Stamford Public Schools

Stamford High

Westhill High

2025 - 2026

PROGRAM OF STUDIES

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NOTE FROM THE SUPERINTENDENT

January 2025

Dear Students and Families,

Stamford Public Schools is excited to share the 2025-26 Program of Studies, which details the nearly 300 unique courses available to students attending Stamford High School and Westhill High School. The Program of Studies is a comprehensive planning guide where you can learn about graduation requirements, read course descriptions, and think about what courses and career paths pique your interest.

As a large and diverse learning community, Stamford Public Schools strives to offer programs that will prepare every student for postsecondary success, whether they plan to attend a 4-year college or university, enter the armed forces, seek training in a skilled trade, or enter the workforce immediately after high school. We are proud to be a state leader in the number of Advanced Placement (AP) and UCONN Early College Experience (ECE) courses offered in our high schools, and our rapidly-expanding career pathways program provides an early introduction to more than a dozen in-demand professions including public safety, construction management, information technology, and education.

Beginning in 2025-26, Stamford High and Westhill will move to a flexible high school schedule. Flexible scheduling will enable students—in collaboration with their families and school counselors—to customize a school schedule that best meets their unique academic needs and goals. For instance, schedules can be created to accelerate learning for high achievers and to provide additional academic support for struggling students. Flexible scheduling will reduce student and teacher workloads, increase the time teachers spend on classroom instruction, and increase opportunities for all students to graduate prepared for postsecondary success.

Creating a comprehensive Program of Studies takes many months, and I'd like to thank the teachers, content area specialists, and Teaching & Learning Department staff who contributed their time, talent, and ideas to the 2025-26 Program of Studies. I'd also like to acknowledge our AP, UCONN ECE, and International Baccalaureate Diploma Programme teachers, who, in many cases, must acquire additional training or credentials to teach these courses in our high schools.

I hope you enjoy selecting your courses for next year and thinking about the exciting opportunities ahead.

Sincerely,

Dr. Tamu Lucero, Superintendent of Schools

Stamford Public Schools Mission Statement:

The mission of the Stamford Public Schools is to provide an education that cultivates productive habits of mind, body, and heart in every student.

Stamford Public Schools
EXCELLENCE IS THE POINT.

Stamford Public Schools Vision Statement:

The Stamford Public Schools will be a learning organization that continuously improves its effective, innovative, and transformational teaching and learning. We will challenge, inspire and prepare all students to be productive contributing members of society.

This Program of Studies contains important information about educational opportunities available in our high schools. As you and your parent(s) review the information and course listings that appear in this guide, you should think about your strengths and interests as well as your short-term and long-term goals.

CREDIT REQUIREMENTS FOR GRADUATION

To obtain a high school diploma from the Stamford Public Schools, students are expected to demonstrate proficiency in Reading, Writing, Mathematics, and Science. School counselors in partnership with students and families monitor student progress in reaching graduation requirements.

District Required Courses and Credits for Graduation:
Students are required to accumulate 25 or more course credits, distributed as follows:

HUMANITIES	**9 TOTAL CREDITS**
☐ English	4 credits
☐ Social Studies	3 credits (0.5 in Civics)
☐ Arts	1 credit
☐ Subject Area Elective	1 credit (0.5 in Financial Literacy)
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS	**9 TOTAL CREDITS**
☐ Mathematics (must earn credit in Algebra/Integrated Math 1 & Geometry/Integrated Math II)	3 credits
☐ Science	3 credits
☐ Subject Area Elective	3 credits
WELLNESS	**2 TOTAL CREDITS**
☐ Physical Education	1 credit
☐ Health and Safety Ed	1 credit
WORLD LANGUAGE	**1 TOTAL CREDIT**
GENERAL ELECTIVES	**4 TOTAL CREDITS**

CREDIT REQUIREMENTS FOR GRADE PROMOTION

For students to be promoted to:

Grade 10 a minimum of 5.5 credits must be earned
Grade 11 a minimum of 11.5 credits must be earned
Grade 12 a minimum of 17 credits must be earned

FOUR-YEAR COURSE PLANNING CHART

		9th Grade	*10th Grade*	*11th Grade*	*12th Grade*
HUMANITIES 9 Total	***English*** *4 credits required*				
	Social Studies *3 credits required*		*.5 Civics*		
	Visual & Performing Arts *1 credit required*				
	Elective *1 credit required*			*.5 Financial Literacy **	
STEM 9 Total	***Math*** *3 credits required (must earn credit for Algebra 1/Integrated Math 1 & Geometry/ Integrated Math II)*				
	Science *3 credits required*				
	STEM Elective *3 credits required*				
WORLD LANGUAGE 1 Total	***World Language*** *1 credit required*				
WELLNESS 2 Total	***Physical Education*** *1 credit required (automatically scheduled)*	*.5 PE*	*.5 PE*		
	Health & Safety *1 credit required (automatically scheduled)*	*.5 Health*	*.5 Health*		
ANY ELECTIVE 4 Total	*4 credits*	*First-Year Seminar*			

*Beginning with the class of 2027 all students need to meet a .5 credit Financial Literacy requirement. This can be met by taking Personal Finance.

25-Credits Total Required for Graduation

David Melendez Flores - Westhill High School

MASTERY-BASED LEARNING CREDIT (Optional - Course Code #3421)
Mastery-based learning is to ensure that a student has acquired the knowledge and skills that are deemed to be essential to success in every postsecondary - college and career environment and in adult life. Students will receive one credit upon successful demonstration of subject matter content mastery achieved through educational experiences and opportunities that provide flexible and multiple pathways to learning. These options include:

- ACT Score of English 18, Math 22, Reading 22, Science 23, ELA 20
- Capstone Project (prior approval required)
- FCIAC Recognition
- For EL students who have lived in Connecticut for fewer than five years, a score of proficiency or above on the LAS Links assessment
- Independent Study
- Recognition as an AP Scholar (receives a score of 3 or more on 3 AP exams)
- Recognition of achievement in a state or national competition in the areas of debate, literary, STEM, visual, or performing arts
- SAT Score College and Career Readiness Benchmark for Evidence-Based Reading and Writing: 480
- SAT Score College and Career Readiness Benchmark for Math: 530
- Seal of Biliteracy
- Student Self-Designed Project (prior approval required)
- Internship*
- Volunteer/Service Experience*
- Work-study Experience*

*Students can complete any combination of these Pathways to meet the requirement of 120 hours

Seal of Biliteracy recognizes students who have studied and attained proficiency in English and another language and have met specific requirements at the time of graduation. The seal recognizes the value of the tangible benefits of being bilingual and bi-literate and prepares students to be productive contributing members of our global society.

COURSE-LEVEL CURRICULA AND COLLEGE PARTNERSHIP PROGRAMS

College Prep (CP) courses meet stringent scholastic requirements and prepare students to meet the academic demands necessary for two and four-year colleges and universities, technical schools, the military, and work-readiness for employment.

Honors (H) courses explore the subject matter in-depth and in a comprehensive and accelerated approach. The courses are intended for students who have demonstrated motivation, interests, and achievement in previous courses taken in that content area. Successful completion of Honors courses adds 0.5 weighted credit to a student's rank and GPA.

Advanced Placement (AP) offers students the opportunity to take college-level courses while in high school to earn college credit, advanced placement, or both. Each AP course concludes with a college-level assessment which is an essential part of the AP experience enabling students to demonstrate mastery of their college-level course work.

Early College Studies (ECS) program is offered to all Stamford's high school students allowing them to concurrently earn a high school diploma as well as an Associate's Degree in Software Engineering, Mobile Programming, or Web Development and Design from CT State Community College Norwalk. ECS is modeled after a national program with a proven track record for increasing graduates' immediate enrollment into college while preparing them for immediate employment in the technology industry. Students benefit from rigorous coursework, mentoring, tutoring, and potential internships for qualified students. For additional program information visit: College Programming for SHS Students.

International Baccalaureate Middle Years Programme (MYP) and Diploma Programme (IBDP) are offered to all Stamford's high school students to prepare them to think critically about the world around them and equip them with the knowledge and skills to increase their intercultural understanding and respect for others. The IB Middle Years Program (IBMYP) is for 9th and 10th grade students, while the IB Diploma Programme (IBDP) is for 11th and 12th grade students. The goal is for IB students to keenly develop strong attributes throughout their IB education and maturation: inquiry, knowledge, thinking, communicating, caring, open-mindedness, principle, risk-taking, balance, and self-reflection. For additional program information visit: College Programming for SHS Students.

CT State Community College Norwalk, High School Partnership Program offers highly motivated and academically qualified students to take credit-bearing CT State Norwalk courses while a high school student at no cost. The courses the student is eligible to take are determined by Norwalk's placement and course prerequisite criteria. The student may take one or two courses per semester in the fall and/or spring semesters. The CT State Norwalk courses must meet outside of regularly scheduled high school hours. For additional program information visit: CT State Norwalk High School Partnership Program.

University of Connecticut - Early College Experience (ECE) provides academically motivated students the opportunity to take challenging courses that allow students to preview college work, build confidence in their readiness for college, and earn college credits that provide both an academic and financial head start toward a college degree. UConn ECE instructors are high school teachers, certified as adjunct professors by the University. UConn ECE faculty fosters independent learning, creativity, and critical thinking – all-important for success in college. Students must complete the course with a grade of C or better to receive university credit on a UConn transcript. University credits are transferable to many colleges and universities. Courses are offered in a variety of content areas at each of Stamford's high schools. Students are charged registered course credit plus a resource fee. Fee waivers are available. For additional program information visit: UConn Early College Experience.

GRADING SYSTEM

All Stamford Public Schools course grades will be included in the calculation to qualify for Honor Roll. Grades not awarded by Stamford Public Schools will not be included in the Honor Roll determination.

GRADING SYSTEM					
High Honor Roll = 4.0			Honor Roll = 3.0		
Letter Grade	**Number Value**	**Grade Point**	**Letter Grade**	**Number Value**	**Grade Point**
A	93-100	4.00	D	63-66	1.00
A-	90-92	3.75	D-	60-62	0.75
B+	87-89	3.50	F	0-59	0.00
B	83-86	3.00	M	Medical	0.00
B-	80-82	2.75	P	Passing	0.00
C+	77-79	2.50	I	Incomplete	0.00
C	73-76	2.00	LC	Loss of Credit	0.00
C-	70-72	1.75	W	Withdrawn	0.00
D+	67-69	1.50	NG	No Grade	0.00

GRADE POINT AVERAGE AND CLASS RANK

Both an unweighted and weighted rank is calculated for each student (who has attended Stamford Public Schools for at least four semesters), using the grade point average of the final marks earned in each course, except pass/fail courses and independent study. The unweighted, cumulative GPA is a simple average of all courses in grades 9-12 on a 4.0 scale. The weighted GPA is calculated by adding the following values to the unweighted GPA:

.05 for each Honors course
.07 for each (AP, ECE, NCC, and IBDP course)

HONOR ROLL

The Stamford Public Schools believes in recognizing students who demonstrate significant academic achievement through hard work and commitment. To earn honors in a marking period a student must be enrolled in a minimum of 3 credits that marking period. There are three levels of Honors:

- Honors with Distinction: Straight A's (includes A and A-)
- High Honors: All A's, except for one B (includes B+, B, B-)
- Honors: All A's and/or B's except for one C (includes C+, C, C-)

POST-SECONDARY PLANNING

School Counseling: Upon entering high school, you should develop a four-year plan of academic study that is challenging and fulfilling. Your plan will be shaped as you learn new information about yourself and the world of work. One of the services provided to help you with academic planning is Individual Planning Meetings between you and your school counselor. This meeting results in the development of your Student Success Plan with career, education, social-emotional, and post-secondary goals. You and your counselor will update the plan annually. Your plan is stored in ***Naviance***, a web-based tool that also allows you to explore career options, research colleges and technical schools, complete interest inventories, and manage the college application process.

You will also participate in classroom or group school counseling lessons two-three times a year. Additionally, students will have the opportunity to participate in college and career events.

Career Counseling: Career development and awareness are integrated throughout the curriculum in all academic subject areas and across all grade levels. Your school counselor can assist you with all aspects of career development. Additionally, each high school is fully equipped with a career center as a resource for students and families to assist with post-high school planning. Some services include information about employment and volunteer opportunities, visits from college admissions representatives, financial aid/FAFSA assistance, scholarship application help, and military information sessions. The Career Center is supervised by a school counselor/career counselor.

Standardized Testing: Students should explore the various admission tests for post-secondary opportunities. The ACT (American College Test) is designed to measure high school students' college readiness in English, math, reading, science, and writing (optional). Students in their junior year and senior year in high school are encouraged to sit for the ACT. Students can qualify for fee waivers on test administration days throughout the year. For additional ACT information and test dates, visit ACT resources.

The ASVAB is a multi-aptitude test, administered by the Department of Defense to students interested in joining the military. This test helps to establish if you are a good fit for the military and which branch of service. The better your ASVAB score, the broader your options.

The PSAT/NMSQT (Preliminary Scholastic Aptitude Test) is a diagnostic tool, provides real-time/real-place experience of a standardized assessment similar to the SAT, and is the qualifying test for National Merit Corporation scholarship opportunities for Juniors. The exam is offered to all sophomore and junior students during the school day in October, free of cost. We encourage all sophomores and juniors to take the PSAT and explore the PSAT resources that are available.

The TOEFL (Test of English as a Foreign Language) measures the English language ability of non-native speakers wishing to enroll in an English-speaking university or college. The TOEFL is accepted by more than 11,000 universities and other institutions in over 190 countries. The TOEFL focuses on English used in an academic setting, which is why schools and universities use TOEFL scores for admissions purposes.

The SAT (Scholastic Aptitude Test) measures a high school student's readiness for college and provides colleges. The SAT is offered to all juniors in the spring, during the school day at their high school, free of cost. Students can qualify for fee waivers on test administration days throughout the year. Students should check the specific college requirements to determine if the institution is test-optional and if SAT Subject tests are required. For additional SAT information and test dates, visit SAT resources.

ONLINE COURSES AND INDEPENDENT STUDY

Online courses may be an option for a student to participate in online discussions and group projects while learning rigorous course content. Credit will only be given for courses taken with an accredited educational institution and pre-approved by the Stamford Public Schools. Credit for these courses will be counted in a student's GPA and class rank. For more information, contact your school counselor.

Independent Study enables a student to conduct an in-depth study of a specific topic in consultation with an advisory teacher. This course of study requires approval from the department head and is not counted in the grade point average.

Grace Twum - Westhill High School

The following pages contain all the 2025-2026 school year course offerings.

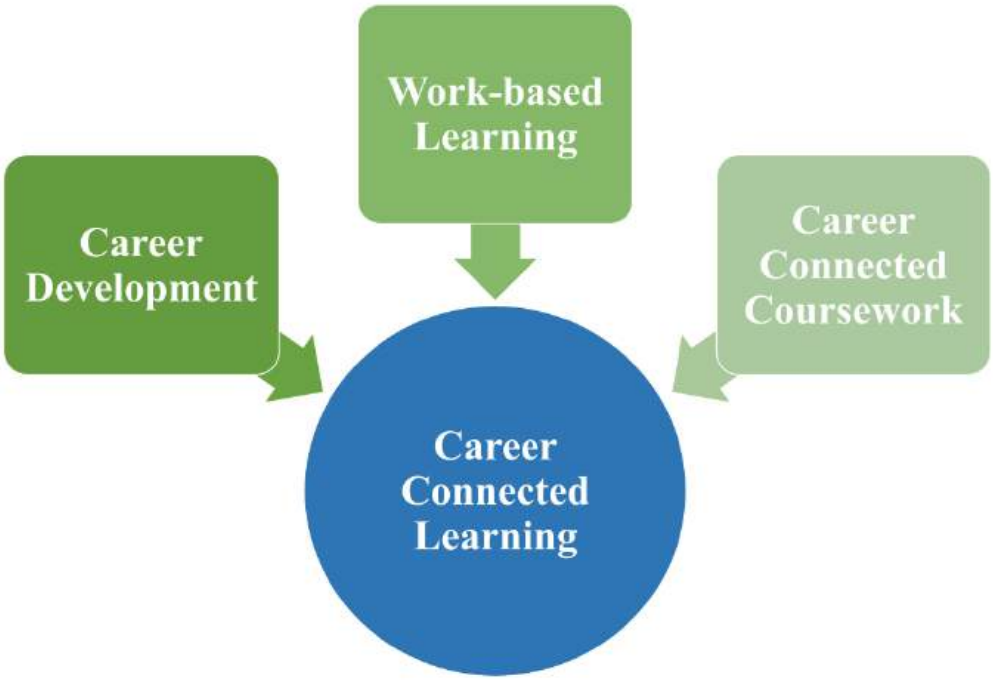
All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.

PATHWAYS SYSTEM AND CAREER CONNECTED LEARNING FOR ALL

Stamford Public Schools has been engaged with the State of Connecticut in developing a Pathway System over the course of several years. A Pathway System is the coordinated interaction of key components – career development, pathway programs, dynamic teaching and learning, employer and community engagement, and cross-sector partnerships- designed to develop a high level of career and life readiness among youths and in schools, colleges, workforce programs and across the broader community, resulting in enhanced workforce competitiveness and community prosperity.

An integral part of the Pathway System is to engage all students in Career Connected Learning. Career Connected Learning helps students connect learning to the real world and develop the knowledge, skills, and mindset to successfully enter the adult world of work, careers, and community life.

The three components of Career Connected Learning:



Career exploration and career-relevant learning benefits all students to make better-informed choices after high school. A Pathways System approach helps embed career-connected learning across the education system.

Career Development - College & Career Readiness

We are committed to all students being prepared to enter a career through either a 2-year or 4-year college, the military, technical school, or an industry certification or pre-apprenticeship program. We want to ensure every student has opportunities throughout the high school years to acquire knowledge, assess interests, build skills, and design a personalized pathway to postsecondary goals.

Career Connected Coursework - Career Clusters and Pathways Explained

The National Career Clusters ™ Framework is comprised of 16 Career Clusters ™ and related Career Pathways to help students explore different career options and better prepare for college and career. The Career Clusters ™ and related Career Pathways serve as an organizing tool for schools to develop career-oriented programming. Students are encouraged to identify pathways of interest that align with their future personal and professional goals and plans.

A Pathway is a program of interconnected academic and elective courses revolving around a career theme. The program is integrated with experiential learning, training, and possibly apprenticeship. It is designed to support the development of career and life readiness for the learner so that the individual can successfully enter and advance in a career path.

Stamford High School and Westhill High School are currently offering several pathways. Some are simply a sequence of different courses tied to a career field, others are academies or programs that require an application (JROTC-WHS, Agriscience-WHS, Academy of Finance-WHS, High School of Business-SHS, and Early College Studies-SHS) or meet industry standards (Pre-Apprenticeships).

Work-based Learning

Work-based Learning is an umbrella term used to describe activities in which schools and employers work collaboratively to provide students with structured learning experiences. Some activities included in these experiences are: apprenticeships, job shadowing, internships, externships, mentorships, clinical experiences, worksite tours, and in-school company-based projects as well as cooperative work education. These experiences provide students with the opportunity to develop a strong connection to the world of work and provide them with a sense of purpose to their daily academics.

Business Management and Administration

WHS | SHS

Pathway Summary:

Business Management and Administration focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Students interested in the Business Management and Administration Pathway might also be interested in the intradistrict *High School of Business* located at Stamford High School. **See page 53 for more information.**

Pathway Courses:

- Business Concepts
- Career Pathways & Success Skills
- Personal Finance
- Business Law
- Accounting 1
- IB Business Management HL 1 **(SHS)**
- IB Business Management **(SHS)**

Other Recommended Courses:

- Entrepreneurship
- Business Exploration **(SHS)**
- Information Technology
- Information Technology & Design

Recommended Clubs & Organizations:

- Future Business Leaders of America (FBLA)
- Distributive Education Clubs of America (DECA) **(SHS)**
- Westhill Entrepreneurs **(WHS)**

Business and Industry Partners:

- Network for Teaching Entrepreneurship (NFTE)

Future Careers:

(4yrs of college): Compensation and benefits specialist/manager, Human resources specialist/manager, Training and development specialist/manager, Buying and purchasing agent, Compliance officer, Management analyst

(2yrs of college): First-line supervisor of office & administrative support workers, First-line supervisor of non-retail sales workers, Human resource assistant, Payroll & timekeeping clerk, bookkeeping, accounting, & auditing clerk

(Certification): Bookkeeping, Real Estate Agent, Travel Associate

RECOMMENDED PROGRAM OF STUDY – BUSINESS MANAGEMENT AND ADMINISTRATION

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses	First-Year Seminar		Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives	Information Technology	Information Technology and Design	Entrepreneurship	Entrepreneurship Business Exploration

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
Business Concepts Career Pathways & Success Skills	Personal Finance	IB Business Management 1 **(SHS)** Business Law	IB Business Management 2 **(SHS)** Accounting 1

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
Accounting Assistant Accounting Technician Business Skills Business Administration Human Resources Management Non-Profit Management	Business	Business Administration Business Data Analytics Management Supply Chain Management Human Resources Management

Computer Science & Technology

WHS | **SHS**

Pathway Summary:

Information Technology focuses on building linkages in information technology occupations for entry-level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Students interested in the Information Technology pathway may be interested in the *Early College Studies Program* at SHS **(see page 81)**. Students can also be part of the Computer Science Pathway at WHS that provides a special recognition on a student's transcript based on achievement in computer science-based coursework. (see courses marked with a *).

