement skills and personal finance planning related to independent daily living skills and requirements for successful vocational experiences.

NK9404GRE	Daily Living Skills I, II, III, IV	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement per PPT]			

This course provides direct special education instruction in a special education class to develop, maintain and generalize skills leading to independence across settings including school, community and workplace. Instruction emphasizes independent living and self-help skills including; health/nutrition, hygiene, grooming, money management, self-advocacy, domestic skills (e.g. cooking, shopping, housekeeping), pragmatic communication skills, and appropriate leisure time skills. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan.

NK9405GRE	Pre-Vocational/Vocational Skills	Grades 11, 12	1 Credit
*[Graduation Requirement per PPT]			

This course provides direct special education instruction in a special education PAES Lab (Practical Assessment Exploration System), community, or workplace to provide students the pre-vocational and vocational skills necessary for entry level competitive or supported employment. The PAES program provides training on both employment skills and independent living skills using a performance-based assessment designed to guide the student in the process of transitioning from school to the real world; while developing work behavior skills. Based on individual needs and interests, this course includes an introduction to career opportunities, resume writing and applications, interviewing skills, technical skills for specific job training requirements, soft skills including workplace behavior standards, self-advocacy in the workplace, work ethics, and problem solving skills. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan.

NK9406GRA	Adaptive Physical Education	Grades 9, 10, 11, 12	0.5 Credit
*[Graduation Requirement per PPT]			

Adaptive PE will be provided in accordance with the student's Individualized Educational Plan. Physical Education is a comprehensive program that teaches students the skills and concepts necessary to lead a healthy lifestyle. Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan.

PE9009GAC	Peer Assisted Physical Education	Grades 9, 10, 11, 12	0.5 Credit
AR8814GRE	Peer Assisted Art	Grades 9, 10, 11, 12	1 Credit
*[Graduation Requirement: Fine Arts]			

Students with disabilities are integrated into Physical Education and Art, therefore providing access to adapted coursework supported by the teaching team and peer mentors in consultation with special educators. In addition, peer mentors receive valuable experience in career exploration for those students interested in pursuing a career in general or special education, physical/occupational therapy, and other health related fields. Prerequisite for peer mentors: previous art course or PE Course or previous culinary arts course. Courses will run based on enrollment and staff availability.

NORWALK NEXT STEPS (18-22 Transition Program)		Grades 12 +	0 Credit
(until the June after the student's 22nd birthday)			
*[Graduation Requirement per PPT]			

The goal of the 18-22 program is to develop soft skills to enable successful workplace experiences with increased independence via fading of school supervision supports while increasing access to natural supports in the community. The transition program will provide a variety of work-place experiences to develop entry-level job specific skill sets leading to acquisition of supported employment. Independent living skills including travel, money management and hygiene appropriate to the worksite will also be addressed. These skills across all domains will be enhanced via access to smart electronic devices to facilitate travel (GPS), communication (e-mail, text, phone) and time management (electronic calendars and schedules). Placement in this course is based on the recommendation of The Planning and Placement Team as designated in the students' Individual Educational Plan.

Future Ready Programs

Providing the portal to a Future Ready education—online and in person, anytime, for all learners

Mission and Vision

Future Ready Programs offer equitable access to high-quality, individualized education, through the integration of direct instruction, the internet, and other distance learning technologies to students. This environment provides the flexibility of time and location and promotes the development of skills, attitudes, and self-discipline necessary to achieve success and be future-ready. Norwalk Future Ready programs offer enrollment options to allow students to earn a standard high school diploma from their school of record. Our programs allow for customization and flexibility so that every student has their own personal learning path while following the same criteria as all Norwalk Public Schools students. These programs assist to re-engage students who are under-credited and overage as well as those who need a different learning environment. Norwalk Future Ready Programs include a variety of assessment techniques that address the various learning styles and intelligence types. Embedding online learning across all programs enables students to assume increasing responsibility for their own learning.

FRP and School Choice

Norwalk Future Ready Programs are choice programs that include an application process. Applications are reviewed on an individual basis, a meeting will be held with the counselor, student, and parents/guardians. Upon acceptance an orientation is held with Future Ready, the student, and parent/guardian. Families are offered a 21-day grace period for withdrawal and counseling as alternatives for those who find the program inappropriate for their children. Students are not excluded based on any disability, language, or other academic need. If there is currently an IEP or 504, a convening of the IEP/504 team and a review of a student's current IEP/504 is held to determine the appropriateness of the potential placement.

FRP Description of Programs:

Twilight Academy

Twilight Academy is a Future Ready program for over-aged, under-credited 11th and 12th-grade high school students to earn credits towards a high school diploma. Our mission is to re-engage youth through wrap-around services in a small supportive classroom environment. Twilight Academy is held during the evening, and many of our students have commitments during the day, such as childcare, and jobs, that prevented them from finishing high school through their school of origin. Courses may be conducted in person or virtual.