Pathway Courses:

- Introduction to Computer Science
- Introduction to Game Design
- Introduction to Web Development and Design
- AP Computer Science Principles*
- AP Computer Science A **(WHS)***
- AP Cyber Security 1
- Data Structures & Algorithms *
- CT State Web Development and Design 1 **(SHS)**
- CT State Database Development 1 **(SHS)**
- CT State Introduction to Programming **(SHS)**
- CP/Honors Cybersecurity **(WHS)***
- CP/Honors Data Science **(WHS)**
- Python **(WHS)**
- Introduction to AI **(WHS)**
- Mobile Apps and AI **(SHS)**

For WHS Computer Science Pathway:

Concentration in Computer Science with Honors

- Complete a minimum of 3 ½ credits from the course list
- At least three of the courses are starred courses.
- Complete a minimum of 3 ½ credits from the course list.

Concentration in Computer Science

- Complete a minimum of 3 ½ credits from the course list

Recommended Clubs & Organizations:

- Girls Who Code **(WHS)**

Business and Industry Partners:

- National Center For Computer Science Education

Future Careers:

(4yrs of college): Computer systems analyst, Information security analyst, Computer network architect, Network and computer systems administrator, Database administrator and architect, Computer programmer, Software developer, Web Developer

(2yrs of college): Computer network support specialists, Field Service Technicians, Technical Support Specialists

(Certification): Database administrator, IT specialist, Tech support specialist, Help desk technician, IT assistant, Data technician,

RECOMMENDED PROGRAM OF STUDY – COMPUTER AND INFORMATION TECHNOLOGY

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H or CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses	First-Year Seminar		Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives	Python **(WHS)**	Introduction to Robotics CP/Honors Cybersecurity **(WHS)** Honors Data Science **(WHS)**	Introduction to Robotics CP/Honors Cybersecurity **(WHS)** Honors Data Science **(WHS)**	Introduction to Robotics CP/Honors Cybersecurity **(WHS)** Honors Data Science **(WHS)**

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
Introduction to Computer Science Introduction to Game Design	Introduction to Web Development and Design CT State Web Development and Design **(SHS)**	AP Computer Science Principles CT State Database Development 1 **(SHS)**	AP Computer Science A **(WHS)** CT State Introduction to Programming **(SHS)**

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
IT Support Data Analytics UX Design	Computer Information Technology Computer Networking	Computer Engineering Computer Science Computer Information Systems

Construction Management

WHS

Pathway Summary:

Construction Management focuses on careers in designing, planning, managing, building, and maintaining the built environment. The offered courses center around the most widely used construction and manufacturing materials. Through a series of projects and problem-solving activities, students are exposed to the techniques and processes common to designing and finishing construction products. Students will design, plan, identify, and solve problems, and build prototypes. Students use electrical and mechanical equipment to build solutions to technical problems. Upon completion of the courses, students earn the equivalent credit of a first-year carpenter apprenticeship as well as high school credit and have the opportunity to continue in their apprenticeship or pursue any related 2-year or 4-year degree. **For more information about the Pre-Apprenticeship see page 39.**

Pathway Courses:

- Woodworking (including Woodshop Fridays)
- General Construction - Emerging Technologies - Carpenter Pre-Apprenticeship

Business and Industry Partners:

- New England Carpenters Training Fund (NECTF)
- United Brotherhood of Carpenters and Joiners of America

Future Careers:

(4yrs of college): Architect, Civil Engineer, Mechanical Engineer, Construction Management, Landscape Architect

(2yrs of college): Architectural & Civil Drafter, Surveyor, Cost Estimator, Energy Auditor, First-Line Supervisor of Mechanics & Installers, Electrical Power-Line Installer & Repairer, Construction Management

(Certification): Journeyman Carpenter, Carpenter Foreman, Field Super Manager, Project Superintendent, Estimator, Project Manager

RECOMMENDED PROGRAM OF STUDY – CONSTRUCTION MANAGEMENT

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, or CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses	First-Year Seminar		Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives				

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
		Woodworking	General Construction - Emerging Technologies - carpenter pre-apprenticeship

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
Construction Carpentry Electrician Pipefitter & Steamfitter	Energy Technician HVACR / Maintenance Architectural Technology Geographic Information Systems	Construction Management Civil Engineering Architecture

Culinary

SHS

Pathway Summary:

The pathway gives the students an opportunity to learn the basics of professional restaurant food production and hospitality through project-based food practicums. The daily living and career benefits of developing culinary skills are emphasized. Students are exposed to advanced culinary techniques, restaurant equipment, and operating procedures of restaurants and Institutions. Students are offered the opportunity to compete regionally and nationally.

Pathway Courses:

- Introduction to Culinary Arts
- Baking and Pastry
- Global Foods

Additional Recommended Courses:

- Business Concepts
- Photography 1 & 2

Recommended Clubs & Organizations:

- Family, Career, and Community Leaders of America (FCCLA)

Business and Industry Partners:

- National Restaurant Association

Future Careers:

(4yrs of college): Agricultural Engineer, Baking & Pastry Chef, Dietitian & Nutritionist, Executive Chef, Culinary Teacher, Food scientist, Kitchen Designer, Restaurant Manager, Sous Chef, Hotel General Manager

(2yrs of college): Caterer, Cook, Fitness trainer, Food photographer, Food taster, Food writer, Hospitality Management, Tourism, Event planner, Mixologist, server, Quality Assurance Specialist, Personal chef, Cake designer/decorator, Food Safety Certification

(Certification): Culinary Arts and Food Services, Professional Baker, Cottage Food Operator (CFO)

RECOMMENDED PROGRAM OF STUDY – CULINARY

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, or CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses	First-Year Seminar		Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives	Business Concepts		Photography 1	Photography 2

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
Introduction to Culinary Arts	Baking and Pastry	Global Foods	

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
Culinary Arts and Food Services Professional Baker Cottage Food Operator (CFO)	Baking and Pastry Arts Culinary Arts Nutrition and Dietetics	Hospitality and Tourism Nutritional Sciences Dietetics Culinary Arts & Food Service Management Baking and Pastry Arts

Education

SHS

Pathway Summary:

The education pathway is intended for those who wish to serve as mentors and educators to students of all ages. In this pathway, students will learn how to provide education and training related to learning and provide support services to a variety of learners. Students will learn how to use subject matter knowledge to plan and prepare effective instruction.

Students interested in the Education Pathway might also be interested in the intradistrict *Educators Rising* program located at Stamford High School. **See page 85 for more information.**

Pathway Courses:

- Honors Rising Educators 1
- Honors Rising Educators 2
- UConn ECE If You Love It, Teach It

Additional Recommended Courses:

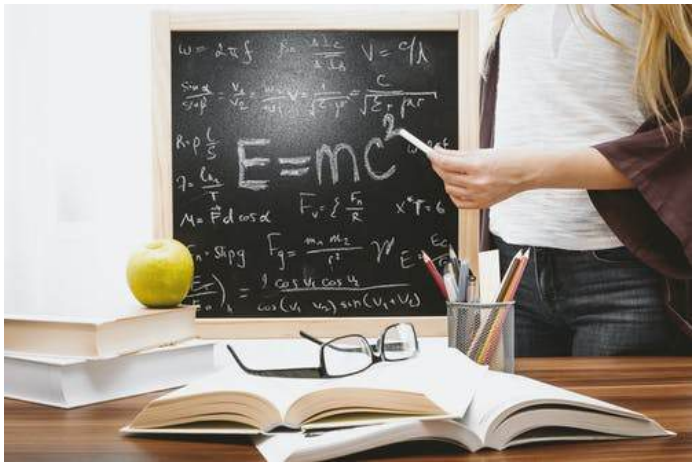
- Child Development
- UConn ECE Human Development & Family Science

Recommended Clubs & Organizations:

- Family, Career, and Community Leaders of America (FCCLA)

Business and Industry Partners:

- Rogers School Community Center Organization (ROSCCO)



Future Careers:

(4yrs of college): Early Childhood Education, Elementary School Teacher, Secondary School Teacher (biology, chemistry, physics, general science, world language, English, mathematics, history/social studies, career/technical, Medical Field), Special Education Teacher, Art Education Teacher, Physical Education Teacher

(Certification): Early Childhood Education, Paraeducator, Teacher Assistant, Home Child Care, Library Technical Assistant

Note: The Connecticut State Department of Education requires those pursuing certification in secondary education to complete a postsecondary program which includes professional education courses as well as courses in a subject area major. Students interested in becoming a teacher should enroll in as many advanced courses in their desired teaching area while in high school in order to better prepare for post-secondary studies. Students who wish to become elementary school teachers should also enroll in advanced core courses in science, language arts, mathematics, and social studies.

RECOMMENDED PROGRAM OF STUDY – EDUCATION

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, or CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses	First-Year Seminar		Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives	Child Development		UConn ECE Human Development & Family Science	

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
		Honors Rising Educators 1	Honors Rising Educators 2 UConn ECE If You Love It, Teach It

COLLEGE AND CAREER PATHS			
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**	**Master's Degrees**
Early Childhood Education Paraeducator Teacher Assistant Home Child Care Library Technical Assistant		Early Childhood Education Elementary Education Secondary Education (biology, chemistry, physics, general science, world language, English, mathematics, history/social studies, career/technical) Special Education Art Education Physical Education	Education administrator

Finance

WHS **SHS**

Pathway Summary:

Finance focuses on services for financial and investment planning, banking, insurance, and business financial management.

Students interested in the Finance Pathway might also be interested in the intradistrict *Academy of Finance* located at Westhill High School. **See page 42 for more information.**

Pathway Courses:

- Business Concepts
- Career Pathways & Success Skills
- Personal Finance
- Introduction to Investments and the Stock Market
- Accounting 1
- Advanced Principles of Accounting **(WHS)**
- Accounting 2 **(SHS)**

Additional Recommended Courses:

- Business Law
- Entrepreneurship
- Information Technology
- Information Technology and Design

Recommended Clubs & Organizations:

- Future Business Leaders of America (FBLA)
- Distributive Education Clubs of America (DECA) **(SHS)**
- Westhill Entrepreneurs **(WHS)**

Future Careers:

(4yrs of college): Financial Manager, Accountants and auditors, Budget Analyst, Credit Analyst, Personal financial advisor, Insurance underwriter, Financial examiner, Credit counselor, Loan Officer, Financial and investment analyst, Securities, commodities, and financial services sales agent

(Certification): Accounting Assistant, Accounting Technician, Bookkeeper

Business and Industry Partners:
Fintron

RECOMMENDED PROGRAM OF STUDY – FINANCE

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, or CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses	First-Year Seminar		Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives	Information Technology Business Explorations	Information Technology and Design	Business Law Entrepreneurship	Business Law Entrepreneurship

PATHWAY COURSES* Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
Business Concepts Career Pathways & Success Skills	Personal Finance Introduction to Stocks and Investments	Accounting 1	Accounting 2 **(SHS)** Advanced Principles of Accounting **(WHS)**
***for students interested in a finance pathway through the Academy of Finance (WHS) please see page 133**			

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
Accounting Assistant Accounting Technician Business Skills Bookkeeping	Business Finance	Accounting Economics Finance Business Data Analytics Management Supply Chain Management

Healthcare

WHS

Pathway Summary:

Healthcare focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. Stamford Public Schools is partnering with Excel Academy to offer the CNA - Certified Nursing Assistant course including clinical hours outside of school hours to give students the opportunity to acquire this professional certification during high school.

Pathway Courses:

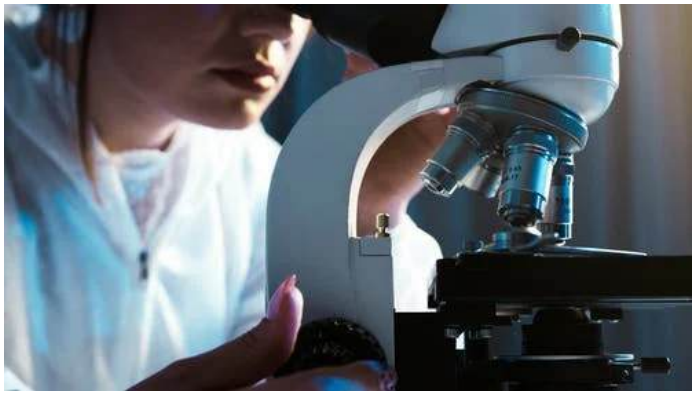
- Introduction to Health Care Occupations
- Medical Terminology and Skills
- CNA-Certified Nursing Assistant

Additional Recommended Courses:

- Sports Medicine
- Human Physiology

Recommended Clubs & Organizations:

- Future Medical Professionals



Future Careers:

(4yrs of college): Medical and health services managers, Emergency Management directors, Dietitians, Nutritionist, Recreational Therapist, Exercise physiologist, Registered nurse, Athletic trainer

(2yrs of college): Registered Nurse, Dental Hygienist, Occupational Therapy Assistant, Respiratory Therapist, Radiography, Medical Laboratory Technician, Pharmacy and Surgical Technician

(Certification): Emergency medical technician, Paramedic, Psychiatric technician, Surgical technologist, Ophthalmic medical technician, Licensed practical nurse, certified nursing assistant, Dental assistant, Medical assistant, Phlebotomist, EKG Technician, Homemaker Companion, Medical Billing Professional, Medical Coding Specialist, Medical Coding Professional, Patient Care Technician, Physical Therapy Aide

RECOMMENDED PROGRAM OF STUDY – HEALTHCARE

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, or CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses	First-Year Seminar		Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives			Human Physiology Sports Medicine	Human Physiology Sports Medicine

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One	**Level Two**	**Level Three**	**Level Four**
		Introduction to Healthcare Occupations	Medical Terminology and Skills CNA- Certified Nursing Assistant

COLLEGE AND CAREER PATHS			
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**	**Master's Degrees**
Emergency medical technician Paramedic Ophthalmic medical technician Licensed practical nurse Certified nursing assistant Dental assistant Medical assistant Phlebotomist	Registered Nurse Dental Hygienist Occupational Therapy Assistant Physical Therapy Assistant Respiratory Therapy Radiography Medical Laboratory Technician	Medical and health services management Emergency management Dietitian Nutrition Recreational therapy Exercise physiology Registered nurse Athletic Trainer	Physician Assistant Occupational therapy Speech-language pathology Nurse anesthetist Nurse practitioner Acupuncture

Manufacturing

WHS | SHS

Pathway Summary:

The Manufacturing Pathway focuses on planning, managing, and performing materials processing into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing, and process engineering. Through real-world project-based instruction, students will build valuable life and industry-specific skills that will set them above their competition during employment-seeking and/or post-secondary education in the competitive world of manufacturing.

Students will learn programs like TinkerCad, Fusion 360, OnShape, and SolidWorks. Students will have access to 3D printers, CNC machines, and laser technology and design, prototype, and improve on student-led hands-on products.

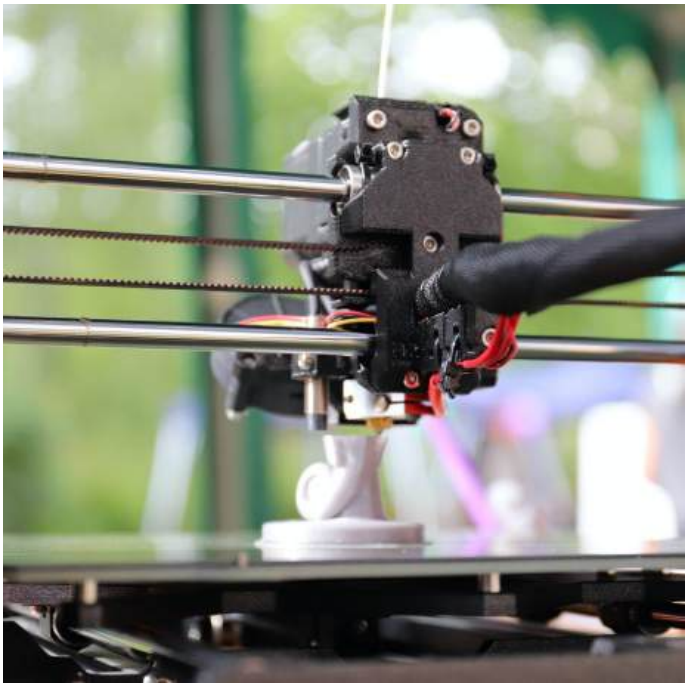
Students can receive 5 college credits from CT State Housatonic in Benchwork and Blueprint Reading.

Pathway Courses:

- Introduction to Manufacturing **(SHS) (WHS)**
- CT State Housatonic Manufacturing:
  - Blueprint Reading **(WHS)**
  - Benchwork **(WHS)**
- Advanced Additive/Subtractive Manufacturing **(WHS)**

Additional Recommended Courses:

- Power and Mechanics **(WHS)**
- Applied Business Concepts for Manufacturing **(WHS)**



Recommended Clubs & Organizations:

- Technology Student Association (TSA)

Future Careers:

(4yrs of college):

Industrial Engineers, Material Scientists, Manufacturing Managers

(2yrs of college)

Manufacturing Engineering Technology, Manufacturing Machine Technology

(Short-term training, apprenticeship, on-the-job training):

CNC Machine Tool Operators, Industrial Machinery Mechanics, Machinists, Maintenance and Repair Workers, Welders

RECOMMENDED PROGRAM OF STUDY – MANUFACTURING

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 1 2 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses			Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives				Power and Mechanics **(WHS)**

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
	Introduction to Manufacturing	Blueprint Reading **(WHS)** Benchwork **(WHS)**	Advanced Additive/ Subtractive Manufacturing **(WHS)**

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
Manufacturing Machine Technology Advanced Welding Computer Aided Drafting (CAD)	Manufacturing Engineering Technology Manufacturing Machine Technology	Manufacturing Engineering Technology Manufacturing Management Mechanical Engineering & Material Science Robotics & Mechatronics Engineering

Marketing

WHS **SHS**

Pathway Summary:

Careers in planning, managing and performing marketing activities to reach organizational objectives, including research and development.

Pathway Courses:

- Business Concepts
- Marketing in the 21st Century
- Entrepreneurship
- Marketing Education 2 **(SHS)**
- Sports and Entertainment Management and Marketing
- Esports Management **(WHS)**

Additional Recommended Courses:

- Career Pathways & Success Skills
- Business Law
- Personal Finance
- Information Technology
- Information Technology and Design

Recommended Clubs & Organizations:

- Future Business Leaders of America (FBLA)
- Distributive Education Clubs of America (DECA) **(SHS)**
- Westhill Entrepreneurs **(WHS)**

Future Careers:

(4yrs of college): Marketing Research Analysis and Marketing Specialists, Marketing managers, Public Relations and Fundraising Managers, Public Relations Specialist

RECOMMENDED PROGRAM OF STUDY – MARKETING

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, or CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses			Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives	Career Pathways Information Technology	Information Technology and Design	Business Law Personal Finance	Business Law Personal Finance

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
Business Concepts	Marketing in the 21st Century Entrepreneurship	Marketing in the 21st Century Entrepreneurship	Marketing Education 2 **(SHS)** Sports Entertainment Management and Marketing

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
		Advertising and Promotion Manager Marketing Manager Sales Manager Public Relations and Fundraising Manager Market research analyst

Public Safety

WHS	SHS

Pathway Summary:

The Public Safety pathway prepares students with a broad-based foundational knowledge in careers that involve public safety. The educational foundation will assist students who wish to pursue related professional training at the postsecondary level. Students will gain experience through classroom instruction, hands-on training, and workplace learning in the field.

Pathway Courses:

- Intro to Public Safety
- EMS Explorer: Fundamentals of Emergency Medical Services and Advanced Emergency Medical Procedures

Recommended Clubs & Organizations:

- Stamford Police Department
- Stamford Fire Department
- Stamford Emergency Medical Services

Future Careers:

(4yrs of college):

Arbitrators, Forensic science technicians, Probation officers and correctional treatment specialist

(Certification):

Court reporters and simultaneous captioners, Emergency medical technicians, Fire inspectors and investigators, Firefighters, Paralegals and legal assistants

(High School Diploma):

Animal control workers, crossing guards and flaggers, customs and border protection officers, forest fire inspectors and prevention specialists, Lifeguards, and other recreational protective service workers, Police and sheriff's patrol officers, Private detectives and investigators, Public safety telecommunications, Security guards

RECOMMENDED PROGRAM OF STUDY – PUBLIC SAFETY

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses			Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives			Introduction to Healthcare Occupations	Medical terminology and Skills

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
		Intro to Public Safety	EMS Explorer 1 and 2

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
Security Guard Emergency Medical Technician Cybersecurity Firefighter 1 & 2	Criminal Justice Cybersecurity Forensics Law Enforcement Fire Technology and Administration Paramedic Studies	Fire Protection Engineering Forensic Science Forensic Psychology Homeland Security & Emergency Mgt.