Virtual Academy

Virtual Academy is an opportunity for 10th - 12th-grade students to enroll in virtual classes through a lab setting for original credit or credit recovery. Students will have small group, personalized instruction through problem-based learning. Virtual Academy will mirror that of in-person instruction, such as the availability of academic and social emotional support. Students enrolled in Future Ready have the option of blending their schedule across both programs.



FUTURE
READY
PROGRAMS

VIRTUAL ACADEMY

350 Main Ave, Norwalk, CT

ABOUT OUR ACADEMY



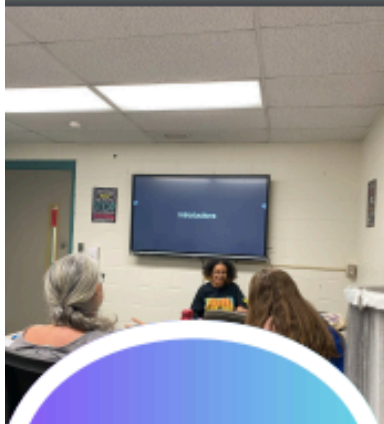
We are an online program for 10th - 12th grade students. We offer live virtual instruction Monday - Thursday with an in-person session every Friday. Our courses are semester-based. That means you can earn a full credit for a yearlong course in one semester.

HOURS

Monday - Thursday
10:00 AM - 3:00 PM
Lunch: 12:30 - 1:00
Friday - **In-person**
10 AM - 1 PM

SERVICE PROJECTS

Giving back to the community is an important part of being a Future Ready Student. Once a month we will volunteer at various local organizations. This is a wonderful Capstone opportunity!



FUTURE
READY
PROGRAMS

TWILIGHT ACADEMY

350 Main Ave, Norwalk, CT

ABOUT OUR ACADEMY



We are an after school program for 11th & 12th grade students. We offer content core classes Monday - Thursday. Fridays are asynchronous with an option for in person support 10 AM - 1 PM. Our courses are semester-based. That means you can earn a full credit for a yearlong course in one semester.

HOURS

Monday - Thursday
3:00 PM - 7:00 PM
Friday - asynchronous and
In person support from
10 AM - 1 PM

SERVICE PROJECTS

Giving back to the community is an important part of being a Future Ready Student. Once a month we will volunteer at various local organizations. This is a wonderful Capstone opportunity!



English Courses Offered in Future Ready Programs

EN0017GAE	Transition English	1 Credit
*[Graduation Requirement: English Credit]		

This course follows the English I curriculum standards and is designed for MLL students. The course is co-taught between an English teacher and an MLL teacher. Teachers use instructional strategies that are effective with MLLs to prepare students for the mainstream English II course that is next in the English core sequence. The curriculum is an exploration of the reading-writing connection and students will incorporate the writing process as they develop their communication skills and engagement in academic discourse. Successful completion gives the student one credit in English.

EN0016GAE	English 1	1 Credit
*[Graduation Requirement: English Credit]		

This course is an exploration of the reading-writing connection. Students will study a diverse collection of informational and literary texts and will use the writing process and technology to develop writing proficiency. Students will also work on speaking and listening, vocabulary development, comprehension strategies, and logical thinking and study skills. Emphasis will be placed on close reading strategies that develop critical reading and analytical skills development.

EN0026GAE	English 2	1 Credit
*[Graduation Requirement: English Credit]		

In this course, students will acquire the skills and develop the vocabulary necessary to read the major genres of literature: the novel, short story, drama, poetry, essay, and biography. A combination of nonfiction and fiction works will be used in the course of study. Students will study the various techniques of developing and researching a topic and will write papers and develop multimedia presentations using these skills. Instruction will focus on response writing, persuasive essay, and reflective personal statements. Grammar, research, vocabulary, and oral communication skills will also be emphasized.

EN0036GAE	English 3	1 Credit
*[Graduation Requirement: English Credit]		

Students in this course will read major writers of American Literature from the early colonial period to the present to become aware of their cultural traditions. Through their reading, discussions, vocabulary work, and writing, students will develop an awareness of their place in society and their value as an individual. Students will develop research skills and use the writing process to develop creative, analytical, and persuasive pieces. Informational and literary texts will be analyzed using close reading strategies as preparation for college entrance exams. Focus will also be given to the personal narrative as a way to best prepare students for college essay admission requirements.

EN0036GAE	Senior English Elective	1 Credit
*[Graduation Requirement: English Credit]		

Students will take two semester-long English electives to complete their Senior English credit. Students will choose from the courses offered through Norwalk High School and Brien McMahon.

Social Studies Courses Offered in Future Ready Programs

SS2322GAE African American/Black and Puerto Rican/Latino Studies

1 Credit

***[Graduation Requirement: Pathway Related Course]**

This course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives and collaborations of African America/Black and Puerto Rican/Latino people in the U.S. Students will examine how historical movements, legislation, and wars affected the citizenship rights of these groups and how they, both separately and together, worked to build U.S. cultural and economic wealth and create more just societies in local, nation and international contexts. Coursework will provide students with tools to identify historic and contemporary tensions around race and difference; map economic and racial disparities over time; strengthen their own identity development; and address bias in their communities.

SS2236GAC Civics

0.5 Credit

***[Graduation Requirement: Civics]**

The course surveys the origins and institutions of the US Government. Emphasis is placed on the political organization and structure of our national, state and local governments as well as their development. The Constitution and its interpretation will be studied through the use of Supreme Court decisions. Analysis and interpretation of outside readings will be required. Students are encouraged to actively participate in the democratic process and will be given an opportunity to participate in the governmental process through fieldwork projects.

SS2272GAC Psychology 1 *

0.5 Credit

[Graduation Requirement: Social Studies Related Course]

This course is a one-semester introductory survey of the field of human behavior. Topics include sensory awareness, perception, self-esteem, dreams, meditation, motivation, and the unconscious. Students use readings, experiments, roleplays, small and large group discussion, and projects to explore these areas of human behavior.

SS2308GAC Social Justice

0.5 Credit

***[Graduation Requirement: Social Studies Related Course]**

This semester course is designed to increase students' awareness, knowledge, and understanding of issues related to diversity, human rights, social and economic justice. Diversity is understood as the intersectionality of multiple factors including age, class, color, culture, disability, ethnicity, gender, gender identity and expression, immigration status, political ideology, race, religion, sex, and sexual orientation. In this course, students will explore social justice movements like Women's Rights, Civil Rights, and LGBTQ+.

SS2226GAE United States History

1 Credit

***[Graduation Requirement: US History]**

This course surveys the development of the American political, socio-cultural, and economic landscapes during the post-Civil War period and investigates the role of the United States in world affairs. Provision may be made for students to concentrate on and/or specialize in areas of interest through classroom projects and writing assignments.

SS2206GAE World History

1 Credit

***[Graduation Requirement: Social Studies Related Course]**

This course is a survey of World History from its origins to the 21st century. It will include historical development of economics, political, social and religious institutions with an emphasis on geography's impact on historical and cultural development.

Math Courses Offered in Future Ready Programs

MA1121GAE	Algebra 1	1 Credit
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***[Graduation Requirement: Math Credit; STEM Related Course]**

This course will cover many similar topics as Intensified Algebra 1, but in more depth. In addition, students will engage in an extensive study of systems of linear equations as well as an introductory study of quadratic equations and expressions.

MA1128GAE5	Integrated Algebra and Geometry	1 Credit
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***[Graduation Requirement: Math Credit; STEM Related Course]**

This course is designed to develop confident knowledge of the fundamentals of algebra and geometry, material that is at the core of the study of high level mathematics. It cultivates the essential skills and habits required to make use of mathematics, including the ability to approach challenging problems and to communicate mathematical ideas clearly. The mathematical content of the course includes more advanced applications of material from Algebra I, as well as material drawn from the traditional content of Geometry and some Algebra II. Topics are woven throughout the course to build a deeper understanding. Prerequisite: Algebra 1 or Intensified Algebra.

MA1122GAE	Algebra 2	1 Credit
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***[Graduation Requirement: Math Credit; STEM Related Course]**

The major theme of this course is functions. The concept of functionality will be developed fully, and the course includes a study of linear, quadratic, exponential, and polynomial. Also included in this course is content with probability and statistics. Prerequisite: Intensified Algebra 1 or Algebra 1. May be taken concurrently with Geometry.

World Languages Courses Offered in Future Ready Programs

WL4430GAE	Spanish 1	1 Credit
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WL4432GAE	Spanish 2
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WL4433GAE	Spanish 3
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WL4435GAE	Spanish 4
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***[Graduation Requirement: World Languages]**

Science & STEM Courses Offered in Future Ready Programs

AR5502GAC	Computer Applications	0.5 Credit
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***[Graduation Requirement: STEM Related Course; Digital Literacy]**

This course is essential to each student's development of technological understanding and skills which are needed at both the high school and college level, as well as post-secondary employment. Instruction will focus on:

- 21st Century Skills - Students will focus on developing their digital literacy skills through social media literacy, digital footprint exploration, and evaluating digital sources.
- Word Processing - students will create and edit business documents as well as review and apply MLA paper formatting rules.
- Presentations - students will research, create and deliver a presentation with illustrations and shapes on a topic of their choice
- Spreadsheets - students will create a worksheet to organize data, visually present data using embedded charts and graphs, and learn to use formulas and functions.