Science, Technology, Engineering, & Mathematics (S.T.E.M.)

WHS | SHS

Pathway Summary:

STEM focuses on planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and reach and development services.

Future Careers:

(4yrs of college): Engineering (Aerospace, Civil, Electrical, Mechanical, Transportation, Nuclear, Environmental, Biomedical, Chemical, Nuclear, Computer, Software, Industrial, Materials), Environmental Scientists and Specialists, Physicist, Chemist, Computer Scientist

(2yrs of college): Web Developers, Computer user support specialists, Geological and petroleum technicians, Environmental engineering technicians, Computer network support specialists, Civil engineering technicians, aerospace engineering and operations technicians

(Certification): Help Desk Technician, Mechatronics Automation Technician, Smartphone App Development, Web Developer, Field Service Technicians, Technical Support Specialists

Pathway Courses:

- Introduction to Computer Science
- Introduction to Robotics **(WHS)**
- Robotics 2 **(WHS)**

Additional Recommended Courses:

- AP Computer Science Principles
- AP Computer Science A **(WHS)**
- CT State Norwalk Introduction to Programming **(SHS)**

Recommended Clubs & Organizations:

- Engineering Tomorrow
- Math Team

RECOMMENDED PROGRAM OF STUDY – SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, ,IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses			Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One	Pathway Level Two	Pathway Level Three	Pathway Level Four
Additional Recommended Electives			AP Computer Science Principles	CT State Introduction to Programming **(SHS)** AP Computer Science A **(WHS)**

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
Introduction to Computer Science	Introduction to Robotics	Robotics 2 **(WHS)**	

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
Help Desk Technician Mechatronics Automation Technician Smartphone App Development Web Developer IT Support Data Analytics UX Design Android Development	Engineering Science Transfer Ticket Technology Studies Transfer Ticket Computer Science Software Engineering Mobile Programming Web Development and Design	Engineering: • Civil • Computer • Mechanical • Electrical • Aerospace • Materials Science • Manufacturing

Transportation Management

WHS

Pathway Summary:

The transportation management pathway focuses on the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

Pathway Courses:

- Introduction to Automobiles
- Power and Mechanics

Recommended Clubs & Organizations:

- Math Team

Future Careers:

(4yrs of college): Engineering (Civil, Computer, Mechanical, Electrical, Transportation, Aerospace, Materials Science, Manufacturing)

(2yrs of college): Aerospace engineering and operations technologists and technicians, Civil engineering technologists and technicians, Electrical and electronic engineering technologists and technicians, Electro-mechanical and mechatronics technologists and technicians, Industrial engineering technologists and technicians, Mechanical engineering technologists and technicians

(Certification): Aircraft mechanics and service technicians, Automotive mechanics and service technicians, Motorcycle mechanics, Heating, air conditioning, and refrigeration mechanics and installers, Wind turbine service technician

RECOMMENDED PROGRAM OF STUDY – TRANSPORTATION MANAGEMENT

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World History (H or CP)	US History (H or CP)	Civics 1 / Civics 2 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, , IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III(H)	Pre-Calculus (CP)	Calculus (AP, CP) Statistics (AP)	
Science	Integrated Science (H, CP)	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (H, CP), Chemistry (H, CP), Physics (AP, H or CP) or any elective	Biology (AP), Chemistry (AP), Physics (AP, H or CP) or any elective
Other Required Courses	First-Year Seminar			
			Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One	Pathway Level Two	Pathway Level Three	Pathway Level Four
Additional Recommended Electives	Business Concepts	Marketing	International Business	

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One	**Level Two**	**Level Three**	**Level Four**
Introduction to Automobiles	Power and Mechanics		

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
Aircraft mechanics and service technicians Automotive mechanics and service technicians Motorcycle mechanic Heating, air conditioning, and	Aerospace engineering and operations technologists and technicians Civil engineering technologists and technicians Electrical and electronic engineering technologists and technicians Electro-mechanical and mechatronics technologists and technicians	Engineering: • Civil • Computer • Mechanical • Electrical • Transportation • Manufacturing

CARPENTRY - WHS

Stamford Public Schools, in partnership with the North Atlantic States Carpenters Training Fund, offers seniors who enroll in the General Construction - Emerging Technologies class the opportunity to earn credentials equating to the first year of a 4 year carpenter apprenticeship. The Pre-Apprenticeship includes the following:

- Host visits to the carpenters' training centers (Woodshop Fridays).
- Provide instruction and training to prepare participants to enter the Carpenters Registered Apprenticeship Program.
- Involve employer and union partners in assessing applicants, delivering training, and placing qualified graduates in industry-related employment and the carpenter union apprenticeship.
- Provide feedback on program components to ensure the needs of participants and align with industry standards.
- Students will receive the necessary tools for the first year, drug test fees, state registration fees, and union initiation fees.
- Students who meet eligibility requirements can transition into this program's work-based *(co-op)* portion. The student will be able to work with one of the partner contractors as a 1-year apprentice at a rate of **45%** of the journeyman wage as part of the Apprenticeship Program.
- Upon graduation from High School and this program (both classes) and a skill based assessment, the apprentice will be granted 1000 hours or (1-year credit) towards their 4-year Apprenticeship. This will amount to a participant earning an advancement up to a 2nd-year Apprentice, as specified in the Articulation Agreement, and command a wage of **$**21.75 and fringe benefits valued at **$16.41** for a total compensation rate of **$38.16** an hour. *The subsequent Adjustment is anticipated for May 4th, 2025.*

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

1190 - Woodworking	
Credit(s) 0.5	This course focuses on the most widely used construction and manufacturing materials. The student is exposed to the techniques and processes standard for designing and producing a product through a series of projects and problem-solving activities. This is an activity-oriented, lab-based class.
WHS	

1220- General Construction - Emerging Technologies	
Credit(s) 0.5	Students will design, plan, identify, solve problems, and build prototypes. This is an activity-based class in which students use electrical and mechanical equipment to create solutions to technical issues. Students in this class will first study the building of structures. Full-size and model buildings will be reviewed. Conventional and modern technologies are discussed and used in the design and production. Students will then move on to the practical application of mechanical devices, products, or substances to contribute to the harmony between humans and their environment. Students cover the 1st year apprenticeship curriculum in partnership with the North Atlantic States Carpenters Training Fund.
WHS	
Prerequisite	Woodworking

Cooperative Work Education

• Are you going to be a Junior or Senior who currently has a part-time job?

• Are you interested in leaving school early to receive High School Credit for your work-experience?

• Do you want to apply employability skills and business education at the workplace?

• Do you want to discover how your current part-time job helps develop skills beyond the classroom?

The Stamford Public Schools Cooperative Work Education Program is designed to equip Juniors and Seniors (who will be preferred) with real-world occupational skills as well as a business-oriented curriculum to support a successful transition into the workforce. The Cooperative Work Education program is made up of two components: virtual asynchronous modules and work-based learning experiences. The 0.5 credit virtual CWE class contains a career development curriculum focusing on soft skills at the workplace and discussing workplace-related case studies. Students earn 0.5 - 1 credit (depending on logged work hours) for the work-based learning. This adds up to a combined 1-1.5 credit(s). Students may use their current job and must submit online academic work. The CWE program is open to Juniors and Seniors at SHS and WHS who are interested in learning about the world of work. Approval from an administrator and school counselor is required.

Prerequisite: Approval from the administrator and school counselor

ACADEMY OF FINANCE
Intradistrict located at WESTHILL HIGH SCHOOL

The Academy of Finance is a member program of the National Academy Foundation addressing the needs of the nation's high school students by providing them with the education needed to succeed in the challenging and rapidly changing finance industry. In addition to required high school courses, Academy students take a number of highly specialized courses each semester. The honors curriculum provides high-achieving and passionate National Academy Foundation students at Westhill with challenges and opportunities that will allow these students to achieve their intellectual and professional goals.

To fulfill the Academy's requirements, students must complete the following courses:

In Sophomore year
- Honors Accounting 1

In Junior year
- Honors Financial Planning
- Honors Principles of Finance

In Senior year
- Honors Business Economics
- Honors Business in Global Economy

Also to be completed are:
- Information Technology
- Information Technology and Design

Students who participate in this three-year program gain the necessary technical, analytical, and communications skills needed to succeed in the business world. As Academy members, students participate in employment readiness workshops, project-based learning experiences, and paid summer internships in the financial services industry. They have the opportunity to earn college credit in their senior year.

Moreover, Academy students have the on-going opportunity to interact with Academy peers attending other high schools through online services and periodic visitations. All members must agree to conform with mutual expectations outlined in the Academy's "Student's Responsibilities" and maintain attendance standards. Those students who meet the Academy requirements receive a certificate of completion at graduation.

Intra District Program Information:
- For the students districted to Westhill High School, the application to the Academy is made during the student's freshman year. For more information, go to the Westhill High School website
- The Academy of Finance will recruit current eighth-grade students who are **NOT DISTRICTED** to Westhill High School to apply and join the program as freshmen at Westhill High School.

Required freshmen classes for students in the Academy of Finance:
Information Technology (2115)
Information Technology and Design (2075)

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

2171 - Honors Accounting 1 (WHS)	
Credit(s) 1	This course introduces financial accounting theory and practices for the sole proprietor, partnerships, and corporate forms of business organization. Students learn the basics of the accounting cycle and learn how to use accounting information as a basis for decision-making. Business transactions are analyzed, recorded, and summarized for the preparation of financial statements.
Grade 10	
WHS	

2811 - Honors Financial Planning (WHS)	
Credit(s) 0.5	This course introduces students to the financial planning process and the components of a comprehensive financial plan. The students learn how to prepare a financial plan that includes saving, investing, borrowing, risk management (insurance), and retirement and estate planning.
Grade 10	
WHS	

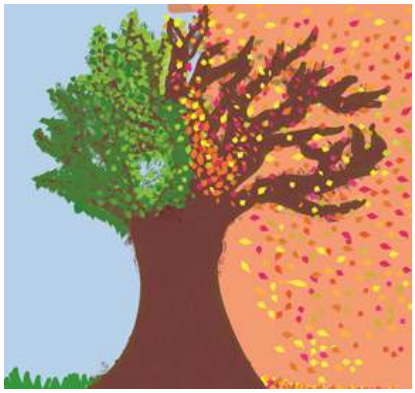
2801 - Principles of Finance (WHS)	
Credit(s) 0.5	This course presents a survey of the principles and practices of banking and credit in the United States. The students learn about the major functions of banks and other depository institutions, in-house operations and procedures, central banking through the Federal Reserve System, and modern trends in the banking industry. The credit components provide an overview of credit functions and operations including credit risk evaluation, loan creation, and debt collection.
Grade 11	
WHS	

2821 - Honors Business Economics (WHS)	
Credit(s) 0.5	This course presents a survey of the principles and practices of banking and credit in the United States. The students learn about the major functions of banks and other depository institutions, in-house operations and procedures, central banking through the Federal Reserve System, and modern trends in the banking industry. The credit components provide an overview of credit functions and operations including credit risk evaluation, loan creation, and debt collection.
Grade 12	
WHS	

2841 - Honors Business in Global Economy (WHS)	
Credit(s) 0.5	This course explores the major components of the international financial system. It includes the study of foreign trade, the international monetary system, foreign exchange rates, foreign exchange markets, international financial markets, international banking, and multinational corporations.
Grade 12	
WHS	

*See **CAREER & TECHNICAL EDUCATION – BUSINESS** on page 175 for additional courses helpful in preparation for a career in finance and business.*

AGRISCIENCE AND TECHNOLOGY
Interdistrict located at WESTHILL HIGH SCHOOL



The Agriscience and Technology Program, located at Westhill High School, offers an opportunity for all in the lower Fairfield County region to explore the nation's largest commercial business – AGRICULTURE! Over 2000 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 (Future Farmers of America), 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 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.

With limited space available, all students interested in the Agriscience and Technology Program must fill out an application and be interviewed. They will receive a letter in the mail informing them of the status of their application.

For further information call the Agriscience & Technology Center at 977-4974.

****All courses will run next year based upon student requests. We may not run the course if a course is not at <u>80%</u> capacity.**

Course Offerings	
Agriscience and Technology 1	Nursery Production and Landscape Design
Biotechnology-Agri-Science	Advanced Placement Environmental Science UConn ECE
Agriscience & Technology 2	Botany 9
Veterinary Science	Introduction to Beekeeping
Intro to Companion Animals - UConn ECE	Natural Resources & Wildlife Management
Animal Science and Technology	Introduction to Power, Structural & Technical Systems
Behavior & Training of Domestic Animals UConn ECE	Zoology & Exotic Animal Science
Agribusiness Management and Marketing	Food Justice & Law
Food Science	Applications in BioEngineering
Aquaculture	Marine Science & Oceanography
Floral Design	Sustainable Urban Agriculture
Greenhouse Management	Summer Sustainable Urban Agriculture

RECOMMENDED PROGRAM OF STUDY – AGRISCIENCE

The following is a suggested sequence of courses required to successfully complete this pathway.

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Language Arts	English 9 (H or CP)	English 10 (H or CP)	English 11 (AP, H or CP)	English 12 (AP, ECE, H or CP)
Social Studies	World (H or CP)	US History (H or CP)	Civics 1 (H or CP)	
	AP Human Geography	AP World History	AP, ECE, IB	
Mathematics	Integrated Math I (H or CP)	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Precalculus (H or CP)
	Integrated Math II (H or CP)	Integrated Math III (H or CP)	Precalculus (H or CP)	Calculus (AP, CP) Statistics (AP)
	Integrated Math III (H)	Precalculus (H or CP)	Calculus (AP, CP) Statistics (AP)	
Science	Biology (H or CP)	Chemistry (H or CP)	Physics (AP, H or CP)	
	CP Physical Science	Biology (H or CP)	Chemistry (H or CP)	
Other Required Courses	First-Year Seminar		Personal Finance - *Starting with Class of 2027	
	Civics: One half credit at any time during Grades 9-12			
	Health: One credit typically during Grades 9 & 10			
	Physical Education: One credit typically during Grades 9 & 10			
	World Language: One credit at any time during Grades 9-12			
	Fine Arts: One credit at any time during Grades 9-12			
Pathway Courses	Pathway Level One (see below)	Pathway Level Two (see below)	Pathway Level Three (see below)	Pathway Level Four (see below)
Additional Recommended Electives		See Agriscience and Technology on pg. 47	See Agriscience and Technology on pg. 47	See Agriscience and Technology on pg. 47

PATHWAY COURSES Students entering the pathway for the first time begin by enrolling in the Level One course.			
Level One (9th grade)	**Level Two (10th grade)**	**Level Three (11th grade)**	**Level Four (12th grade)**
Agriscience and Technology I	Agriscience and Technology II	See Agriscience and Technology on pg. 47	See Agriscience and Technology on pg. 47

COLLEGE AND CAREER PATHS		
Industry Certifications	**Associate's Degrees**	**Bachelor's Degrees**
Veterinary technician	Animal Science Plant and Soil Science Horticulture Precision Agriculture Agricultural Production Agricultural Business	Animal Science Food science Soil and plant scientists Microbiology Zoology and wildlife biology Conservation science Forestry

0540 - Agriscience and Technology 1	
Credit(s) 1	This introductory Agriscience and Technology course introduces students to the exciting world of plants, animals, the environment, floral design, aquaculture, marine science, agricultural mechanics, food science, and the many educational opportunities and careers that involve these areas of study. Classroom activities are reinforced with technology and basic lab work. Skills in leadership and teamwork through FFA instruction are stressed.
WHS	

0542/0546 - Biotechnology - Agri-science	
Credit(s) 2	This course explores the scientific, legal, and ethical aspects of Biotechnology including its application in agriculture, health medicine, forensics, and the environment.
WHS	
Prerequisite:	Agriscience & Technology 1

0650 - Agriscience and Technology 2	
Credit(s) 2	This course provides students with the opportunity to investigate with more depth the broad field of Agriscience and Technology. Students apply field and laboratory methods to enhance lecture material while expanding on their knowledge of agricultural topics. In addition to covering more Agriscience and Technology 1 topics in depth, biotechnology, parliamentary procedure, and marketing are added.
WHS	
Prerequisite:	Agriscience & Technology 1

0683/0686 - Veterinary Science	
Credit(s) 1	This course is designed to prepare you for further education or a career in the field of veterinary science. This is a rigorous course developed to educate you in fields such as animal anatomy and physiology, veterinary terminology and abbreviations, veterinary office management and focuses on many different species of animals. This course will have many hands-on labs in the veterinary field and we will also be performing dissections to understand and view animal anatomy and body systems. By taking this course, you will be expected to participate in all labs and activities throughout the year.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0690 - Intro to Companion Animals	
Credit(s) 1	This course will prepare students looking to pursue education and/or a career in the companion animal industry. Students will be able to describe the nutrition, anatomy, genetics, reproduction, and management of various companion animals as well as discuss and evaluate ethical or current issues regarding companion animals.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0687/0688 - Animal Science and Technology	
Credit(s) 1	This course is designed for junior and senior Agriscience students interested in pursuing an education and career in the field of animal science. Through hands-on experiences, students will learn and explore the science behind animal nutrition, anatomy and physiology, behavior and training, growth, biology, and more. This course will focus on livestock and production animals.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0691 - Behavior and Training of Domestic Animals UConn ECE	
Credit(s) 1	This course will prepare students for further education and/or a career in the animal behavior industry. Students will understand the basics of normal and abnormal behavior in domestic animals and learn to apply psychological principles to animal management and training. Students will also interpret research results evaluate their applicability to domestic animal management and understand how to apply the principles of ethology to solve animal welfare problems.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0692 - Agribusiness Management and Marketing	
Credit(s) 1	This course will cover the basics of Agribusiness Management and Marketing. Students will create a mock business to gain hands-on experience in management skills, marketing, and financial analysis. Students will also learn about professional etiquette and other valuable skills such as goal setting, how to write a cover letter and resume, job interview skills, public speaking skills, and more.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0693 - Food Science	
Credit(s) 1	An introductory level course for students interested in the application of science to food. Nutritional and functional attributes of various food constituents are discussed. Issues concerning food processing and food safety are covered.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0560 - Aquaculture	
Credit(s) 1	This course gives students the knowledge and skills needed for producing fish, plants, and other species living in a freshwater aquatic environment. Topics covered may include the selection, propagation, harvesting, and marketing of aquatic species. Instruction may also address aquatic biology, ecosystems, water quality and management, and business practices.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0548/0651 - Floral Design	
Credit(s) 1	The study of flower arrangement as an art form with emphasis on historical background, artistic principles, color harmony, and care of perishable media is covered in this course. Individual expression is encouraged in the creation of floral compositions.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0561 - Greenhouse Management	
Credit(s) 1	This course examines the science and practice of horticultural plant propagation and culture in an indoor, greenhouse setting. The focus of this course will be on greenhouse crops and indoor, tropical plants. Students will get hands-on experience learning in a working greenhouse. The laboratory-reinforced learning of the basic concepts of plant structure, growth, and function, integrated pest management, the impact of new technology, plant identification, and horticulture's impact on the environment will be discussed.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0562 - Nursery Production and Landscape Design	
Credit(s) 1	This course examines the science and practice of horticultural plant propagation and culture for plants commonly used in landscape design. Students will get hands-on experience working and creating a landscape design project from start to finish. The laboratory reinforced learning of the basic concepts of safe tool use, Plant Identification, Principles of Design, and Grafting/Drawing.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

8742/8743 - UConn ECE/Advanced Placement Environmental Science	
Credit(s) 1	This is a college-level accredited course that gains AP status. Students must complete the course with a grade of C or better to receive UConn credit. The cost to the student is $25 per UConn credit. This course covers the same topics as AP Environmental Science and compares in rigor. Students are expected to take the Advanced Placement examination at the conclusion of the course.
WHS	
Prerequisite:	Agriscience & Technology 1 & 2

0653 - Botany 9	
Credit(s) 1	Botany is the scientific study of plants and their relationship to the environment. In this course, students investigate the growth, reproduction, anatomy, morphology, physiology, biochemistry, taxonomy, genetics, and ecology of plants. This course will be beneficial for college-bound students who are interested in a career in scientific research, biotechnology, medicine, and plant science.
WHS	
Prerequisite:	Agriscience & Technology 1 and concurrent enrollment in Agriscience & Technology 2

0654 - Introduction to Beekeeping	
Credit(s) 1	This is an introductory course to beekeeping and apiary science. It is designed to give students the career skills needed in a beekeeping enterprise and to emphasize the importance of honey bees in our daily lives and in agricultural production. Topics covered: anatomy/physiology, colony organization, housing and equipment, bee selection, apiary location, hive management, pest control and diseases, and honey production.
WHS	
Prerequisite:	Agriscience & Technology 1 and concurrent enrollment in Agriscience & Technology 2