SC3348GAE	Chemistry (Lab Science)	1 Credit
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***[Graduation Requirement: Chemistry/Physical Science (Lab)]**

This course covers the following topics: properties of materials, the transformations which matter undergoes, the conditions affecting those transformations and the nature and amount of energy released or absorbed in these changes, the uses of materials and creation of new substances. Emphasis is placed upon mathematical application to chemistry and an extensive degree of laboratory work. Recommended C or better in the prerequisite courses. Prerequisite: Intensified Algebra 1 or Algebra 1 and Biology

SC3304GAE Earth and Integrated Physical Science (Lab Science)**1 Credit*****[Graduation Requirement: Chemistry/Physical Science; Science Related Course; STEM Related Course]**

Emphasis of study will be placed on students' understanding of the interconnections and feedbacks among the geosphere, hydrosphere, atmosphere, and anthroposphere as well as the physical aspects of motion, energy, forces, and waves and technology. Students will study climate systems and climate change, the human impacts on Earth systems and issues of human sustainability, current global and regional data sets, the systems and transfer of energy, laws of force and motion, and waves and technological applications. Students will make projections for the future, analyze space systems and research, and use engineering design concepts to evaluate future societal choices in the earth, space, and physical sciences. Upon completion of this course a student will have a knowledge of principles including but not limited to: energy futures, resource management, space exploration and structures, land use, environmental impacts, pollution regulation, and applications of motion, waves, and energy. Prerequisite: Biology

SC3338GAE Human Anatomy and Physiology (Lab Science)**1 Credit*****[Graduation Requirement: Science Related Course; STEM Related Course]**

Human Anatomy and Physiology includes the study of all structures within the major organ systems of the human body. The morphology of these systems will be directly correlated with how major structures are able to function. This course is designed to examine a healthy state of the human body in comparison with the abnormalities and their physiological effects that result from disease. A comprehensive review of biology, chemistry, and other biological sciences will be integrated throughout this full year course. Dissections will serve as a significant form of assessment allowing practical application of the knowledge attained throughout the semester. Course material will be covered in depth and at a demanding pace. Course material will be covered in a manner that is conducive to students of all backgrounds and abilities to learn. Prerequisite: Biology and Chemistry

SC3455GAC Certified Nursing Assistant (CNA) Certification with NCC**Grades 11, 12****0.5 Credit*****[Graduation Requirement: Science Related Course; STEM Related Course] Open to Scholars at BMHS, CGS, NHS, P-TECH Norwalk, Twilight Academy & Virtual Academy. Priority Scheduling for Seniors, seats are limited based on partnership agreements.**

Certified Nurse Assistants are integral members of the health profession performing services in the care of patients, residents, and clients in healthcare settings. This course prepares scholars to work in long-term care nursing facilities, hospitals, assisted living facilities, and home care. The course includes classroom instruction combined with hours of practical hands-on training in the laboratory and clinical setting at Norwalk Hospital, which enables the scholar to deliver all aspects of personal care to patients. Scholars learn about the physical and emotional changes related to aging. Scholars will be given both the State and written clinical exams. In addition to CNA Certification, scholars may receive Red Cross Adult CPR Certification. Appropriate clinical and lab attire will be required for Norwalk Hospital clinical rotations. Graduating Seniors who have completed the CNA Certification with a passing grade and have passed all required exams may work closely with Norwalk Hospital for job placement within the Nuvance Health Network. **Scholars must be 16+ years old to participate in this course at the time of semester registration. Scholars must be fully Covid-19 vaccinated and show proof, prior to beginning hospital clinical rotations.**

Career Pathways within Norwalk Public Schools

Norwalk High School Career Pathways							
Accounting & Finance	Art	Art History	Counseling and Mental Health Services	Culinary Arts	Digital Media & Communications Academy	Entrepreneurship & Marketing	General Studies
Global Engagement	Information Support & Services	Music	Performing Arts	Programming & Software Development	ROTC	Social Justice	Therapeutic Services
Wellness							

Norwalk High School Career Pathways 2024-2025

Career Pathways help to prepare students for the ever-changing workplace by developing professional skills and knowledge.

Grade levels are for suggestion only; the course catalog will determine when a scholar can take a course based on grade level

Career Cluster Career Pathway	9th Grade	10th Grade	11th Grade	12th Grade
Arts <i>Audio/Video Technology Communications</i>				
Art Pathway <i>4 courses</i>	Required: Foundations of Art or Advanced Foundations of Art	Must Select One: 3D Sculpture 1 Applied Arts 1 Digital Illustration & Design 1 Peer-Assisted Art Photography 1 Painting 1 Printmaking 1 Textile Arts 1	Must Select One: AP Studio Art Digital Illustration & Design 2 UCONN Drawing 2 Honors Portfolio Painting 2 Peer Assisted Art Photography 2 Printmaking 2 Textile Arts 2	Must Select One: AP Studio Art Digital Illustration & Design 2 UCONN Drawing 2 Honors Portfolio Painting 2 Peer Assisted Art Photography 2 Printmaking 2 Textile Arts 2
Art History Pathway <i>5 courses</i>	Must Select One of the Following, Including Art History: Foundations of Art Advanced Foundations of Art	Must Select One: Foundations of Art Advanced Foundations of Art Modern & Contemporary Arts	Must Select One: AP Art History Cultural Perspectives in Art Modern & Contemporary Arts	Must Select One: AP Art History Cultural Perspectives in Art Modern & Contemporary Arts
Digital Media Communications Academy <i>5 courses</i>	Required Phase 1: Media Consumption & Creation	Required Phase 2: Advanced Media Studies	Must Select Two Phase 3: Audio Design & Podcasting Digital Communications Film Production	Required Phase 4: Digital Portfolio/Capstone Experience

Music Pathway <i>6 courses</i>	Required 4 Years Band and/or Chorus and/or Orchestra: Band, Symphonic Band, Wind Ensemble or Honors Wind Symphony Chorus Beginning Choir Advanced Choir, Chorale, or Honors Chamber Singers Orchestra Prelude Orchestra, Philharmonic Orchestra, or Honors Principal Orchestra	Required 4 Years Band and/or Chorus and/or Orchestra: Band Symphonic Band Wind Ensemble or Honors Wind Symphony Chorus Beginning Choir Advanced Choir, Chorale, or Honors Chamber Singers Orchestra Prelude Orchestra Philharmonic Orchestra or Honors Principal Orchestra	Must Select Two: Music Theory or AP Music Theory Jazz Ensemble Winter Percussion Ensemble	Must Select Two: Music Theory or AP Music Theory Jazz Ensemble Winter Percussion Ensemble
Performing Arts Pathway <i>6 courses</i>	Required: Acting 1 Choir Theater Studies 1	Participation: Fall and/or Spring Theater Events Strongly Encouraged	Must Select Two: Any teacher recommended band or orchestra ensemble AP Music Theory Color Guard Jazz Ensemble Music Theory Winter Guard Winter Percussion Ensemble	Must Select Two: Any teacher recommended band or orchestra ensemble AP Music Theory Color Guard Jazz Ensemble Music Theory Winter Guard Winter Percussion Ensemble
<i>Business Management & Administration</i> <i>Marketing</i>				
Entrepreneurship & Marketing Pathway <i>4 courses</i>	Required: Entrepreneurship or Honors Entrepreneurship Marketing 1 Principles of Business	Must Select One: Business Law Discovering Careers Principles of Investing Sports & Entertainment Marketing	Must Select One: Business Law Discovering Careers Principles of Investing Sports & Entertainment Marketing	Must Select One: Business Law Discovering Careers Principles of Investing Sports & Entertainment Marketing

Finance				
Accounting & Finance Pathway <i>4 courses</i>	Required: Honors Accounting 1 Principles of Personal Finance	Required: Honors Accounting 1 Principles of Personal Finance	Must Select One: Computer Applications Personal Finance Principles of Business Principles of Investing	Must Select One: Computer Applications Personal Finance Principles of Business Principles of Investing
Government Public Administration				
Global Engagement Pathway <i>5 courses</i>	Required 3 Years: French Italian Native Spanish or Spanish	Must Select One: Cultural Perspectives in Art Current Issues Ecojustice: Environmental Justice Latin American Studies	Must Select One: MLL Culture & Career Internship MLL Culture & Career Seminar 1 or 2 Public Health & Epidemiology World History or Honors World History	Must be a 3-year member of one of the following NHS clubs: Build-On Earth Club French Club French Honor Society Italian Club Spanish Club Spanish National Honor Society STEM Travelers Participation: AP, Level 5 or 4 World Language Participant to sit for the Seal of Biliteracy Exam during Senior Year.
Reserves Officer Training Corps (ROTC) Pathway <i>4 courses</i>	Required: Aerospace Science & Leadership 1	Required: Aerospace Science & Leadership 2	Required: Aerospace Science & Leadership 3	Required: Aerospace Science & Leadership 4
Human Sciences				
Therapeutic Services Pathway <i>4 courses</i>	Required: Biology or Honors Biology Public Health & Epidemiology Human Anatomy & Physiology or Honors Human Anatomy & Physiology	Must Select One: AP Biology AP Statistics Chemistry or Honors Chemistry Genetics Physics or Honors Physics Sports Statistics or Statistics	Must Select One: AP Biology AP Statistics Chemistry or Honors Chemistry Genetics Physics or Honors Physics Sports Statistics or Statistics	Must Select One: AP Biology AP Statistics Chemistry or Honors Chemistry Genetics Physics or Honors Physics Sports Statistics or Statistics