0655 - Natural Resources & Wildlife Management	
Credit(s) 1	This course focuses on the conservation of our natural resources and endemic wildlife. Students will understand and appreciate the importance of maintaining the land and ecological systems that enable non-domesticated animals to thrive. We will study how humans and animals may both take advantage of the same land as well as how to gain economic benefits from the land while not degrading its natural resources or depleting plant or animal populations.
WHS	
Prerequisite:	Agriscience & Technology 1 and concurrent enrollment in Agriscience & Technology 2

0656 - Introduction to Power, Structural & Technical Systems	
Credit(s) 1	This courses will introduce students to the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. While learning to apply basic industrial knowledge and skills (engine mechanics, power systems, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; a study of electricity and power principles; and safety procedures.
WHS	
Prerequisite:	Agriscience & Technology 1 and concurrent enrollment in Agriscience & Technology 2

0657 - Zoology & Exotic Animal Science	
Credit(s) 1	In this course, students will study and gain experience in caring for and handling exotic species of animals, as well as take an in-depth look at conservation biology, species distribution and evolutionary history, and health and disease management of exotic species of animals. An exploration of zoological careers is also included. Class activities will include students working hands-on with the exotic species that are housed in our animal labs as well as engaging in group work, lab work, and research-based projects to prepare students for pursuing a career with exotic animals.
WHS	
Prerequisite:	Agriscience & Technology 1 and concurrent enrollment in Agriscience & Technology 2

0658 - Food Justice & Law	
Credit(s) 1	This course focuses on analyzing food safety regulations and current food laws, as well as studying the general public's varying perspectives of agriculture and food. Class activities will examine and reinforce the general knowledge of the politics behind creating food policies and food availability.
WHS	
Prerequisite:	Agriscience & Technology 1 and concurrent enrollment in Agriscience & Technology 2

0659 - Applications in Bioengineering	
Credit(s) 1	This course is designed to introduce students to the world of genetics, bioengineering, and pharmacological biotechnology. In this course, students will study the basis of genetics, the connection between our genetics and health, and examine how our genetic information influences the pharmaceutical industry and medical biotechnology. Students will participate in hands-on labs as well as various class activities that reinforce the connection between genetics, microbiology, pharmacology, and biomedical engineering.
WHS	
Prerequisite:	Agriscience & Technology 1 and concurrent enrollment in Agriscience & Technology 2

0547 - Marine Science & Oceanography	
Credit(s) 1	This course is designed to give students the introductory skills and knowledge for a career in marine sciences, be it on the ocean or keeping saltwater tanks. Students will maintain various saltwater tanks ranging from production to breeding to reef aquariums. Topics covered may include production and ornamental species, water chemistry, ocean pollution, coral fragging, marine water parameters, ocean currents, and ocean chemistry.
WHS	
Prerequisite:	Agriscience & Technology 1 and concurrent enrollment in Agriscience & Technology 2

0678 - Sustainable Urban Agriculture	
Credit(s) 1	In this course, we will look at best practices for urban farming from soil health, seeds & seedling selection, sustainable pest management, and harvesting with a lens for social change. Participants will design and start their own urban farm in their school while immersing themselves in answers to questions surrounding land acquisition, sustainable agricultural practices, and access to fresh, local produce. Participants will explore topics of maximizing city spaces, selecting and sourcing seeds, traditional land management practices, and food harvesting and preservation techniques that integrate nutrition practices, socio-emotional learning, and culturally responsive pedagogy.
WHS	
Prerequisite:	Agriscience 1 & Agriscience 2

0679 - Summer Sustainable Urban Agriculture	
Credit(s) 1	The course will be focused on building and sustaining a small urban farm that can be a model for the Stamford community consisting of a field production lab (vegetable garden), vineyard, mushroom garden, apiary, and poultry lab (egg layers and broiler chickens). Students will manage all sections to maximize food production via chemical-free, sustainable practices. Food will be processed in our Food Science Lab via fermentation, canning, pickling, dehydrating, or cooking and made available to our community.
WHS	

	In this course, we will look at best practices for urban farming from soil health, seeds & seedling selection, sustainable pest management, and harvesting with a lens for social change. Participants will design and start their own urban farm in their school while immersing themselves in answers to questions surrounding land acquisition, sustainable agricultural practices, and access to fresh, local produce. Participants will explore maximizing city spaces, selecting and sourcing seeds, traditional land management practices, and food harvesting and preservation techniques that integrate nutrition practices, socio-emotional learning, and culturally responsive pedagogy.
Prerequisite:	Agriscience & Technology 1

Mya Vera - Westhill High School

Isabel Medina - Westhill High School

Grace Twum - Westhill High School

HIGH SCHOOL OF BUSINESS
Intradistrict located at STAMFORD HIGH SCHOOL

The High School of Business™ *(HSB)* is a member program from MBA Research and Curriculum Center. The program is designed to prepare students for college business programs. This is accomplished by having the students work through challenging real-world business problems and projects. Teams of students work on projects, providing an authentic reason for learning. It's engaging, it's challenging, and it naturally teaches the 21st-century skills necessary for success in college and career now and in the future. Students take 6-semester courses and complete the program with a capstone course that challenges them to start and run their own businesses.

To fulfill the High School of Business' requirements students must complete the following courses:

In Freshmen Year or Sophomore year

- Principles of Business

In Freshmen year or Sophomore year

- Business Economics

In Junior year

- Principles of Marketing
- Principles of Finance

In Senior year

- Principles of Management
- Business Strategies

Up to 9 college credits are available for students passing the national exams.

Students interact with local businesses in our community to gain the skills, knowledge, and confidence needed for a future in business either at college or in a career.

Students who participate in this three-year program participate in an observational internship experience which enables students to network with people in different areas of business to narrow down their own particular interest area.

Application to the High School of Business is made during the student's freshman year. For more information, go to the Stamford High School website.

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Course Offerings	
Principles of Business Business Economics Principles of Marketing	Principles of Finance Business Strategies **NEW** Principles of Management **NEW**

2842 - Principles of Business (SHS)	
Credit(s) 0.5	Project-based learning course aimed at developing understanding in areas such as business law, economics, financial analysis, human resource management, information management, marketing, operations, and strategic management. This is the first course in the High School of Business (HSB) program which is designed to simulate a college business administration program. An interview and application are necessary to enter the program. **9th grade or 10th grade**
SHS	

2821- Business Economics (SHS)	
Credit(s) 0.5	Project-based business course which will develop a student's understanding of economics, operations, and professional development. Through the use of six projects, students acquire an understanding of economic decision-making and entrepreneurial contribution. Interview and application process. 9th or **10th grade**
SHS	
Prerequisite:	Principles of Business

2367 - Principles of Marketing (SHS)	
Credit(s) 0.5	In this course, students develop an understanding and skills in channel management, marketing-information management, market planning, pricing, product/service management, promotion and selling. **11th grade only**
SHS	
Prerequisite:	Principles of Business & Business Economics

2366 - Principles of Finance (SHS)	
Credit(s) 0.5	Students further their understanding of two specific business activities, accounting, and finance through multiple projects that make connections between accounting, cash flow, finance, and decision-making. **11th grade only**
SHS	
Prerequisite:	Principles of Business & Business Economics

2096 - Business Strategies (SHS) NEW!	
Credit(s) 0.5	Students further their understanding of two specific business activities, accounting, and finance through multiple projects that make connections between accounting, cash flow, finance, and decision-making. **12th grade only**
SHS	
Prerequisite:	Principles of Management

2094 - Principles of Management (SHS) NEW!	
Credit(s) 0.5	This project-based business course furthers student understanding of management and management functions. Through individual and team activities, students make connections between management and business success. A significant portion of the Principles of Management course is also devoted to in-depth planning and preparations necessary for the successful operation of the students' class business, to be actualized in the HSB capstone Business Strategies course. **12th grade only**
SHS	
Prerequisite:	Principles of Finance

Aniyahlee Rodriguez - Westhill High School

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAMME
Intradistrict located at STAMFORD HIGH SCHOOL

The International Baccalaureate Diploma Programme (IBDP) is a rigorous, two-year comprehensive program offered at Stamford High School during a student's junior and senior years. The IBDP is designed to prepare students for success in higher education and incorporates the themes of cultural awareness and international mindedness in the curricula across all subject areas. Unless otherwise noted, all courses are two years in length and are offered at the Standard Level (SL) and Higher Level (HL). In comparison to SL courses, HL courses cover more subject matter in more depth and require additional assessments.

Students can pursue either Diploma Candidacy or Course Candidacy within the IB Diploma Programme. Diploma Candidates are required to take six subject courses (one each from Groups 1-5 and a sixth course from group 3, 4 or 6 in addition to the Theory of Knowledge course [TOK]). Students must also successfully complete the Extended Essay (EE) and Creativity, Activity, Service (CAS) requirements in order to complete the IBDP. Students must take a minimum of three and a maximum of four HL courses. Application to the IBDP is made during the student's sophomore year. For information, go to the Stamford High School website.

There is no application process for Course Candidacy. Course Candidates only need to meet the requirements of the individual courses they elect to take.

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

COURSE OFFERINGS

Group 1:
IB Language and Literature SL 1&2
IB Language and Literature HL 1&2

Group 2:
IB Spanish 1
IB Spanish SL 1&2
IB Spanish HL 1&2
IB Spanish Ab Initio SL 1&2
IB Italian Ab Initio SL 1&2

Counts for Group 3, Group 4 or both

Group 3:
IB Geography SL 1&2
IB Geography HL 1&2
IB History HL 1&2
IB Environmental Science Systems and Societies SL 1&2*
IB Environmental Science Systems and Societies HL1* **NEW**
IB Business Management HL 1&2
IB Psychology SL 1&2
IB Psychology HL 1&2
IB Economics SL 1&2
IB Economics HL 1&2

Group 4:
IB Chemistry SL 1&2
IB Chemistry HL 1&2
IB Physics SL 1&2
IB Environmental Science Systems and Societies SL 1&2*
IB Environmental Science Systems and Societies HL1* **NEW**
IB Biology SL 1&2
IB Biology HL 1&2
IB Computer Science SL 1&2
IB Computer Science HL 1&2

Group 5:
IB Mathematics: Analysis and Approaches HL 1&2
IB Mathematics: Analysis and Approaches SL 1&2
IB Mathematics: Applications and Interpretations: SL 1&2

Group 6:
IB Visual Arts SL 1&2
IB Visual Arts HL 1&2
IB Theatre HL 1&2
IB Theatre SL 1&2
IB Film SL 1
IB Film HL 1

IBDP CORE:
Research Foundations
Theory of Knowledge 1, 2 & 3

3001 - IB Language & Literature SL 1 *3003 - IB Language & Literature HL 1*	
Credit(s) 1	This 11th-grade IB English course is year one of a two-year course. The course focuses primarily on two of the four IB topics: Language in Cultural Context and Literature – Critical Study. At the center of this course is a strong focus on determining the construction of meaning and developing a global perspective. Students will engage in close reading and analysis of a variety of genres including fiction, non-fiction, poetry, media, and visual texts. The SL course requires the reading of a minimum of two works from the IB Prescribed List of Authors, while the HL course requires a minimum of three works.
SHS	

3002 - IB Language & Literature SL 2 *3004 - IB Language & Literature HL 2*	
Credit(s) 1	This 12th-grade IB English course is year two of a two-year course. The course focuses primarily on two of the four IB topics: Language and Mass Communication and Literature – Texts and Contexts. At the center of this course is a strong focus on determining the construction of meaning and developing a global perspective. Students will engage in close reading and analysis of a variety of genres including fiction, non-fiction, poetry, media, and visual texts. The SL course requires the reading of a minimum of two works of literature from the Prescribed List of Authors, while the HL course requires a minimum of three works.
SHS	
Prerequisite:	Completion of IB Language & Literature 1

4001 - IB Spanish SL 1 *4003 - IB Spanish HL 1*	
Credit(s) 1	This 11th-grade IB Spanish course is year one of a two-year course. The SL course is designed to develop both language skills and an understanding of the cultures of the Spanish-speaking world. The HL course is designed for students who have a foundation in Spanish and wish to explore in greater depth and breadth the Spanish language and cultural themes. In both courses, language is acquired through practice and the study of four IB themes: Social Relationships, Cultural Diversity, Communication and Media, and Science and Technology. In addition, the HL course requires the reading of a literary work (short novel or play). All conversations and discussions will be conducted in Spanish.
SHS	
Prerequisite:	For SL, completion of Spanish 2; For HL, completion of Spanish 4 or Heritage Spanish 1

4002 - IB Spanish SL 2 *4004 - IB Spanish HL 2*	
Credit(s) 1	This 12th-grade IB Spanish course is year two of a two-year course. The course continues to explore the Spanish language and cultures of the Spanish-speaking world and will focus on the following themes: Global Issues, Health, Customs and Traditions, and Leisure. Classes will be conducted entirely in Spanish. Students will read various text types such as articles, blogs, and short literary pieces, and listen to and watch authentic audio and visual productions. Students will be required to write in various text types (e.g. articles, letters, reports) and speak in presentations and interviews. In the HL course, students will read a short novel or play and demonstrate an understanding of the work in writing.
SHS	
Prerequisite:	Completion of IB Spanish 1

4005 - IB Spanish 1	
Credit(s) 1	This 11th-grade IB Spanish course is year one of a two-year course. It is designed for students with experience in Spanish. All conversations and discussions will be conducted in Spanish. The course of study is designed to develop language skills and an understanding of the cultures of the Spanish-speaking world. Language is acquired through practice and the study of four IB themes: Social Relationships, Cultural Diversity, Communication and Media, and Science and Technology. The instructor will assess student progress and recommend an HL or SL year two continuation of this course the following year.
SHS	
Prerequisite:	Completion Spanish 2

4007 - IB Spanish Ab Initio SL 1	
Credit(s) 1	This 11th-grade IB Spanish course is year one of a two-year course and is taught at the standard level. This course is a language acquisition course for students with little or no experience in Spanish. The course is organized into three themes: Individual and Society, Leisure and Work, and Urban and Rural Environment. Each theme comprises a list of topics that provide students with opportunities to practice and explore the language and to develop intercultural understanding. Through the development of receptive, productive, and interactive skills, students develop the ability to respond and interact appropriately in a defined range of everyday situations. Students are assessed in the areas of listening, speaking, and writing.
SHS	

4008 - IB Spanish Ab Initio SL 2	
Credit(s) 1	This 12th-grade IB Spanish course is year two of a two-year course and is taught at the standard level. This course is a language acquisition course for students with little or no experience in Spanish. The course is organized into three themes: Individual and Society, Leisure and Work, and Urban and Rural Environment. Each theme comprises a list of topics that provide students with opportunities to practice and explore the language and to
SHS	

	develop intercultural understanding. Through the development of receptive, productive, and interactive skills, students develop the ability to respond and interact appropriately in a defined range of everyday situations. Students are assessed in the areas of listening, speaking, and writing.
Prerequisite:	Completion of IB Spanish Ab Initio SL 1

0201 - IB Italian AB Initio SL 1	
Credit(s) 1	This 11th-grade IB Italian course is year one of a two-year course and is taught at the standard level. This course is a language acquisition course for students with little or no experience in Italian. The course is organized into three themes: Individual and Society, Leisure and Work, and Urban and Rural Environment. Each theme comprises a list of topics that provide students with opportunities to practice and explore the language and to develop intercultural understanding. Through the development of receptive, productive, and interactive skills, students develop the ability to respond and interact appropriately in a defined range of everyday situations. Students are assessed in the areas of listening, speaking, and writing.
SHS	

4008 - IB Italian Ab Initio SL 2	
Credit(s) 1	This 12th-grade IB Italian course is year two of a two-year course and is taught at the standard level. This course is a language acquisition course for students with little or no experience in Italian. The course is organized into three themes: Individual and Society, Leisure and Work, and Urban and Rural Environment. Each theme comprises a list of topics that provide students with opportunities to practice and explore the language and to develop intercultural understanding. Through the development of receptive, productive, and interactive skills, students develop the ability to respond and interact appropriately in a defined range of everyday situations. Students are assessed in the areas of listening, speaking, and writing.
SHS	
Prerequisite:	Completion of IB Italian Ab Initio SL 1

5001 - IB Geography SL 1 ***5003 - IB Geography HL 1***	
Credit(s) 1	This 11th-grade course is year one of a two-year course. The SL course focuses primarily on three IB topics: Urban Environments, Global Climate – Vulnerability and Resilience, and Changing Population. In addition to these topics, the HL course focuses on Power, Places and Networks, and Human Development and Diversity. Students will investigate different aspects of physical and human geography through case studies and research.
SHS	

5002 - IB Geography SL 2 *5004 - IB Geography HL 2*	
Credit(s) 1	This 12th-grade course is year two of a two-year course. The SL course focuses primarily on two IB topics: Global Resource Consumption and Security, and Food and Health. In addition to these topics, the HL course focuses on Global Risk and Resilience, and Leisure, Tourism, and Sport. At the center of this course is a strong focus on critical thinking and analysis. Students will investigate different aspects of physical and human geography through case studies and research.
SHS	
Prerequisite:	Completion of IB Geography 1

5005 - IB History HL 1	
Credit(s) 1	This 11th-grade course is year one of a two-year course. History is an exploratory subject that fosters a sense of inquiry. It is also an interpretive discipline, allowing opportunity for engagement with multiple perspectives and opinions. Studying history develops an understanding of the past, which leads to a deeper understanding of the nature of humans and of the world today. In this year one course, the focus is on world history based on a comparative, multi-perspective approach and focused around key historical concepts such as change, causation, and significance. It involves the study of a variety of types of history, including political, economic, social, and cultural, encouraging students to think historically and to develop historical skills. Students in this course participate in historical investigation.
SHS	

5006 - IB History HL 2	
Credit(s) 1	This 12th-grade course is year two of a two-year course. This course continues to explore world history in a way that fosters a sense of inquiry. It requires students to study and compare examples from different regions of the world, helping to foster international mindedness. Teachers choose relevant examples to explore with their students, helping to ensure that the course meets their students' needs and interests regardless of their location or context. This course continues on with a comparative, multi-perspective approach and focused around key historical concepts such as change, causation, and significance. It involves the study of a variety of types of history, including political, economic, social, and cultural, encouraging students to think historically and to develop historical skills.
SHS	
Prerequisite:	Completion of IB History HL 1

2992 - IB Business Management HL 1	
Credit(s) 1	This 11th-grade course is year one of a two-year course. Students learn to analyze, discuss, and evaluate business activities at local, national, and international levels. The course covers a range of organizations from all sectors, as well as the socio-cultural and economic contexts in which those organizations operate. The course covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing, and operations management. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation, and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment.
SHS	

2993 - IB Business Management HL 2	
Credit(s) 1	This 12th-grade course is year two of a two-year course. Students continue to analyze, discuss, and evaluate business activities at local, national, and international levels. The course covers a range of organizations from all sectors, as well as the socio-cultural and economic contexts in which those organizations operate. The course covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing, and operations management. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation, and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment. In year two, students engage in the study of real-world business organizations.
SHS	
Prerequisite:	Completion of IB Business Management HL 1

5009 - IB Psychology SL 1 *5007 - IB Psychology HL 1*	
Credit(s) 1	This 11th-grade course is year one of a two-year course. This course serves as an introduction to three different approaches to understanding behavior: the biological, cognitive, and sociocultural approaches. Students study and critically evaluate the knowledge, concepts, theories, and research that have developed their understanding in these fields. This course aims to expose students to diverse methods of inquiry and develop an understanding and observance of ethical practice in psychology research. Students explore such areas as: abnormal psychology, developmental psychology, health psychology, and/or the psychology of human relationships. In the HL course, students also analyze qualitative and quantitative research in psychology and evaluate research scenarios from a methodological and ethical perspective.
SHS	

5011 - IB Psychology SL 2 *5008 - IB Psychology HL 2*	
Credit(s) 1	This 12th-grade course is year two of a two-year course. This course continues to discuss three different approaches to understanding behavior: the biological, cognitive, and sociocultural approaches. Students continue to study and critically evaluate the knowledge, concepts, theories, and research that have developed their understanding in these fields. This course aims to expose students to diverse methods of inquiry and develop an understanding and observance of ethical practice in psychology research. Students explore such areas as: abnormal psychology, developmental psychology, health psychology, and/or the psychology of human relationships. In the HL course, students also analyze qualitative and quantitative research in psychology and evaluate research scenarios from a methodological and ethical perspective.
SHS	
Prerequisite:	Completion of IB Psychology 1

5331 - IB Economics SL 1 *5332 - IB Economics HL 1*	
Credit(s) 1	This 11th-grade course is year one of a two-year course. Economics is a dynamic subject that allows students to develop an understanding of the complexities and interdependence of economic activities in a rapidly changing world. Students will explore theories and key concepts and apply those using empirical data through six real-world issues. In both HL and SL, the focus is on introducing economics and exploring microeconomics; HL continues to cover topics with additional attention to market failures and inequities.
SHS	