<i>Hospitality Tourism</i>				
Culinary Arts Pathway <i>4 courses</i>	Required: Principles of Culinary Arts	Required: Culinary Arts 1	Required: Culinary Arts 2	Required: Culinary Arts 3
<i>Human Services</i>				
Counseling & Mental Health Services Pathway <i>4 courses</i>	Required: Psychology 1 Responding to Emergencies Sociology	Must Select One: Current Issues Genetics Human Anatomy & Physiology or Honors Human Anatomy & Physiology	Must Select One: Psychology 2 SCSU Psychology Social Justice Statistics	Must Select One: AP Statistics
Wellness Pathway <i>4 courses</i>	Required: Health 1 Aquatic Fundamentals, Functional Fitness or Physical Education Principles of Culinary Arts	Must Select One: Health 2 Lifeguarding Peer-Assisted Physical Education Public Health & Epidemiology	Must Select One: Health 2 Lifeguarding Peer-Assisted Physical Education Public Health & Epidemiology	Must Select One: Health 2 Lifeguarding Peer-Assisted Physical Education Public Health & Epidemiology
<i>Information Technology</i>				
Information Support and Services Pathway <i>4 courses</i>	Required: Computer Applications Discovering Careers Video Game Design Web Page Design	Required: Computer Applications Discovering Careers Video Game Design Web Page Design	Required: Computer Applications Discovering Careers Video Game Design Web Page Design	Required: Computer Applications Discovering Careers Video Game Design Web Page Design

Programming and Software Development Pathway 4 courses	Required: Computer Science 1 Computational Logic Computer, Construction & Repair	Must Select One: AP Computer Science Principles AP Computer Science A	Must Select One: Computer Applications Computer Science 2 Video Game Design	Must Select One: Computer Applications Computer Science 2 Video Game Design
<i>Law Public Safety Corrections Security</i>				
Social Justice Pathway 4 courses	Required: Social Justice	Must Select One: African American/Black & Puerto Rican/Latino Studies Current Issues	Must Select One: Environmental Science Public Health & Epidemiology Rethinking Gender in Literature	Must Select One: Environmental Science Public Health & Epidemiology Rethinking Gender in Literature
<i>General Studies</i>				
General Studies Pathway 4 courses	Scholars in the General Studies Pathway take a multidisciplinary approach to education. This pathway combines study of the arts, biological and, physical sciences, social sciences, and the humanities. Scholars select courses based on their proposed Capstone Experience Topic and Career Goals.			

Connecticut State Seal of Biliteracy

Students may acquire proficiency in multiple languages through various pathways. Some examples include the traditional World Languages program, the traditional MLL/MLL program, and Native World Languages program (English speakers who study their parents' native language and culture) among others.

To attain the Connecticut State Seal of Biliteracy, students' use of the language must be demonstrated, rather than their knowledge about the language. Therefore, a student must demonstrate proficiency in English and another language by meeting specific criteria.

Both native and non-native speakers of English must provide comparable evidence of English language proficiency. The language performance should be demonstrated in both social and academic use of the language, in all modes of communication.

To be eligible to receive the Connecticut State Seal of Biliteracy, the following two academic requirements must be met:

1. Students must complete all English Language Arts (ELA) requirements for graduation.
2. Students must demonstrate proficiency in a language other than English in grades 10, 11, or 12 at a level comparable to "Intermediate Mid" on the ACTFL Proficiency Guidelines as demonstrated through one of the following methods:

Assessment or Evidence	Minimum Score
ACTFL Assessment of Performance toward Proficiency in Languages (AAPPL) Measure	Intermediate level 3 in all 4 domains
International Baccalaureate (IB) World Languages Exam	Level 4
Advanced Placement (AP) World Languages Exam	Level 3
ACTFL Latin Interpretive Reading Assessment (ALIRA)	Level 3

For a student whose non-English language is low incidence and proficiency cannot be established by any of the assessments in the table above, the following steps must be taken:

- a. There will be an assessment of interpersonal face-to-face communication as well as interpretive listening, presentational speaking, and reading and writing where a written code exists.
- b. Certification by the principal, or designee, that a low-incidence language plan was completed.