5332 - IB Economics SL 2 *5342 - IB Economics HL 2*	
Credit(s) 1	This 12th-grade course is year two of a two-year course. This course continues to explore a critical understanding of a range of economic theories, models, ideas, and tools. Students also develop a conceptual understanding of individuals' and societies' economic choices, interactions, challenges, and consequences of economic decision-making. The focus in year two is on macroeconomics and global economics. Students in this course create a portfolio of analytical commentaries of published works on economic issues. HL students also engage in policy paper writing.
SHS	
Prerequisite:	Completion of IB Economics 1

8211 - IB Chemistry SL 1 *8213 - IB Chemistry HL 1*	
Credit(s) 1	This 11th-grade course is year one of a two-year course. The chemistry course allows students to develop a wide range of practical skills and to increase facility in the use of mathematics. It provides students with opportunities to develop manipulative skills, design investigations, collect data, analyze results, and evaluate and communicate their findings. The course focuses on the following IB Chemistry topics: measurements and data processing, stoichiometric relationships, atomic structure, periodicity, chemical bonding and structure, energetics, and chemical kinetics. In the SL course, students will undergo 20 hours of practical work related to the syllabus. Students in the HL course will undergo 30 hours of practical work related to the syllabus.
SHS	
Prerequisite:	Completion of Chemistry Honors and Algebra 2 Honors

8212 - IB Chemistry SL 2 *8214 - IB Chemistry HL 2*	
Credit(s) 1	This 12th-grade course is year two of a two-year course. This course allows students to develop a wide range of practical skills and to increase facility in the use of mathematics. It provides students with opportunities to develop manipulative skills, design investigations, collect data, analyze results, and evaluate and communicate their findings. The course focuses on the following IB Chemistry topics: equilibrium, acids bases, redox, and organic chemistry. Students in SL will undergo 20 hours of practical work related to the syllabus and 10 hours of independent investigation. Students in the HL course will undergo 30 hours of practical work related to the syllabus and 10 hours of independent investigation.
SHS	
Prerequisite:	Completion of IB Chemistry 1

8311 - IB Physics SL 1	
Credit(s) 1	This 11th-grade course is year one of a two-year course and is taught at the standard level. In IB Physics, students become aware of how scientists work and communicate. There is an emphasis on a practical approach through experimentation as this is at the core of this course. IB physics aims to explain the universe itself, from the very smallest particles to the vast distances between galaxies. Students will develop models to try to understand observations, and it is explained that these themselves can become theories that attempt to explain the observations. The IB Physics course also raises the issue of the impact of physics on society, the moral and ethical dilemmas, and the social, economic and environmental implications of the work of physicists. In year one, students focus on the topics of mechanics, circular motion and gravitation, thermal physics, waves, and electricity and magnetism.
SHS	
Prerequisite:	Completion of Chemistry Honors and Algebra 2 Honors

8311 - IB Physics SL 2	
Credit(s) 1	This 12th-grade course is year two of a two-year course and is taught at the standard level. In year two of IB Physics, students focus on the topics of atomic, nuclear, and particle physics and energy production.
SHS	
Prerequisite:	Completion of IB Physics SL 1

8315 - IB Environmental Science Systems and Societies SL 1 *8317 - IB Environmental Science Systems and Societies HL 1 NEW!*	
Credit(s) 1	This 11th-grade course is year one of a two-year course. This interdisciplinary course focuses on the challenges of 21st-century environmental issues. This course aims to foster an international perspective, awareness of local and global environmental concerns, and an understanding of scientific methods. Students will develop a scientific approach through explorations of environmental systems and will explore sustainability issues within social, cultural, economic, political, and ethical contexts. HL students in this course will explore the course topics through the lens of environmental law, environmental and ecological economics, and environmental ethics. An important aspect of this course is hands-on work in the laboratory and/or out in the field.
SHS	

8364 - IB Biology SL 1 *8366 - IB Biology HL 1*	
Credit(s) 1	This 11th-grade IB Biology 1 Course is year one of a two-year course. Students in this advanced course will learn how to design biological investigations, collect data, analyze results, collaborate with peers, and evaluate and communicate their findings. This course focuses on cell biology, molecular biology, genetics, ecology, evolution and biodiversity, and human physiology, amongst other topics. Students in HL will also study nucleic acids, metabolism, plant biology, and animal physiology. Students in IB Biology will carry out an interdisciplinary and cooperative project focusing on the scientific process.
SHS	
Prerequisite:	Completion of Chemistry Honors and Algebra 2 Honors

8365 - IB Biology SL 2 *8367 - IB Biology HL 2*	
Credit(s) 1	This 12th-grade IB Biology 2 course is year two of a two-year course. Students in this advanced course continue to learn how to design biological investigations, collect data, analyze results, collaborate with peers, and evaluate and communicate their findings. This course focuses on cell biology, molecular biology, genetics, ecology, evolution and biodiversity, and human physiology, amongst other topics. Students in HL will also study
SHS	

	animal physiology. Students in year two also complete assessments that require the demonstration of the knowledge and understanding of, applications of, and evaluation of methodologies and techniques. They also must demonstrate the skills necessary to carry out insightful and ethical investigations. Students will engage in both internal and external IB assessments.
Prerequisite:	Completion of IB Biology 1

6651 - IB Computer Science SL 1 ***6653 - IB Computer Science HL 1***	
Credit(s) 1	This 11th-grade course is year one of a two-year course. Students in this course will learn about how computer scientists work and communicate in the successful development of IT solutions. They will explore a variety of methods and techniques that characterize computer science and use critical thinking skills to identify and resolve complex problems and to identify moral, ethical, social, economic, and environmental implications of using science and technology. In this year one SL course, the focus is on system fundamentals, and computer organization. The HL course also explores networks and programming.
SHS	

6652 - IB Computer Science SL 2 ***6654 - IB Computer Science HL 2***	
Credit(s) 1	This 12th-grade course is year two of a two-year course. This course continues to explore a variety of methods and techniques that characterize computer science and use critical thinking skills to identify and resolve complex problems and to identify moral, ethical, social, economic, and environmental implications of using science and technology. The focus in year two of this SL course is on networks and computational thinking, problem-solving, and programming. The HL course focuses on abstract data structures, resource management, and control, as well as a study extension. Students also participate in the practical application of skills and collaborative projects.
SHS	
Prerequisite:	Completion of IB Computer Science 1

6195 - IB Mathematics: Applications and Interpretations SL 1	
Credit(s) 1	This 11th-grade IB Mathematics: Applications and Interpretations SL 1 course is year one of a two-year course. Students in this course will develop mathematics skills to describe our world and solve practical problems. There is a focus on viewing mathematics from a practical context and on using technology alongside exploring mathematical models. This course emphasizes the application of mathematics and the importance of interpreting results in context.
SHS	
Prerequisite:	Algebra 2

6196 - IB Mathematics: Applications and Interpretations SL 2	
Credit(s) 1	This 12th-grade IB Mathematics: Applications and Interpretations SL 2 course is year two of a two-year course. Students in this course will develop mathematics skills to describe our world and solve practical problems. There is a focus on viewing mathematics from a practical context and harnessing the power of technology alongside exploring mathematical models. This course emphasizes the applied nature of mathematics and the importance of interpreting results in context. Students will engage in both internal and external IB assessments.
SHS	
Prerequisite:	Completion of IB Mathematics: Applications and Interpretations SL 1

6185 - IB Mathematics: Analysis and Approaches SL 1 *6197 - IB Mathematics: Analysis and Approaches HL 1*	
Credit(s) 1	This 11th-grade IB Mathematics: Analysis and Approaches HL 1 course is year one of a two-year course. Students in this advanced course will become fluent in the construction of mathematical arguments and will develop strong skills in mathematical thinking. They will explore real and abstract applications with and without the use of technology. There is initially a strong emphasis on algebraic, graphical, and numerical approaches, with later emphasis on calculus. The SL course covers fewer concepts than the HL version.
SHS	
Prerequisite:	For SL, completion of Algebra 2 Honors; for HL, completion of PreCalculus Honors

6186 - IB Mathematics: Analysis and Approaches SL 2 *6198 - IB Mathematics: Analysis and Approaches HL 2*	
Credit(s) 1	This 12th-grade IB Mathematics: Analysis and Approaches 2 course is year two of a two-year course. Students in this advanced course will become fluent in the construction of mathematical arguments and will develop strong skills in mathematical thinking. They will explore real and abstract applications with and without the use of technology. There is a strong emphasis on calculus and on algebraic, graphical, and numerical approaches. Students will engage in both internal and external IB assessments. The SL course covers fewer concepts than the HL version.
SHS	
Prerequisite:	Completion of IB Mathematics: Analysis and Approaches 1

0201 - IB Visual Arts SL 1 *0203 - IB Visual Arts HL 1*	
Credit(s) 1	This 11th-grade course is year one of a two-year course that focuses on three IB topics: Visual Arts in Context, Visual Arts Methods, and Communicating Visual Arts. Students in the SL course must engage in at least two art-making forms in addition to the Comparative Studies, a Process Portfolio, and an exhibition. The HL course requires students to produce a larger body of resolved works and to demonstrate a deeper consideration of how their resolved works communicate with the potential viewer. Students in HL must engage in at least three art-making forms. In addition to a larger body of work for their process portfolio and exhibition, the HL version of this course requires an additional section of reflection in their Comparative Study.
SHS	

0202 - IB Visual Arts SL 2 *0204 - IB Visual Arts HL 2*	
Credit(s) 1	This 12th-grade course is year two of a two-year course. In year two, SL students focus on their own independent study of their chosen theme, focus, and art concepts in greater depth. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with, and critically reflect upon a wide range of contemporary practices and media to develop their own personal artistic voice. Students in SL must engage in at least two art-making forms. Students will engage in assessments such as comparative studies, a process portfolio, and an exhibition. HL students are encouraged to produce a larger body of resolved works and to demonstrate a deeper consideration of how their resolved works communicate with the potential viewer. Students in HL must engage in at least three art-making forms.
SHS	
Prerequisite:	Completion of IB Visual Arts 1

3009 - IB Theatre SL 1 *3007 - IB Theatre HL 1*	
Credit(s) 1	This 11th-grade course is year one of a two-year course. IB Theatre gives students the opportunity to make theatre as creators, designers, directors, and performers. It emphasizes both work as an individual and as part of an ensemble. Students in this course stage play texts, explore world theatre and collaboratively create original theatre. In the HL course, students also perform theatre theory.
SHS	

3012 - IB Theatre SL 2 *3008 - IB Theatre HL 2*	
Credit(s) 1	This 12th-grade course is year two of a two-year course. IB Theatre continues to give students the opportunity to make theatre as creators, designers, directors, and performers. It emphasizes both work as an individual and as part of an ensemble. Students in this course stage play texts, explore world theatre and collaboratively create original theatre. Students engage in research and collaborative projects in this course. In the HL course, students also perform theatre theory. Students engage in research, and collaborative projects, and perform a solo theatre piece accompanied by a written report.
SHS	
Prerequisite:	Completion of IB Theatre SL1 or HL1

0207 - IB Film SL 1 *0206 - IB Film HL 1*	
Credit(s) 1	This 11th grade course is year one of a two-year course. This course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and practical exercises in film production, students develop critical abilities and appreciation of artistic, cultural, historical, and global perspectives in film. Students experiment with film and multimedia technology, acquiring the skills and creative competencies required to successfully communicate through the language of the medium. They develop an artistic voice and learn how to express personal perspectives through film.
SHS	

3005 - Research Foundations	
Credit(s) 0.5	This semester course is designed to provide IBDP students with experience with research skills. This course will feature topics such as developing research questions, navigating online research databases, critical reading, organizing and evaluating research results, and responsible citation of information. The learning will prepare IBDP students to engage in the various stages of the Extended Essay planning and writing process.
SHS	
Prerequisite:	Admission into Full Diploma Programme

5101 - Theory of Knowledge 1 *5102 - Theory of Knowledge 2*	
Credit(s) 0.5	This is a two-semester requirement of the IB Diploma Programme. Theory of Knowledge (TOK) is a course about critical thinking and inquiring into the process of knowing, rather than about learning a specific body of knowledge. At the center of this section of the course is an introduction to both the ways of knowing (imagination, intuition, emotion, reason, faith, sense perception, memory, and language) and the areas of knowledge (ethics, history, mathematics, the arts, natural sciences, human sciences, religious knowledge
SHS	

	systems, and indigenous knowledge systems). The course will delve into the concepts of personal knowledge versus shared knowledge and the differences between knowledge claims and knowledge questions. The overall aim of TOK is to encourage students to formulate answers to the question "how do you know?" in a variety of contexts and to see the value of that question. TOK 1 is the second semester in 11th grade. TOK 2 is the first semester in 12th grade.
Prerequisite:	Admission into Full Diploma Programme

5103 - Theory of Knowledge 3	
Credit(s) 0.5	This 12th-grade second-semester elective course is designed for IB students who want to continue their study of inquiring into the process of knowing and a variety of areas of knowledge. Students will further consider knowledge concepts and explore knowledge questions that will allow for a deeper contextual understanding.
SHS	
Prerequisite:	Completion of Theory of Knowledge 1 and 2

Clare Albert - Westhill High School

INTERNATIONAL BACCALAUREATE MIDDLE YEARS PROGRAMME Intradistrict located at STAMFORD HIGH SCHOOL

The International Baccalaureate Middle Years Programme (MYP) is a rigorous, two-year comprehensive program offered at Stamford High School during a student's freshman and sophomore years. The MYP is designed to prepare students for success in high school and higher education and incorporates the themes of cultural awareness and international mindedness in the curricula across all subject areas. Global contexts for teaching and learning drive the interdisciplinary approach in this program.

Students are required to take courses in seven subject groups. They must also successfully complete a yearly interdisciplinary project and a personal project during their second year.

Application to the MYP is made during the student's eighth-grade year. For information, go to the Stamford High School website.

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Anari Hill - Stamford High School

COURSE OFFERINGS		
Language and Literature IBMYP English Language & Literature 9 H IBMYP English Language & Literature 10 H IBMYP Seminar **NEW** **Language Acquisition** IBMYP Spanish 9 H IBMYP Spanish 10 H IBMYP Italian 9 H IBMYP Italian 10 H **NEW** **Individuals and Societies** IBMYP US History H IBMYP Civics 1 H IBMYP Human Geography H **NEW** IBMYP Human Geography Advanced **NEW** IBMYP US History Advanced **NEW**	**Sciences** IBMYP Chemistry H IBMYP Integrated Science H **NEW** **Mathematics** IBMYP Math 9 H IBMYP Integrated Math II H IBMYP Integrated Math III H **NEW** IBMYP Precalculus H	**Physical and Health Education** IBMYP Health 1 IBMYP Physical Education 1 IBMYP Health 2 IBMYP Physical Education 2 **MYP Core** IBMYP Design 1 IBMYP Design 2

3006 - IBMYP English Language and Literature 9 H	
Credit(s) 1 **SHS**	This course focused on developing all of the language arts (reading, writing, listening, speaking, viewing, and enacting). The goal of the writing program is the development of fluency, focus, and structure in a variety of genres, including persuasive, narrative, and expository essays, responses to literature, and other modes of writing. This course instruction encourages thoughtful interpretation of various genres including novels, short stories, poetry, informational texts, and other non-literary visual and spoken texts. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course is a 9th-grade MYP requirement.
Prerequisite:	Admission into the IBMYP

3013 - IBMYP English Language and Literature 10 H	
Credit(s) 1 **SHS**	This course focused on developing all of the language arts (reading, writing, listening, speaking, viewing, and enacting). The goal of the writing program is the development of fluency, focus, and structure in a variety of genres, including persuasive, narrative, and expository essays, responses to literature, and other modes of writing. This course instruction encourages thoughtful interpretation of various genres including novels, short stories, poetry, informational texts, and other non-literary visual and spoken texts. This inquiry-based course helps students develop conceptual understanding in global contexts

	and provides opportunities for interdisciplinary learning. This course is a 10th-grade MYP requirement.
Prerequisite:	IBMYP English Language and Literature 9 H

3014 - IBMYP Seminar - NEW	
Credit(s) 0.5	This semester course is designed to provide IBMYP students with instruction intended to support project-based learning. This course will feature topics related to gathering and curating research/evidence, introductory MLA citation rules and practices, goal setting for action planning, and reflecting on process. Special emphasis is placed on developing IB Approaches to Learning. This course will prepare IBMYP students to engage in the various stages of the Personal Project process. This course is a 10th-grade MYP requirement.
SHS	
Prerequisite:	Admission into the IBMYP.

4009 - IBMYP Spanish 9 H	
Credit(s) 1	This course focuses on all four language skills: listening, speaking, reading, and writing, while emphasizing oral communication and cultural connections. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP
SHS	
Prerequisite:	Admission into the IBMYP

4010 - IBMYP Spanish 10 H	
Credit(s) 1	This course focuses on all four language skills: listening, speaking, reading, and writing, while emphasizing oral communication and cultural connections. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP.
SHS	
Prerequisite:	IBMYP Spanish 9 H

4122 - IBMYP Italian 9 H	
Credit(s) 1	This course focuses on all four language skills: listening, speaking, reading, and writing, while emphasizing oral communication and cultural connections. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP.
SHS	
Prerequisite:	Admission into the IBMYP

4123 - IBMYP Italian 10 H NEW!	
Credit(s) 1	This course focuses on all four language skills: listening, speaking, reading, and writing, while emphasizing oral communication and cultural connections. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP.
SHS	
Prerequisite:	IBMYP Italian 9 H

5014 - IBMYP Civics 1 H	
Credit(s) 0.5	This course requires students to explore such questions as: What are the fundamental beliefs of American democracy? What is the balance between the power of the individual and American government? How did conflict and compromise shape the American government? How do the political institutions of the United States interact to meet the needs of its citizens? How have the principles of American democracy evolved over time? How does conflict and compromise shape the American government? This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course is a 9th-grade MYP requirement.
SHS	
Prerequisite:	Admission into the IBMYP

5200 - IBMYP US History H	
Credit(s) 1	This course requires students to cultivate their understanding of U.S. history from c. 1491 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, technology; geography, and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP.
SHS	
Prerequisite:	Admission into the IBMYP

5691- IBMYP Human Geography H NEW!	
Credit(s) 1	This course explores how humans have understood, used, and changed the surface of Earth. Students will use the tools and thinking processes of geographers to examine patterns of human population, migration, and land use. This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the earth's surface. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP.
SHS	
Prerequisite:	Admission into the IBMYP

5690 - IBMYP Human Geography Advanced NEW!	
Credit(s) 1	This advanced course introduces students to the systematic study of patterns and processes that have shaped the ways in which humans understand, use, and alter the earth's surface. Students use spatial concepts and landscape analysis to examine human social organization and its environmental consequences and also learn about the methods and tools geographers use in their science and practice. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning while preparing them to take the Advanced Placement examination in May. Students seeking to enroll in this advanced class must have a counselor recommendation and an A- or better in both social studies and English Language Arts on or before March 31 of their 8th-grade year. This course can be taken as part of the MYP.
SHS	
Prerequisite:	Admission into the IBMYP

5201- IBMYP US History Advanced NEW!	
Credit(s) 1	This advanced course provides students with the analytical skills and factual knowledge necessary to critically address problems and materials in U.S. history. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning while preparing them to take the Advanced Placement examination in May. Students seeking to enroll in this advanced class must have the recommendation of both the 9th-grade IBMYP Individuals and Societies and IBMYP Language and Literature teachers. This course can be taken as part of the MYP.
SHS	
Prerequisite:	Admission into the IBMYP

Alina Babbi - Stamford High School

8215 - IBMYP Chemistry H	
Credit(s) 1	This course explores chemical principles in a comprehensive approach. The course examines: matter and energy, atomic structure, periodicity, ionic and covalent compounds, chemical equations, stoichiometry, theory of gases, solutions and chemical equilibrium, acids and bases, reaction rates, electrochemistry, and nuclear chemistry. Students understanding of chemistry is fostered through laboratory investigations, problem-solving, and critical thinking activities. Laboratory investigations are an integral part of this course. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course is a 10th-grade MYP requirement.
SHS	
Prerequisite:	IBMYP Biology H

8373- IBMYP Integrated Science H NEW!	
Credit(s) 1	This comprehensive course is designed to further their student's understanding of scientific principles while equipping them for success in their academic and professional lives. Topics covered include measurement conversion, model creation, use of scientific methods, interpretation of atoms, identification of the properties of common compounds, the impact of force on linear motion, and the study of various physical phenomena and forms of energy. This inquiry-based, NGSS-aligned course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning while preparing students to succeed in future science pathways. This course is a 9th-grade MYP requirement.
SHS	
Prerequisite:	Admission into the IBMYP

6218 - IBMYP Math 9 H	
Credit(s) 1	This course blends topics from Integrated Math I and topics from Integrated Math II to provide a pathway of skills that lead to success in future advanced math courses. Emphasis is on algebraic, geometric, and graphic representation of mathematical topics through critical thinking activities as well as the use of various forms of technology. Students focus on problem-solving and real-life applications. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP.
SHS	
Prerequisite:	Admission into the IBMYP

6216- IBMYP Integrated Math II H	
Credit(s) 1	This comprehensive course is designed to further students' understanding of mathematical concepts while fostering critical thinking, problem-solving skills, and mathematical reasoning. This course is the second installment in the integrated math series, seamlessly blending algebraic, geometric, and statistical concepts to provide students with a well-rounded and interconnected approach to mathematics. The course offers challenging and enriching experiences for students, preparing them for advanced coursework and providing a solid foundation for future studies in mathematics and related fields. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP.
SHS	
Prerequisite:	Integrated Math I

6217 - IBMYP Integrated Math III H NEW!	
Credit(s) 1	This course focuses on the study of functions, starting with quadratic functions and progressing through polynomial, radical, exponential, logarithmic, rational, and trigonometric functions. Students also explore sampling methods, experiments, and statistical inference. Emphasis is placed on critical thinking, real-world problem solving, and integrating technology, preparing students for success in advanced math courses and related fields. The course offers challenging and enriching experiences for IBMYP students, preparing them for advanced coursework and providing a solid foundation for future studies in mathematics and related fields. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP.
SHS	
Prerequisite:	IBMYP IM 2 or IBMYP Math 9

6214 - IBMYP Precalculus H	
Credit(s) 1	This course examines the properties of functions and modeling, radical exponents and functions, exponential and logarithmic functions, trigonometric analysis, polar coordinates, and complex numbers. Emphasis is on algebraic, geometric, and graphic representation of these topics through critical thinking activities as well as the use of computers and graphic calculator technology. Students focus on problem-solving and real-life applications.This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course can be taken as part of the MYP.
SHS	
Prerequisite	IBMYP Algebra 2 H or equivalent

9906 - IBMYP Health 1	
Credit(s) 0.5	This course examines the relationship that exists among physical, emotional, and social health. Students explore the decision-making process and learn how their decisions contribute to their personal health and lifelong wellness. Topics include emotional health, nutrition, fitness, substance use and abuse, sexual health, violence prevention, and responding to emergencies. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course is a 9th-grade MYP requirement.
SHS	
Prerequisite:	Admission into the IBMYP

9321 - IBMYP Health 2	
Credit(s) 0.5	This course continues to examine the relationship that exists among physical, emotional, and social health. Students explore the decision-making process and learn how their decisions contribute to their personal health and lifelong wellness. Topics include emotional health, nutrition, fitness, substance use and abuse, sexual health, violence prevention, and responding to emergencies. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course is a 10th-grade MYP requirement.
SHS	
Prerequisite	IBMYP Health 1

9320 - IBMYP Physical Education 1	
Credit(s) 0.5	This course engages students by encouraging lifelong fitness. Activities in this course include a wide array of sports and fitness activities. Students develop the skills and fitness level necessary to participate in the Connecticut Physical Fitness Test in their sophomore year. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course is a 9th-grade MYP requirement.
SHS	
Prerequisite:	Admission into the IBMYP

9322 - IBMYP Physical Education 2	
Credit(s) 0.5	This course engages students by encouraging lifelong fitness. Activities in this course include a wide array of sports and fitness activities. Students develop the skills and fitness level necessary to participate in the Connecticut Physical Fitness Test in their sophomore year. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course is a 10th-grade MYP requirement.
SHS	
Prerequisite	IBMYP Physical Education 1

9320 - IBMYP Design 1	
Credit(s) 0.5	MYP design challenges students to apply practical and creative-thinking skills to solve design problems; encourages students to explore the role of design in historical and contemporary contexts; and raises students' awareness of their responsibilities when making design decisions and taking action. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course is a 9th-grade MYP requirement.
SHS	
Prerequisite:	Admission into the IBMYP

0862- IBMYP Design 2	
Credit(s) 0.5	MYP design continues to challenge students to apply practical and creative-thinking skills to solve design problems; encourages students to explore the role of design in historical and contemporary contexts; and raises students' awareness of their responsibilities when making design decisions and taking action. This inquiry-based course helps students develop conceptual understanding in global contexts and provides opportunities for interdisciplinary learning. This course is a 10th-grade MYP requirement
SHS	
Prerequisite	IBMYP Design 1

Joshua Arouni - Stamford High School

JUNIOR RESERVE OFFICERS' TRAINING CORPS
Intradistrict located at WESTHILL HIGH SCHOOL

The Junior Reserve Officers' Training Corps, or JROTC, located at Westhill High School, is an elective program for women and men. As members of this program, students are exposed to a variety of courses and workshops that prepare them for leadership positions in their future careers. There are four levels of courses, each carrying 5 credits. A student may earn 5 credits a year. The courses cover short segments on a variety of topics, such as leadership, citizenship, human relations, U.S. military history, personal hygiene, staff functions and procedures, first aid, military map reading, techniques of oral communications, orienteering, drill, and ceremony.

Students participating will:

- Receive leadership training and encouragement
- Earn experience and academic credit which may result in advanced standing if they pursue a career in the military
- Interact with career service personnel who serve as the instructors.

There are no special costs associated with this program. Costs for course materials, uniforms, supplies, and equipment are subsidized by the military or the school.

****All courses will run next year based upon student requests. We may not run the course if a course is not at <u>80%</u> capacity.**

925 - Leadership, Education, and Training 1 (LET 1)	
Credit(s) 1	LET 1 is a course of instruction that focuses on the following subjects: The Spirit of American Citizenship and Army JROTC, Techniques of Communications (note-taking, study habits, test-taking, and oral presentation), leadership, physical fitness, first aid, map reading, American military history, your American citizenship, customs and courtesies, contemporary issues, and drill and ceremonies. This is the first course in the four-year sequence of study in JROTC.
WHS	

926 - Leadership, Education, and Training 2 (LET 2)	
Credit(s) 1	LET 2 is a continuation of the studies begun in LET 1. In addition, students develop their abilities to live and work cooperatively with others, mental management skills, the roles and accomplishments of the army, and technological advancements.
WHS	

927 - Leadership, Education, and Training 3 (LET 3)	
Credit(s) 1	LET 3 is a course of instruction in the following subjects: Practicum of oral communications, written communications in the Army format, leadership, physical fitness, first aid, American military history, and your American citizenship, the role of the U.S. Armed Forces, contemporary issues, leadership laboratory, and technology awareness.
WHS	

928 - Leadership, Education, and Training 4 (LET 4)	
Credit(s) 1	LET 4 is the culmination of the previous three years of training. Primary emphasis of the course is the application of the skills learned in LET 1-3, focusing on leadership duties and responsibilities within the cadet battalion. LET 4 Cadets serve as instructors for LET 1-3 cadets. Classroom instruction also includes citizenship, leadership development, physical fitness, communication, history, job searching, and drug prevention/awareness.
WHS	

Brooklyn Jacobs - Stamford High School

Nikael Jimanez - Stamford High School

Melissa Berganza - Westhill High School

Sabrina Zuccarelli - Westhill High School

EARLY COLLEGE STUDIES
Intradistrict located at STAMFORD HIGH SCHOOL

The Early College Studies Program at Stamford High School allows students to earn their high school diploma as well as an Associate's Degree in either Software Engineering, Mobile Programming, or Web Development from CT State Community College Norwalk. Note: Application to and acceptance into this program occurs in the winter and spring of a students' eighth-grade year.

Students benefit from mentoring by professionals, extra help through tutoring, and workplace experiences. After completing core requirements for high school and testing ready for college English and Math, students have the opportunity to take courses through CT State Norwalk such as Introduction to Programming, Web Development, Database Development, XML for WWW, and others.

In addition to their computer science coursework, students also take CT State College & Career Success as well as Workplace Learning II and III. Students engage in a problem-based curriculum that requires them to work individually and in teams to create products and solutions for real-world local and global issues.

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

COURSE OFFERINGS

Workplace Learning II
Workplace Learning III
Introduction to Programming (ECS)

CT State Norwalk:
Web Development and Design I
Introduction to Programming
Database Development I
Two-Dimensional Design
Graphic Design I
College & Career Success CCS 1001 **NEW**

9702 - Workplace Learning II

Credit(s) 0.5	Typically taken by sophomores, this course is the second in a series of required workplace learning courses for students in the Early College Studies program. In this course, students focus on the essential skills of motivation, leadership, self-management, and analytical thinking.
SHS	

9705 - Workplace Learning III	
Credit(s) 1	Typically taken by seniors, this is the last of the three required Workplace Learning courses. Students now demonstrate their ability to work both independently and in teams. Students will work through a design project from conception to completion.
SHS	
Prerequisite:	Workplace Learning II & CT State College & Career Success CCS 1001

2652 - CT State Norwalk Web Development and Design I	
Credit(s) 0.5	This course provides entry into the fast-moving website development industry. With its heavy hands-on mode of delivery, students will learn XHTML, Cascading Style Sheets, and be exposed to JavaScript. Adhering to standards, specifically from the World Wide Web Consortium (W3C) and the European Computer Manufacturers Association (ECMA), will play a dominant role in the creation of web pages that are both platform and browser-independent. Students earn 4 college credits (CSC 1271) on their CT State Norwalk transcript upon successful completion of this course.
SHS	
Prerequisite:	Eligibility for CT State ENG 1010

2650 - CT State Norwalk Introduction to Programming	
Credit(s) 0.5	This course covers Fundamentals of programming and program development techniques. Topics include data types, functions, storage class, selection, repetition, pointers, arrays, and file processing. Programming laboratory projects in a closed laboratory environment are supervised by the instructor. Students earn 4 college credits (CSC 1201) on their CT State Norwalk transcript upon successful completion of this course.
SHS	
Prerequisite:	Eligibility for CT State MATH 1600 or higher

2651 - CT State Norwalk Database Development I	
Credit(s) 0.5	Relational database development including data modeling, database design, and database implementation. The student learns to create and alter tables, and retrieve, insert, update, and delete data using a fourth-generation language (ORACLE) in a supervised laboratory setting. Uses of database technology, understanding DBMS and RDBMS concepts, normalizing designs, transforming the logical design into physical databases, embedded SQL, and the role of the DBA are also covered. Students earn 3 college credits on their CT State Norwalk transcript upon successful completion of this course. Students earn 4 college credits (CSC 1231) on their CT State Norwalk transcript upon successful completion of this course.
SHS	
Prerequisite:	Eligibility for CT State ENG 1010

0464 - CT State Norwalk Two-Dimensional Design	
Credit(s) 0.5	This introductory course focuses on the basic elements and principles of design such as line, texture, space, balance, unity, and scale. Students earn 3 college credits (ART 1210) on their CT State Norwalk transcript upon successful completion of this course.
SHS	

0463 - CT State Norwalk Graphic Design 1	
Credit(s) 0.5	An introductory course focusing on the fundamental nature, skills, and principles of graphic design. Students will learn about composition, communication, and technology. Classes consist of lectures, demonstrations, applied practice, and critiques. Students earn 3 college credits (GRA 1501) on their CT State Norwalk transcript upon successful completion of this course.
SHS	

2654 - Introduction to Programming (ECS)	
Credit(s) 0.5	Introduction to Programming (ECS) is an introductory course to computer programming that focuses on fostering a sense of computational thinking. This includes some mathematical concepts including logic as well as algorithmic concepts including conditional statements, looping, and some elementary data structures such as arrays and strings.
SHS	

2095 - CT State Norwalk College & Career Success - CCS 1001 NEW!	
Credit(s) 0.5	This course prepares students for success in college and beyond. Students will develop self-awareness and an understanding of how to navigate college, value diversity, develop skills and strategies for success, and explore career options. Essential academic skills including information literacy, critical thinking, and effective communication will be addressed. By the end of this course, students will create a personalized academic and career success plan.
SHS	

Sean Daral - Stamford High School

This honors-level course is designed for sophomores, juniors, and seniors who are interested in exploring a career in teaching at any grade level from early childhood through high school. Class discussions and assignments will focus on the profession of teaching – its history, purposes, issues, ethics, laws, roles, and qualifications. Students will explore different learning styles, learning theories, and methods of instruction. Students will participate in guided observations and participate in internship-field experiences outside of the classroom. Students will have access to unique benefits such as networking with Educators across the Stamford district, membership in the school's Rising Educators Club, attending national Educators Rising national conferences, and being part of the Educators Rising membership network of peers across the country.

Educators Rising students who achieve teacher certification will be guaranteed an interview at the minimum for teaching positions that are available in their certification for in future years.

EDUCATORS RISING
Intradistrict located at STAMFORD HIGH SCHOOL

EDUCATORS RISING
serving our community

Developed by teachers for teachers, with the generous support of the National Education Association, the American Federation of Teachers, and the National Board for Professional Teaching Standards, PDK International's Educators Rising program emphasizes fundamental professional practices that are critical for the next generation of aspiring teachers to develop and take their first steps on the path to realizing their full potential.

The program, which includes curriculum, teacher training, and "Beginning to Teach" micro-credentials for students, is a centerpiece of a "grow your own" teacher recruitment strategy in a state where 60 percent of teachers work within 20 miles of where they attended high school. In-service teachers who aim to mentor and inspire high school students to teach in their own communities are critical to the program's success.

Students interested in the Educators Rising intradistrict program located at Stamford High School can begin to participate during their sophomore year by joining the Educators Rising after-school club. Starting their junior year, students can begin the two-semester sequence of Honors Rising Educators courses. Educators Rising is partnering with Rogers School Community Center Organization (ROSCCO) to give students the opportunity for part-time afterschool employment.

½ credit courses:

- ❑ Honors Rising Educators 1
- ❑ Honors Rising Educators 2

0390 - Honors Rising Educators I (SHS) *0391 - Honors Rising Educators II (SHS)*	
Credit(s) 0.5	This honors-level course is designed for sophomores, juniors, and seniors who are interested in exploring a career in teaching at any grade level from early childhood through high school. Class discussions and assignments will focus on the profession of teaching – its history, purposes, issues, ethics, laws, roles, and qualifications. Students will explore different learning styles, learning theories, and methods of instruction. Students will participate in guided observations and participate in internship-field experiences outside of the classroom. Students will have access to unique benefits such as networking with Educators across the Stamford district, membership in the school's Rising Educators Club, attending national Educators Rising national conferences, and being part of the Educators Rising membership network of peers across the country.
SHS	

MULTILINGUAL LEARNER PROGRAMS

Students identified as Multilingual Learners (ML) at the high school level may have a choice of English as a Second Language (ESL), Sheltered, or Bilingual courses which assist them in acquiring listening, speaking, reading, and writing skills while learning content area material. The Multilingual Learner Programs are designed to provide students with instruction in speaking, listening, reading, and writing in the English language.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL (English as a Second Language) courses are offered to English Learners at the high school level. The ESL Program utilizes national standards in the development of English language skills with an intense focus on listening, speaking, reading, and writing. Students engage in meaningful and authentic use of the target language of English with certified TESOL teachers. Students are placed using a combination of language level and academic history. In addition, there are ESL course offerings focusing on literacy skills and academic language to further specific English language domains necessary for academic success.

SHELTERED PROGRAM

Sheltered courses are offered at both Stamford High School and Westhill High School to Multilingual Learners (MLs) in grades 9-12. The Sheltered Program was designed by CT State mandate for new arrival speakers of other languages. Sheltered instruction is an approach designed to make academic content in the core subject areas more accessible for ML students. To achieve success, ML students must master strong English language proficiency in the core content areas to include: vocabulary, grammar, and academic language. The theoretical structure of the Sheltered model is that language acquisition is enhanced through meaningful use and interaction where language and content objectives are systematically woven into the instruction. The curriculum for Sheltered English, Health, Math, Science, and Social Studies mirrors the course of study in the mainstream education program, with instruction delivered in simple-to-understand English to make the content more comprehensible for Multilingual Learners.

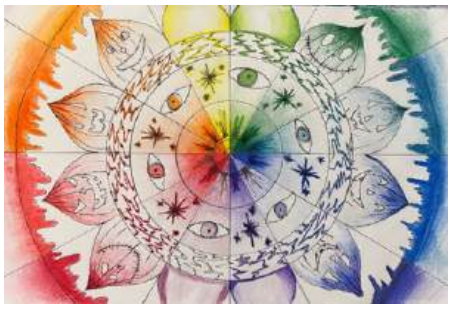
NEW ARRIVAL CENTER

The New Arrival Center (NAC) is a program of support for non-English speaking students. The program is delivered in English by certified TESOL teachers (Teacher of English to Speakers of Other Languages). Identified Multilingual Learners (MLs) who arrive as freshmen and are both new to the country and to the language. The main objectives of the newcomer program are to help new arrival ML students acquire beginning English skills, guide the students' acculturation into the school system within the United States, and provide instruction in core academic content areas.

BILINGUAL PROGRAM

Bilingual courses are offered to Spanish, Haitian-Creole, and Ukrainian-speaking students who meet state and federal guidelines for eligibility into the Bilingual Program. In accordance with Section 10-17a-j of the Connecticut General Statutes, students who have 30 or more months to graduate and have not exhausted 30 months in a bilingual program qualify for the Bilingual Program. The Spanish Bilingual Program is located at Westhill High School. The Ukrainian and the Haitian-Creole Bilingual Programs are located at Stamford High School. All bilingual programs are offered for up to 30 months to eligible Spanish, Haitian-Creole, and Ukrainian-speaking students. The curriculum for Spanish Bilingual Health, Math, Science, and Social Studies courses mirrors the course of study in the mainstream education program, with instruction delivered in English with bilingual support. The Haitian-Creole and Ukrainian Bilingual programs are structured to support the acquisition of content vocabulary and language.

An eligible student may spend up to an additional thirty months in a program of bilingual education if the Board of Education requests an extension from the State Department of Education which makes a determination whether an extension for such student is necessary.



Alini Mitchell - Stamford High School

Aryan Pandalali - Westhill High School

ENGLISH AS A SECOND LANGUAGE

COURSES

English as a Second Language (ESL A) with Foundations Literacy
English as a Second Language (ESL B)
English as a Second Language (ESL C)
English as a Second Language (ESL D)
ML Reading Strategies
Writing for College and Career
Cultural Foundations

3381 English As A Second Language A (ESL A) with Foundations Literacy

Credit(s) 2		This class is a combined course integrating acquisition of and improving on all four skill areas of English: listening, speaking, reading and writing. ESL A utilizes a multifaceted approach to the learning of oral and written English. English usage is stressed through vocabulary and grammatical forms used in context. Students engage with a diverse range of literary and informational texts to which they respond in a variety of oral and written forms. In Foundations Literacy, students will master fundamental reading skills. They will learn and practice higher order reading skills, expand vocabulary and increase reading efficiency as they interact with level-appropriate text and develop their communication skills. This combined approach builds a solid foundation for success in learning English.
SHS	**WHS**	

3382 - English As A Second Language A (ESL A)

Credit(s) 1		This class is designed to help beginner ML students develop their proficiency in all four skill areas of English: listening, speaking, reading and writing. ESL A utilizes a multifaceted approach to the learning of oral and written English. English usage is stressed through vocabulary and grammatical forms used in context. Students engage with a diverse range of literary and informational texts to which they respond in a variety of oral and written forms.
SHS	**WHS**	

3450 - English As A Second Language B (ESL B)

Credit(s) 1.0		This course is being offered as a one-semester course. This course is designed for students at the intermediate level of learning the English language. Students focus intensively on listening, speaking, reading, and writing skills. Students read advanced texts and write using multiple genres.
SHS	**WHS**	
Prerequisite:		ESL-A or skilled proficiency

3460 - English As A Second Language C (ESL C)	
Credit(s) 1.0	This course is being offered as a one-semester course. This course emphasizes intensive and extensive reading and writing instruction in English. Students read full-length novels, short stories, and newspaper and magazine articles that deal with current events. Students are responsible for oral presentations and papers that incorporate the language concepts learned through their readings. Passing a proficiency test is needed to progress to ESL Adv.
SHS **WHS**	
Prerequisite:	ESL-B or skilled proficiency

3465 - English As A Second Language D (ESL D)	
Credit(s) 1.0	This course is designed for students with a LAS level 3 or more who need additional support in English language learning, reading skills, and reading strategies. Students will focus on building English language proficiency and reading skills through speaking, listening, reading, and writing activities. Course enrollment requires ML Department Head approval.
SHS **WHS**	
Prerequisite:	Requires permission

8651 - ML Reading Strategies	
Credit(s) 1.0	This course is designed for ML students in ESL B or ESL C who need to increase skills in reading comprehension strategies, vocabulary development and grammar. Students will focus on building proficiency through reading, speaking, listening and writing.
SHS **WHS**	
Prerequisite:	

4305 - Cultural Foundations	
Credit 1.0	This course is designed for new arrival students with limited English proficiency and/or students with a LAS level 1. Students participating in Cultural Foundations will gain exposure to Social Studies themes such as US Geography, American History, Citizenship, and Civics. This class has a thematic based-approach to learning basic reading, oral, and written English. The curriculum emphasizes vocabulary and reading in context. Students will read a variety of texts including informational, historical, and nonfiction passages in order to analyze, discuss, and respond orally, as well as in writing. In addition, they will use technology to enhance learning and will interact with their teachers and peers on a daily basis.
SHS **WHS**	

3592 - Writing For College And Career	
Credit(s) 0.5	Classes prepare students to write academically for research papers and/or technical reports. Academic writing, vocabulary selection, and syntax are developed in order to write research papers and essays. These classes emphasize researching (primary and secondary sources), organizing (material, thoughts, and arguments), and writing in a persuasive or technical style.
SHS **WHS**	
Prerequisite:	Must be a current ML student and has the approval of the department head.