Distribution of the Connecticut State Seal of Biliteracy

The Connecticut State Seal of Biliteracy will be affixed to a qualifying student's diploma and will also be noted on his/her high school transcript. Grade 12 students who achieve the Seal through an assessment whose results are released over the summer (e.g., Advanced Placement or IB exams), will be mailed the Seal so they can place it on their own diploma.



Out of District Special Programs

Parents and students are able to explore other educational opportunities that are offered in the school district and regionally. These options may include magnet, charter, and vocational-technical schools; inter-district programs; and vocational agriculture centers, Center for Global Studies, Regional Center for the Arts, J. M. Wright Technical High School, and the Academy of Information Technology and Engineering. Contact the Guidance Department for further information on these School Choice options.

Academy of Information Technology and Engineering (Stamford) <http://ait.echalk.com>

The Academy of Information Technology (AITE) is an interdistrict magnet college preparatory high school, welcoming students from within Stamford and the neighboring communities of Darien, Greenwich, New Canaan, Norwalk and Ridgefield. While the curriculum is demanding, it is designed to challenge high achievers and at the same time make high achievers of those who would have performed more disinterestedly elsewhere.

In addition to a challenging curriculum AITE offers a small school setting, a highly desirable student-teacher ratio, state-of-the-art computer laboratories, college collaborations and learning experiences that reach beyond the classroom. The Computer Technologies Concentration includes courses in networking, programming, Microsoft suite applications, CISCO and electives. The Digital Arts Concentration includes courses in Adobe suite applications, web design, CAD, 3D animation, digital music and electives. The Architecture and Engineering concentration consists of courses that include the survey of architecture and engineering, engineering design, digital electronics, principles of engineering and electives. Each of our areas of concentration affords students with the opportunity to obtain nationally recognized certifications, college credits and paid internships. **Students should meet with their counselor for an application.**

J. M. Wright Technical School (Stamford) <http://www.cttech.org/wright/> 203-324-7363

The mission of the Connecticut Technical High School System is to provide a world-class, unique and rigorous learning environment for high school students and adult learners that:

- Ensures both student academic success and career technical education mastery, as well as promotes enthusiasm for lifelong learning,
- Prepares students for post-secondary education, including apprenticeships and immediate productive employment,
- Engages regional, state, national and international employers and industries in a vibrant collaboration to respond to current, emerging and changing global workforce needs and expectations, and
- Pursues and participates in global partnerships that provide CTHSS students with international exposure and experience.

The administration, faculty and staff of J.M. Wright Technical High School believe that our students are unique and capable of achieving their highest potential. We believe in the importance of creating a safe and supportive learning environment for students. Our mission is to provide a dual comprehensive program of expert instruction in both a specific trade technology and core academic subjects. We hold our students to high standards so that they can achieve their personal best. We strive to endow our students with the skills to become critical thinkers and productive citizens. We believe the success of J.M. Wright Technical High School is strengthened and advanced through cooperative relationships with business, industry, alumni and the community.

- **Goal One – To Provide Students with a Safe and Supportive Environment:** Through the programs provided by the guidance department, special education services, support services, faculty and staff, all members of the school community meet the emotional, social, intellectual, and safety needs of students.
- **Goal Two – To Provide Opportunities for Students to Reach Their Highest Academic and Technical Aspirations:** Through the implementation of district-approved curriculum, academic and trade instructors provide students with appropriate learning opportunities to achieve the highest state and national standards of performance.
- **Goal Three – To Prepare Students for the Demands of 21st Century Technology:** Through the implementation of curriculum units requiring technological capabilities, all instructors provide opportunities for students to increase their ability to employ the most current technologies.
- **Goal Four – To Prepare Students to be Critical Thinkers and Productive Citizens:** Through the support of the Trade Technology Advisory Committee, Work Based Learning, College Careers Pathways, Skills USA, trade-related field experiences, critical thinking academic programs, programs in community service, travel abroad and other programs, we provide students with opportunities to thoughtfully and productively engage with their local communities and the larger world community.

Regional Center for the Arts (RCA) (Trumbull)

Regional Center for the Arts is a performing arts magnet high school program serving students in grades 9 – 12. RCA's student body serves students in the greater Norwalk region and reflects the racial, ethnic and socioeconomic diversity of students in that area. Students attend their local public high schools in the morning and attend RCA Monday through Thursday from 1:30 to 4:30 p.m. Elective high school credits, which may be applied toward graduation requirements at the discretion of the sending school district, are earned at the school through the study of dance, theater, musical theater, film/video production, and creative script writing. Through these departments, the courses provide a broad understanding of the history and criticism of the arts through interdisciplinary study. RCA's performing arts training program is designed to prepare students to pursue professional careers and post-secondary studies. The curriculum is professionally oriented, highly structured, and academically rigorous. Commitment to serious study is expected of all students. Course credit will be given in accordance with the policy of the local high school.