Yukta Das - Stamford High School

SHELTERED PROGRAM

Sheltered course descriptions are available within each content area: English, Health, Math, Science, Social Studies, and Career and Technical Education-Business.

NEW ARRIVAL CENTER
Stamford High School

COURSES

English as a Second Language A (ESL A)
Foundations Literacy
Foundations Math
Foundations Science
Cultural Foundations

3381 - English As A Second Language A (ESL A) & Foundations Literacy	
Credit(s) 2	This class is a combined course integrating acquisition of and improving on all four skill areas of English: listening, speaking, reading and writing. ESL A utilizes a multifaceted approach to the learning of oral and written English. English usage is stressed through vocabulary and grammatical forms used in context. Students engage with a diverse range
SHS **WHS**	

		of literary and informational texts to which they respond in a variety of oral and written forms. In Foundations Literacy, students will master fundamental reading skills. They will learn and practice higher-order reading skills, expand vocabulary, and increase reading efficiency as they interact with level-appropriate text and develop their communication skills. This combined approach builds a solid foundation for success in learning English

4305 - Cultural Foundations		
Credit 1.0		This course is designed for new arrival students with limited English proficiency and/or students with a LAS Links score of 1. Students participating in Cultural Foundations will gain exposure to Social Studies themes such as US Geography, American History, Citizenship, and Civics. This class has a thematic based-approach to learning basic reading, oral, and written English. The curriculum emphasizes vocabulary and reading in context. Students will read a variety of texts including informational, historical, and nonfiction passages in order to analyze, discuss, and respond orally, as well as in writing. In addition, they will use technology to enhance learning and will interact with their teachers and peers on a daily basis.
SHS	**WHS**	

3485 - Foundations Literacy		
Credit 1.0		This course is designed for new arrival students and students who are identified as Students with Limited or Interrupted Formal Education (SLIFE) and have a LAS Links Placement Score of 1, OR have been recommended by a teacher. This course provides direct instruction in early literacy skills and strategies in English.
SHS	**WHS**	

6182 - Foundations Math		
Credit 1.0		This course provides academic support for ML students who need to develop a strong number sense by seeing connections among operations and numbers, making reasonable estimates, and spotting unreasonable answers. Instruction focuses on the use of hands-on activities, manipulatives, and real-life applications. Students develop an understanding of proportional relations in connection to linear functions.
SHS	**WHS**	

8100 - Foundations Science		
Credit 1.0		This course provides academic support for new-arrival ML students who need to develop a strong foundational background on the principles of several scientific specialties: earth science, physical science, biology, chemistry, and physics. General science concepts are explored as are the principles underlying the scientific method and experimentation techniques.
SHS	**WHS**	

BILINGUAL PROGRAM

WHS: Spanish Bilingual
SHS: Haitian/Creole & Ukrainian Bilingual

COURSES

First-Year Bilingual Seminar
Bilingual Health 1
Bilingual Health 2
Bilingual Foundational Mathematics
Bilingual Integrated Mathematics I
Bilingual Integrated Mathematics II
Bilingual Integrated Mathematics III
Bilingual Physics of Physical Sciences(0.5 crédito)
Bilingual Physical Sciences Chemistry (0.5 crédito)
Bilingual Biology
Bilingual World History
Bilingual United States History
Bilingual Civics

9209 - First-Year Bilingual Seminar- Spanish
9209 - First-Year Bilingual Seminar- Haitian/Creole
9209 - First-Year Bilingual Seminar- Ukrainian

0.5 credit	This course examines the properties of real numbers, linear and quadratic equations, polynomial expressions and functions, inequalities, exponential expressions and functions, and systems of equations. Emphasis is placed on algebraic, geometric, and graphical representations of these topics through critical thinking activities, as well as the use of computer and graphing calculator technology. Students focus on problem-solving and authentic applications.
WHS	

9890 - Bilingual Health 1 - Spanish
9890 - Bilingual Health 1 - Haitian/Creole
9890 - Bilingual Health 1 - Ukrainian

0.5 credit	This course examines the relationship between physical, emotional, and social health. Students will explore the decision-making process and learn how their choices contribute to maintaining personal health. Major topics include, but are not limited to, emotional health, nutrition, wellness, substance use and abuse, sexual health, violence prevention, and emergency response.
WHS	

9880 - Bilingual Health 2 - Spanish *9880 - Bilingual Health 2 - Haitian/Creole* *9880 - Bilingual Health 2 - Ukrainian*	
0.5 credit **WHS**	Health 2 will focus on the following key standards and skills - Decision Making, Goal Setting, Self-Management, and Advocacy as they relate to various health core content.

6181 - Bilingual Foundational Mathematics 1 - Spanish *6181 - Bilingual Foundational Mathematics 1 - Haitian/Creole* *6181 - Bilingual Foundational Mathematics 1 - Ukrainian*	
0.5 credit **WHS**	This course provides academic support for newcomer English learners who need to develop a strong number sense by seeing relationships between operations and numbers, making reasonable estimates, and spotting unreasonable answers. Instruction focuses on the use of hands-on activities, manipulatives, and real-life applications. Students develop an understanding of ratio relationships in relation to linear functions.

6218 - Bilingual Integrated Mathematics I with Math Lab - Spanish *6218 - Bilingual Integrated Mathematics I with Math Lab - Haitian/Creole* *6218 - Bilingual Integrated Mathematics I with Math Lab - Ukrainian*	
2 credit **WHS**	This course combines the study of Integrated Math I topics—including real numbers, linear equations, systems of equations, transformations, and more—with targeted support to ensure student success. Through problem-solving, real-world applications, and the use of technology, students develop both conceptual understanding and procedural fluency. The Math Lab component offers additional support tailored to ninth graders, reinforcing their understanding and skills. This combined approach builds a solid foundation for success in Integrated Math I and future math courses.

6106 - Bilingual Integrated Mathematics II - Spanish *6106 - Bilingual Integrated Mathematics II - Haitian/Creole* *6106 - Bilingual Integrated Mathematics II - Ukrainian*	
1 credit **WHS**	This course examines geometric aspects of plane and solid figures such as the properties of lines, angles, triangles, quadrilaterals, and circles, including length, area, surface area, and volume of solids as well as inductive reasoning and proof. Emphasis is placed on the algebraic, geometric, and graphical representation of these topics through activities that use critical thinking in addition to the use of computer technology and the graphing calculator. Students focus throughout the year on problem-solving and its application to real life.
Prerequisite:	Integrated Mathematics I

6212 - Bilingual Integrated Mathematics III - Spanish *6212 - Bilingual Integrated Mathematics III - Haitian/Creole* *6212 - Bilingual Integrated Mathematics III - Ukrainian*	
1 credit **SHS** **WHS**	This course, aligned with Common Core standards, builds upon the foundational knowledge students gain in earlier Integrated Math courses. This course focuses on the study of functions, starting with quadratic functions and progressing through polynomial, radical, exponential, logarithmic, rational, and trigonometric functions. Students also explore sampling methods, experiments, and statistical inference. Emphasis is placed on critical thinking, real-world problem solving, and integrating technology, preparing students for success in advanced math courses and related fields.
Prerequisite:	Integrated Mathematics II

8451 - Bilingual Physics Of Physical Sciences- Spanish *8451 - Bilingual Physics Of Physical Sciences- Haitian/Creole* *8451 - Bilingual Physics Of Physical Sciences- Ukrainian*	
0.5 credit **SHS** **WHS**	This course explores the basic principles of physics in a comprehensive approach. Students learn through an inquiry-based approach that is intended to stimulate critical thinking, research, and decision-making skills as well as collaboration and basic research skills. Laboratory investigations are an integral part of this course. As a result of this course, students explore and explain basic physics concepts and their related applications.

8452 - Bilingual Physical Science Chemistry - Spanish *8452 - Bilingual Physical Science Chemistry - Haitian/Creole* *8452 - Bilingual Physical Science Chemistry - Ukrainian*	
0.5 credit	This course explores the basic principles of chemistry in a comprehensive approach. Students learn through an inquiry-based approach that is intended to stimulate critical thinking, investigative, and decision-making skills as well as collaboration and basic research skills. Laboratory investigations are an integral part of this course. As a result of this course, students explore and explain basic chemical concepts and their related applications.
SHS **WHS**	

8090 - Bilingual Biology - Spanish *8090 - Bilingual Biology - Haitian/Creole* *8090 - Bilingual Biology - Ukrainian*	
1 credit	This course explores biological principles. The course examines ecology, cell biology, genetics, evolution, microorganisms, plants, vertebrates and invertebrates. Student understanding of biology is fostered with laboratory investigations, problem solving, and activities that promote critical thinking. As a result of this course, students will explore and explain biology concepts and related applications.
SHS **WHS**	

5180 - Bilingual World History - Spanish *5180 - Bilingual World History - Haitian/Creole* *5180 - Bilingual World History - Ukrainian*	
0.5 credit	This course focuses on world history from World War I to the present. As a continuation of Social Studies 9, modern world history examines the interdependence and interrelatedness of the world, enabling students to evaluate and analyze events from multiple perspectives.
SHS **WHS**	

Yana Kostiv - Westhill High School

5280 - Bilingual United States History - Spanish

5280 - Bilingual United States History - Haitian/Creole *5280 - Bilingual United States History - Ukrainian*	
1 credit	Students will explore what American Identity is. Students will explore such questions as: What is American Identity and how does it differ for various groups? What are the social, economic, cultural, and political barriers and achievements faced by various groups throughout United States history? Does America provide equal political, economic, and social opportunities for all? How does a nation become a World Power? How did global competition lead to conflict, cooperation, and innovation? To what extent did democratic ideals influence America's response to events at home and abroad? What are the consequences of war, and how do these vary based on an individual or cultural perspective? How does a nation become a Superpower? What forces shaped US foreign policy after World War 2? How did the Cold War shape modern American society? What were the economic, political, and social ramifications of 9/11?
SHS / **WHS**	

5740 - Bilingual Civics - Spanish *5740 - Bilingual Civics - Haitian/Creole* *5740 - Bilingual Civics - Ukrainian*	
.5 credit	Civics focuses on the values and principles of American democracy and the structure of federal, state, and local governments. The course examines the relationship between the United States and other nations in foreign affairs and includes a study of the press, political parties, minority groups, and special interest groups to prepare students to assess their role and responsibility in the American political system.
SHS / **WHS**	

3496 - Bilingual Academic Support - Haitian /Creole *3497- Bilingual Academic Support - Ukrainian*	
0.5 credit	This course emphasizes the development of cross-disciplinary, high-frequency vocabulary used in academic courses. Using science, math, and social studies texts, beginning. English learners (EL's) will acquire academic language and study skills needed in the respective areas. ***This course is reserved for students if BIL Haitian/Creole and/or Ukrainian is not available.
SHS / **WHS**	

3592 - Writing For College And Career

Credit(s) 0.5		Classes prepare students to write academically for research papers and/or technical reports. Academic writing, vocabulary selection, and syntax are developed in order to write research papers and essays. These classes emphasize researching (primary and secondary sources), organizing (material, thoughts, and arguments), and writing in a persuasive or technical style.
SHS	**WHS**	
Prerequisite:		Must be a current ML student who has completed the sequence of EL classes and has the approval of the department head

Nubia Vinson - Stamford High School

Nyasia Brown - Stamford High School

Alethea Davis- Stamford High School

ACADEMIC SUPPORT

Stamford Public Schools provide a wide range of services and supports. Differentiated instruction and inclusive best practices are implemented to address individual learning styles and needs.

Adilene Pulido - Westhill High School

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Course Offerings

Academic Support	Specialized Reading	Learning Through Music & Art (SHS)
Transition Skills (WHS)	SEL Life Skills (WHS)	Literacy Lab (SHS)
Family Foods (WHS)	Daily Living Skills	Reading
Math Applications	Academic Intervention	Functional Academics (WHS)
Leisure Skills (WHS)	Mathematics	Art Partners (SHS) NEW
Employability Skills (WHS)	Academic Intervention Literacy	Music Create (SHS) NEW

9741 - Academic Support
Administrative approval required

Credit(s) 1		
SHS	WHS	This class is designed to be a supplement to required academic courses such as English, Math, Science, and Social Studies. This course will provide instructional time and subject-specific learning strategies for students. Academic support classes may also provide opportunities for students to work on transition skills, homework, and supplemental assignments to practice their academic skills. ***Placement in this course is based on the recommendation of The Planning and Placement Team.***

9796 - Transition Skills *Administrative approval required*	
Credit(s) 1	The course is designed to give upper-grade students the opportunity to investigate post-secondary options. Students will complete tasks designed to help the student understand the opportunities available to them. Students will explore support services available to them through state agencies as well as post-secondary programs. ***Placement in this course is based on the recommendation of The Planning and Placement Team.***
WHS	

0658 - Family Foods *Administrative approval required*	
Credit(s) 1	This course is designed to prepare students to identify, use and care for kitchen tools, and understand safety and sanitation in the kitchen. Students will also learn food preparation terminology needed to follow a recipe. Hands-on food preparations are practiced in a group setting. ***Placement in this course is based on the recommendation of The Planning and Placement Team.***
WHS	

6581 - Math Applications *Administrative approval required*	
Credit(s) 1	This course is designed to focus on pre-algebra and pre-geometry skills and to prepare students for success in Algebra 9-1. It is designed to engage student involvement in problem-solving and reasoning as well as continued reinforcement and application of computational skills. ***Placement in this course is based on the recommendation of The Planning and Placement Team.***
SHS **WHS**	

9796 - SEL Life Skills (WHS) *Administrative approval required*	
Credit(s) 1	This is a class that provides an array of therapeutic activities and supports for students with emotional, behavioral, and academic challenges. The students have the ability to process and connect with fellow students, learn therapeutic techniques and skills to cope and manage challenges, and learn executive functioning skills. The group discusses and explores strategies that develop emotional intelligence and strength in mental health. SEL Skills includes a Study Skills class where students are guided through the process of identifying their learning and study skill styles. Specific topics may change based on student needs.
WHS	

9670 - Leisure Skills *Administrative approval required*	
Credit(s) 1	This course provides exposure to a variety of recreational/leisure activities. The course includes guidance to students in their decision-making process regarding after-school activity participation and community-related events. Skills developed while participating in these activities include organization and planning, problem-solving, forecasting and predicting, and initiating and completing tasks.
WHS	

9591 - Employability Skills (WHS) *Administrative approval required*	
Credit(s) 1	Employability Skills is a year-long, collaboratively taught course for English Language Learners and students who are interested in a vocational/trade path that focuses on the development of knowledge and skills necessary to prepare for paid employment. This course will address vocabulary, receptive and expressive reading, writing, and speaking as it pertains to job seeker activities (reading and evaluating job descriptions, writing resumes and cover letters, filling out forms, participating in interviews, etc).
WHS	

9513 - Daily Living Skills *Administrative approval required*	
Credit(s) 1	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 home. The course includes speech and language development, development of social/emotional skills, and fine and gross motor development. Instruction emphasizes independent living and self-help skills including health/nutrition, hygiene, grooming, self-advocacy, and domestic skills such as cooking, shopping, and housekeeping. ***Placement in this course is based on the recommendation of The Planning and Placement Team.***
SHS **WHS**	

9744 - Academic Intervention - Mathematics *Administrative approval required*	
Credit(s) 0.5	The goal of Academic Intervention is to provide short-term assistance to students who need academic support during the school day. Students are identified for placement through the Scientific Research-based Intervention (SRBI) process. Students will have the opportunity for small group direct instruction from a teacher as well as independent practice. Specific services, supports and goals will be determined on an individual basis by the Student Support Team (SST).
SHS **WHS**	

9743 - Academic Intervention - Literacy *Administrative approval required*	
Credit(s) 0.5	The goal of Academic Intervention is to provide short-term assistance to students who need academic support during the school day. Students are identified for placement through the Scientific Research-based Intervention (SRBI) process. Students will have the opportunity for small group direct instruction from a teacher as well as independent practice. Specific services, supports and goals will be determined on an individual basis by the Student Support Team (SST).
SHS **WHS**	

3999 - Specialized Reading *Administrative approval required*	
Credit(s) 0.5	This course provides literacy support for students in grades 9 and 10, with a focus on mastery of foundational reading skills which include phonics, spelling, sentence structure, and fluency. Frequent opportunities to practice foundational skills are provided as students engage in close reading and critical analysis of authentic grade-level text, while simultaneously developing the advanced literacy skills needed to gain meaning from text, understand sentence structure, and build critical skills for writing. ***Placement in this course is based on the recommendation of The Planning and Placement Team.***
SHS **WHS**	

0855 - Learning Through Music and Art	
Credit(s) 0.5	Learning Through Music and Art enables all students to participate in a variety of artistic and musical tasks that develop self-identity, interpersonal skills, transition skills, and the prevention of negative life consequences through improved choice-making. Through a variety of authentic art and music projects, students will learn strategies for improving communication, academic, transition, and interpersonal skills for success in the classroom and beyond. No prior music or art skills are required. ***Placement in this course is based on the recommendation of The Planning and Placement Team.***
SHS **WHS**	

3792 - Literacy Lab (SHS)	
Credit(s) 0.5	This course provides additional time and support for those students who need to improve their basic literacy skills. Course enrollment is determined by grades and teacher recommendations.
Grade: 9	
SHS	

Eliandra Tiburcio - Stamford High School

8650 - Reading *Administrative approval required*	
Credit(s) 1	This course provides direct assistance and remediation in decoding, overall reading skills, study skills, vocabulary development, and written language. This course emphasizes the strengthening of oral reading fluency, structural analysis, word attack skills, specific comprehension development, writing skills, vocabulary usage, and reference/study skills. Students apply overall reading skills to the classroom setting, practical life situations, and post-graduate situations/careers.
SHS **WHS**	

9500 - Functional Academics (WHS) *Administrative approval required*	
Credit(s) 1	This course develops, maintains, and enhances basic skills in reading, math, science, and writing utilizing approaches adapted to meet individual student needs. The program includes speech and language development, development of social/emotional skills, and fine and gross motor development. Students apply basic functional skills to everyday activities.
WHS	

0156 - Art Partners (SHS) NEW! *Administrative approval required*	
Credit(s) 0.5	This course provides experiences that are grounded in the activities of viewing, discussing, interpreting, valuing, preserving, and making works of art. The Art Partners curriculum supports learning in many areas of a student's school experience, including language arts, social studies, cognitive development, socialization skills, and emotional intelligence.
SHS	

0157 - Music Create (SHS) NEW! *Administrative approval required*	
Credit(s) 0.5	Music Create! is an opportunity to learn the basics of playing musical instruments and composing original music to interpret art created from the course pre-requisite, Art Partners. Placement in this course is based on the recommendation of The Planning and Placement Team.
SHS	

ENGLISH

The four-year English program is designed to provide students with reading, writing, and oral skills to encourage responsible social interaction, to enhance the learning process, and to generate enthusiasm for the power of language. All students are required to take four years of English. In addition, students are encouraged to select English electives that will broaden their experience and enrich their knowledge of language and literature.

The English curriculum emphasizes skills for college readiness and advanced courses. In order to prepare students for their role in a diverse society, literature encompasses texts from a multitude of cultures.

(For information on Honors, AP, IB, and UConn ECE courses, see pages 9-10)

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Graduation Requirement 4 Credits - Possible Course Sequences			
Grade 9	**Grade 10**	**Grade 11**	**Grade 12**
English 9 Honors English 9	English 10 Honors English 10	English 11 Honors English 11 AP English Language and Composition UConn ECE English 1007 (WHS) IB Language and Literature HL1 (SHS)	English 12 Honors English 12 AP English Literature and Composition (WHS) UConn ECE English 1007 (SHS) IB Language and Literature HL2 (SHS)

Electives			
Creative Writing 1 (WHS & SHS) Sports Literature (WHS & SHS) English Lab 9 (WHS) Science Fiction and Fantasy (SHS) Credit Recovery 9 (WHS) Credit Recovery 11 (WHS)	Acting in Theater and Film (WHS) Creative Writing 2 (WHS) Sheltered Creative Writing (WHS) Diverse Perspectives in Literature (WHS)	Video Game Theory and Creation (WHS) Viking Videos (WHS) Psychology in Literature (WHS)	Forensic Files: True Crime Stories (WHS) Teen Issues in Young Adult Literature (WHS) Diverse Perspectives: LGBTQ+ in Film & Literature (WHS)

3010 - English 9 *3000 - Honors* *3140 - Sheltered *All Sheltered classes require ML Department Head approval* *337 / 965 - Administrative approval required*	
Credit(s) 1 **SHS** **WHS**	This 9th-grade course focuses on thematic units of study designed to support the development of students' reading, writing, speaking, and listening skills. Students will read and analyze a wide variety of texts including fiction, poetry, and non-fiction. Students will develop writing skills through performance tasks in a variety of modes including argument, informative/explanatory, narrative, and presentation. Literature studied in this course will include canonical and contemporary texts from a variety of diverse voices.