Who May Participate:

Placements for the Regional Center for the Arts are open to interested high school students from the school districts that participate. Students must possess a strong desire to learn and must demonstrate above-average skill or potential in the arts.

How to Participate in RCA:

Students interested in participating should complete an application and return it to the guidance department of their high school. Students should consult with their guidance counselor to obtain an application and inquire about the application deadline. Upon receipt of the application, each student will be assigned and notified of a specific placement meeting date and time. Students should see their counselors for placement procedures. The Regional Center for the Arts courses do NOT fulfill the State's requirements for physical education. Norwalk Public Schools does not provide transportation.

Stamford Regional Agriscience and Technology Center at Westhill High School (Stamford)

203-977-4974 <http://www.westhillweb.com/agriscience-program.aspx>

The Agriscience and Technology Program offers an opportunity for all in the lower Fairfield County region to explore the nation's largest commercial business – AGRICULTURE! Over 2,000 career areas in the growing agricultural industry from agrimarketing to zoology become available to the students enrolled in the program. Instruction in introductory level information, as well as more advanced technological skills, is provided. Classroom instruction, laboratory/field experience, guest speakers, leadership development through FFA, and career exploration are all areas offered through this broad program. After getting an overview of agriculture, students choose an area (or areas) of specialty during their last two years. This program follows the three-circle model of agricultural education, which includes classroom instruction, FFA, and SAE (Supervised Agricultural Experience). Students are required to participate in all three components of the program.

FFA, the nation's largest youth leadership organization, allows students to participate in local, district, state, and national career development events and leadership activities. SAEs provide students with agricultural experience outside of class time. Freshmen are required to complete 50 hours a year, while sophomores, juniors, and seniors are required to complete 200 hours. Students may choose the type or topic of SAEs based on their interests.

In summary, we are a college preparatory program that focuses on animal and plant related sciences (referred to as agriscience). Students graduate our program very well prepared for college and many times already have obtained credit for introductory college classes through our involvement in the UConn ECE program. In addition, students learn skills they can use in their post-college career pathway. Interest of our graduates includes horticulture, vet science, aquaculture, traditional farming, and floral design (to name a few). The competitive and intellectual advantage the students gain makes the agriscience program a good choice for any student wanting to study animal or plant related sciences. With limited space available, all students interested in the Agriscience and Technology Program must fill out an application and may be interviewed. They will receive a letter in the mail informing them of the status of their application.

Online Learning

Norwalk offers online courses credit recovery through the online learning platform *Edgenuity*. Students' complete tasks, watch videos and lessons, take notes, practice independently...etc. both in and outside of the classroom. They have a certified teacher to assist with questions during the *Online Learning Tutorial* period within their daily schedule. There are also after school support sessions multiple times per week during the fall and spring semesters. This enables each student to meet with a certified teacher to receive support, remediation. **Administrators assign courses for credit recovery based on individual student needs and require a signed contract.**

Credit Recovery Course List

<u>NPS Course</u>	<u>Edgenuity Equivalent Course</u>	<u>Credit</u>
<u>English</u>		
English 1	ELA 9	1
English 2	ELA 10	1
English 3	ELA 11	1
English 4	ELA 12	1
<u>Math</u>		
Algebra 1	Algebra 1	1
Algebra 2	Algebra 2	1
Geometry	Geometry	1
Intermediate Algebra	TBD	1
Math for College Success	Math for College Success	0.5
<u>Science</u>		
Biology	Biology	1
Chemistry	Chemistry	1
Physics	Physics	1
Astronomy	Astronomy: Exploring the Universe	0.5
Forensics	Forensic Science: Secrets of the Dead	0.5
Marine Biology	Marine Science: Secrets of the Deep Blue	0.5
Environmental Science	Environmental Science	0.5
Earth History	Earth Science	0.5
<u>Social Studies</u>		
World History	Survey of World History	1
US History	US History 2	1
Civics	US Government	0.5
Psychology	Psychology	0.5
Sociology	Sociology	0.5
<u>PE/Health</u>		
PE	Lifetime Fitness	0.5
Health 1	TBD	0.5
Health 2	TBD	0.5
<u>Computers</u>		
Computer Applications	Computer Applications: Office 2016	0.5
<u>World Languages</u>		
Spanish 1	Spanish 1	1
Spanish 2	Spanish 2	1
Spanish 3	Spanish 3	1
French 1	French 1	1
French 2	French 2	1
French 3	French 3	1
Italian 1	Italian 1	1
Italian 2	Italian 2	1
Italian 3	Italian 3	1