3110 - English 10 *3100 - Honors* *3240 - Sheltered *All Sheltered classes require ML Department Head approval* *339 / 956 - Administrative approval required*	
Credit(s) 1 **SHS** **WHS**	This 10th-grade course focuses on thematic units of study designed to support the development of students' reading, writing, speaking, and listening skills. Students will read and analyze a wide variety of texts including fiction, poetry, and non-fiction. Students will develop writing skills through performance tasks in a variety of modes including argument, informative/explanatory, narrative, and presentation. Literature studied in this course will include canonical and contemporary texts from a variety of diverse voices.
Prerequisite:	English 9 or English 9 Honors

Ian Martinez - Westhill High School

3210 - English 11 *3200 - Honors* *3231 - Sheltered *All Sheltered classes require ML Department Head approval* *957 - Administrative approval required*	
Credit(s) 1 **SHS** **WHS**	This 11th-grade course focuses on thematic units of study designed to support the development of students' reading, writing, speaking, and listening skills. Students will read and analyze a wide variety of texts including fiction, poetry, and non-fiction. Students will develop writing skills through performance tasks in a variety of modes including argument, informative/explanatory, narrative, and presentation. Literature studied in this course will include canonical and contemporary texts from a variety of diverse voices.
Prerequisite:	English 10 or English 10 Honors

3260 - AP English Language and Composition 11	
Credit(s) 1 **SHS** **WHS**	This course primarily focuses on the study of rhetoric and persuasion. Students read and analyze nonfiction selections to identify and explore purposeful choices made by sophisticated writers.
Prerequisite:	**SHS Prerequisite:** English 10, English 10 Honors, IBMYP English 10 **WHS Prerequisite**: English 10 or English 10 Honors

3262 - UConn ECE English 1007	
Credit(s) 1 **SHS** **WHS**	This course focuses on college composition through multiple forms of literacy, including rhetorical, digital, and information literacies necessary for twenty-first-century contexts. The development of creatively intellectual inquiries through sustained engagement texts, ideas, and problems. Emphasis on the transfer of writing and rhetorical skills to academic and daily life. Students participate in regular studio sessions that provide contexts, tools, and practices for producing and engaging with digital (and analog) rhetoric.
Prerequisite:	**SHS Prerequisite:** English 11, English 11 Honors, or AP English Language and Composition; **WHS Prerequisite**: English 10 or English 10 Honors

3281 - English 12 *3280 - Honors* *3340 - Sheltered* *958 - Administrative approval required*	
Credit(s) 1 **SHS** **WHS**	This 12th-grade course focuses on thematic units of study designed to support the development of students' reading, writing, speaking, and listening skills. Students will read and analyze a wide variety of texts including fiction, poetry, and non-fiction. Students will develop writing skills through performance tasks in a variety of modes including argument, informative/explanatory, narrative, and presentation. Literature studied in this course will include canonical and contemporary texts from a variety of diverse voices.
Prerequisite:	English 11, English 11 Honors, or AP Language and Composition

3300 - AP English Literature and Composition 12 (WHS)	
Credit(s) 1 **WHS**	This course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.
Prerequisite:	English 11, English 11 Honors, or AP English Language and Composition

3361 - Creative Writing 1	
Credit(s) 0.5 **SHS** **WHS**	This course requires students to demonstrate an ability to write in a creative manner in a variety of literary formats that include the short story, drama, and poetry. Group reading of works in progress is expected and revision based on peer critique is required. Students analyze the writing of established writers to demonstrate their understanding of the creative process and learn to discover their own creative voices.

3363 - Sheltered Creative Writing (WHS)	
Credit(s) 0.5	This is an adapted version of Creative Writing 1 that is designed to support English Language learners. Students will write in a creative manner in a variety of literary formats that include the short story, drama, and poetry. Students will have opportunities to write in English and in their native languages. Group reading of works in progress is expected and revision based on peer critique is required. Finally, students will analyze the writing of established writers to demonstrate their understanding of the creative process and learn to discover their own creative voices.
WHS	

3590 - Creative Writing 2 (WHS)	
Credit(s) 0.5	This is a publication course that builds upon the skills fostered in Creative Writing 1. While students in this course will continue to work closely with their peers and the instructor to create, revise, and edit works of fiction and nonfiction, they will also produce and publish multiple editions of *The Hillside Muse*, the school's literary magazine. Students will read and edit submissions to the magazine, design page layouts, embed illustrations and graphics, and manage the publication and distribution of the final product.
Grades: 10, 11, 12	
WHS	
Prerequisite:	Creative Writing 1 or Sheltered Creative Writing

383 - Diverse Perspectives in Literature		
Credit(s) 0.5		This course explores the concept of voice in literature; the emphasis is on those voices often left out of traditional literary study. The voice may refer to the author of a work or its subject that provides a singular perspective on life experiences. Minority voices may include but are not limited to African-American, Native-American, Asian-American, Latin-American, female, or other diverse communities.
SHS	**WHS**	

3700 - Credit Recovery 9 (WHS) *3701 - Credit Recovery 11 (WHS)*	
Credit(s) 0.5	This is a workshop course designed for students who have not successfully completed the requirements of English 9 or English 11. Credit Recovery is a skill-based course; students will complete a variety of activities designed to support close reading and analysis of a variety of complex literary and visual texts. Assignments will be differentiated to meet the needs of individual students and support the requirements of the particular grade level. In order to receive a passing grade for this course, students will need to submit a portfolio of work and earn a passing grade on a reading and writing assessment.
Grades: 10, 12	
WHS	

Adilene Pulido - Westhill High School

Sergio Lopez - Westhill High School

3820 - Science Fiction and Fantasy	
Credit(s) 0.5	This semester course invites students to enter the thrilling realms of science fiction and fantasy in stories, novels, screenplays, and movies. Assessments can be designed by students themselves, ranging from essays to original presentations, videos, podcasts, or any format that is both creative and rigorous.
SHS	

3740 - Sports Literature		
Credit(s) 0.5		This course examines a variety of universal themes as portrayed in literature and media. Guest speakers, stories, article readings, and films of the greatest sport figures, past and present, are featured. Through frequent writing, students demonstrate and learn to improve basic skills in composition and oral presentation.
SHS	**WHS**	

2476 - Video Game Theory and Creation (WHS)	
Credit(s) 0.5	This semester course gives students a unique opportunity to explore video game theory as brought to life in their favorite computer games, then use their own ideas to create new characters and storylines in original and spin-off scripts. Assessments will be in the form of computer game competitions, brainstorming sessions, and original written material for newly created games.
WHS	

3018 - Viking Video (WHS)	
Credit(s) 1.0	TikTok Stars, Budding Journalists, Content Creators, SNL Hopefuls: In this journalistic course students will craft a video news AND skit program to air every 2-3 weeks. We will cover upcoming events, school news and information, and the occasional spirited "Viking-themed" version of skits - like "Car-Pool Karaoke" with staff and students. Students in the course will take on jobs' such as scriptwriter/editor, on-air talent, videographer, video editor, etc. In addition to the news/skit series, we'll create other Westhill promotional videos as needed, record student performances for posterity, plan and put on the Lip Dub and such, and maintain a section of the website where all these videos will be kept.
WHS	

3744 - Forensic Files: True Crime Stories (WHS)	
Credit(s) 0.5	Students taking this course will read, watch, and discuss true crime stories presented through a variety of genres, focusing on both the experiences of the criminal and those involved with the criminal justice system. Students will gain a deep understanding of the background and motives of a criminal, trying to piece together why an "average" person can be drawn to commit heinous acts. They will also gain a thorough understanding of the criminal justice system, analyzing how these criminals were or were not able to get away with their crimes.
Grades: 10, 11, 12	
WHS	

3747 - Teen Issues in Young Adult Literature (WHS)	
Credit(s) 0.5	This semester course will offer students an introduction to young adult literature. Students will read and analyze texts from a variety of genres with emphasis placed on diverse voices and perspectives. Readings will focus on issues connected to the adolescent experience such as gender, identity, culture, race, friendship, and coming of age. In addition to discussions and writing assignments focusing on critical analysis of the literary features of these books, students will also analyze and evaluate film adaptations of selected works. Finally, students will have an opportunity to begin to outline and develop an original work of young adult fiction.
WHS	

3746 - Diverse Perspectives: LGBTQ+ in Film & Literature (WHS)	
Credit(s) 0.5	Students taking this course will explore the stereotypes associated with women and the LGBTQ+ community by evaluating how they were formed and how they have evolved over time. Students will apply their understanding of diverse perspectives from film and literature in order to understand the complicated ways that gender, class, and race intersect with sexuality in the modern world. The course is designed to enhance awareness with appreciation and respect for the diversity of individuals in our society. This course strives to create a middle ground between a variety of writing assignments including literary analysis, student reflection, and encouraging students to develop their own authentic writing voice.
Grades: 10, 11, 12	
WHS	

0330 - Acting in Theater and Film (WHS)	
Credit(s) 1.0	This full-year course will give students the opportunity to develop the differing acting skills needed for performing in the theater and in films. Through classroom exercises and scene work, students will focus on character study and various methods of acting techniques, including the Method developed by Stanislavsky, Strasberg, and Hagen. More externalized approaches exemplified by Olivier and Caine will also be explored. In-depth scene study will also be integral to the course, as will the development of memorization and improvisation skills. Assessments will be both performance-based and written reflections on character development and backstories.
WHS	

Khargia Williams - Westhill High School

William Punay Mateo - Westhill High School

Marisol Martinez Valdovinos - Westhill High School

Amber Powell - Anchor

Elizabeth Menedez - Westhill Hill School

CO-CURRICULAR ELECTIVES

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Course Offerings	
Communications	Yearbook: Design and Publication (SHS)
Journalism	Yearbook: Design and Publication (WHS)
	Independent Study – Capstone Experience (SHS)

3250 - Communications		
Credit(s) 1		Communications exposes students to a variety of media techniques and theory. The course highlights all current media forms, including print and TV journalism. Students write in the various modes of interviewing, researching, verifying, and reporting, becoming effective users of language. Students become critical readers able to recognize bias and to recognize and apply the techniques of editorializing. Students work closely with journalism tutors to become proficient in news writing, page makeup, photojournalism, and advertising sales.
SHS	**WHS**	

3270 - Journalism		
Credit(s) 1		Students participate in the publication of the school paper. The course includes a broad range of activities: basic news writing, layout techniques, basic copy-editing, and working with Communications students in a leadership capacity. Prospective students must demonstrate a mastery of newspaper fundamentals and a strong commitment to improving the role of the newspaper in the high school setting.
SHS	**WHS**	
Prerequisite:		Communications

0300 - Yearbook Design and Publication (SHS)	
Credit(s) 1	Design and Publication offers an interdisciplinary approach to the production of the school's yearbook. Students learn layout design, photojournalism, business management, marketing, and advertisement while using graphics software and the Internet. The yearbook is produced on-line utilizing interactive programs provided by the publishing company. After-school commitment is encouraged.
SHS	
Prerequisite:	Juniors and seniors only unless approved by the Department Head.

3650 - Yearbook Design and Publication (WHS)	
Credit(s) 1	The Yearbook course offers an interdisciplinary approach to the production of the school yearbook. Students study contemporary print design, photojournalism, business management, marketing, and technology (Photoshop, and Yearbook Avenue), and apply this learning to the creation of the yearbook. During the first quarter, students apply for and take on specific roles, like that of the page editor, photographer, business manager, and supplement writer, for the remainder of the year. Some positions require additional hours after school.
WHS	

Markiss Lindsay - Anchor


Nickoy Brown - Anchor

SOCIAL STUDIES

The Social Studies program is designed to prepare students to take an active role in the affairs of their local, state, and national community. It explores the traditions and ideals of our national heritage and their relationship to the history of the world. The focus is on the process of reaching rational decisions based on facts gathered through research, the rules and responsibilities of a just society, the importance of economic and geographic relationships, and the richness of our history and its diversity. With a thorough knowledge of the historic foundations, students develop the skills and competencies to become responsible citizens in our democratic society.

(For information on Honors, AP, IB, and UConn ECE courses, see pages 9-10)

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Graduation Requirement 3 Credits - Possible Course Sequences			
Grade 9	**Grade 10**	**Grade 11**	**Grade 12**
World (1 credit) AP Human Geography (1 credit)	United States History (1 credit) AP World History (1 credit) Plus Electives (see below)	Civics 1 (0.5 credit) Civics 2 (0.5 credit) AP United States History or UConn ECE United States History (1 credit) IB Courses (History, Psych) (SHS) (1 credit) *Civics 1 is a required course Plus Electives (see below)	Full-Year Electives (1 credit) Semester Electives (0.5 credit) AP Electives (1 credit) UConn ECE Electives IB Courses (History, Psych) (SHS) (1 credit)

Course Offerings

0.5 credit Electives

Contemporary Issues
Introduction to Psychology
Law and Justice
American History through Pop Culture
World Geography & Cultures
Genocide Studies **(WHS)**
History of Television **(WHS)**
Women in American Society **(SHS)**
Stress Management & Intervention Strategies **(SHS)**
Fates of Human Civilizations - **Honors (WHS)**
Civics 2

1 credit Electives

AP European History
AP Macroeconomics
AP Microeconomics
AP Psychology
AP US History
AP United States Government & Politics
AP World History
African American /Latino Puerto Rican Studies
Economics
Broadcasting **(WHS)**
Honors Seminar in Philosophy
Advanced Economic Applications **-Honors (WHS)**
Independent Study Social Studies
UConn ECE US History
UConn ECE Educational Psychology **(WHS)**
UConn ECE European History **(WHS)**
UConn ECE Essentials of Economics **(WHS)**
UConn ECE Introduction to Asian American Studies **(WHS)**
UConn ECE Contemporary Social Issues in Sports **(WHS)**
UConn ECE Macroeconomics
UConn ECE Microeconomics
IB History HL 1&2 **(SHS)**
IB Psychology SL 1&2 **(SHS)**
IB Psychology HL 1&2 **(SHS)**
IB Economics HL 1& 2 **(SHS)**
IB Theory of Action 1,2 & 3**(SHS)**
IBMY Civics 1 **(SHS)**
IBMY US History **(SHS)**
IBMY World History **(SHS)**

5131 - World
5131- World Honors
5160- World Sheltered
963 - World Administrative approval required

Credit(s) 1

SHS **WHS**

Students will explore belief systems and innovations from around the World as well as revolutions and globalization. Students explore such questions as: What factors shape our values and beliefs? And What are the purposes of a government?
How do belief systems affect a region's political, economic development, and social systems?
What is creativity and what is its importance?
What role did science and technology play in the changes that took place in political and social structures?
What are the short-term and long-term impacts of revolution that make it a success or failure?
How has globalization led to the advancement of people?
How has globalization negatively impacted a region?

Mario Belzi - Stamford High School

5690 - AP Human Geography		
Credit(s) 1		Explore how humans have understood, used, and changed the surface of Earth. You'll use the tools and thinking processes of geographers to examine patterns of human population, migration, and land use. This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the earth's surface. Students are expected to take the Advanced Placement examination at the conclusion of the course. This course is an alternative to the World requirement.
SHS	**WHS**	

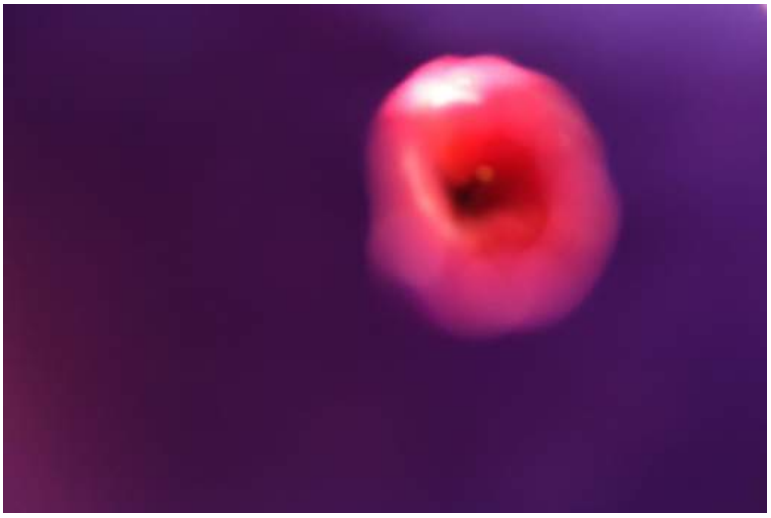
5050 - AP World History		
Credit(s) 1		Study the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. Course units include: Unit 1: The Global Tapestry Unit 2: Networks of Exchange Unit 3: Land-Based Empires Unit 4: Transoceanic Interconnections Unit 5: Revolutions Unit 6: Consequences of Industrialization Unit 7: Global Conflict Unit 8: Cold War and Decolonization Unit 9: Globalization. Students are expected to take the Advanced Placement examination at the conclusion of the course.
SHS	**WHS**	
Prerequisite:		1 Year of Social Studies

5710 - Civics 1 *5700 - Civics Honors* *5760 - Sheltered* *977 - Administrative approval required*	
Credit(s) 0.5 **SHS** / **WHS**	Students will explore such questions as: What are the fundamental beliefs of American democracy? What is the balance between the power of the individual and the American government? How did conflict and compromise shape the American government? How do the political institutions of the United States interact to meet the needs of its citizens? How have the principles of American democracy evolved over time? How does conflict and compromise shape the American government?
Prerequisite:	World, United States History

5210 - United States *5240 - United States Honors* *5260 - United States Sheltered* *976 - United States Administrative approval required*	
Credit(s) 1 **SHS** / **WHS**	Students will explore what American Identity is. Students will explore such questions as: What is American Identity and how does it differ for various groups? What are the social, economic, cultural, and political barriers and achievements faced by various groups throughout United States history? Does America provide equal political, economic, and social opportunities for all? How does a nation become a World Power? How did global competition lead to conflict, cooperation, and innovation? To what extent did democratic ideals influence America's response to events at home and abroad? What are the consequences of war, and how do these vary based on an individual or cultural perspective? How does a nation become a Superpower? What forces shaped US foreign policy after World War 2? How did the Cold War shape modern American society? What were the economic, political, and social ramifications of 9/11?
Prerequisite:	World

5200 - AP United States History	
Credit(s) 1.0	AP U.S. History is an introductory college-level U.S. history course. Students cultivate their understanding of U.S. history from c. 1491 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. This full-year United States history class prepares students for the AP U.S. History class in May.
SHS **WHS**	
Prerequisite:	Completed 2.0 credits in Social Studies

5230 - UConn ECE United States History	
Credit(s) 1.0	UConn ECE U.S. History is an introductory college-level U.S. history course in which students cultivate their understanding of U.S. history from pre-Columbian America to the present day through analyzing primary & secondary sources and by learning to make connections and craft historical arguments to major themes in American history. This full-year United States history class prepares students for U.S. History credit through the University of Connecticut. UConn ECE credits are transferable to most colleges.
SHS **WHS**	
Prerequisite:	Completed 2.0 credits in Social Studies



Sarahi Rodriguez - Stamford High School

5017 - Civics 2 *5017 - Civics 2 Honors* *5017 - Civics 2 Sheltered*	
Credit(s) 0.5 **SHS** **WHS**	Students will explore citizenship and civics in action. Students will explore: What does it mean to be an American citizen? How do Americans participate in a Constitutional Democracy? Why is American democracy policy always changing? What are major societal problems today? How do we/I participate in a Constitutional Democracy? How do I/we influence change in government policy living in America?
Prerequisite:	World, Civics 1, United States, or equivalent AP courses

5410 - AP European History *5411 - UConn ECE European History (WHS)*	
Credit(s) 1 **SHS** **WHS**	Study the cultural, economic, political, and social developments that have shaped Europe from c. 1450 to the present. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. Units of study include: Unit 1: Renaissance and Exploration Unit 2: Age of Reformation Unit 3: Absolutism and Constitutionalism Unit 4: Scientific, Philosophical, and Political Developments Unit 5: Conflict, Crisis, and Reaction in the Late 18th Century Unit 6: Industrialization and Its Effects Unit 7: 19th-Century Perspectives and Political Developments Unit 8: 20th-Century Global Conflicts Unit 9: Cold War and Contemporary Europe
Prerequisite:	Completed 3.0 credits in Social Studies

5983 - AP Macroeconomics *5980 - UConn ECE Macroeconomics*	
Credit(s) 1 **SHS** **WHS**	Explore the principles of economics that apply to an economic system as a whole. You'll use graphs, charts, and data to analyze, describe, and explain economic concepts. It places particular emphasis on the study of national income and price determination and developing students' familiarity with economic performance measures, economic growth, and international economics. ECE is a college-level accredited course.

5960 - AP Microeconomics *5961 - UConn ECE Microeconomics*	
Credit(s) 1	Study the principles of economics that apply to the behavior of individuals within an economic system. You'll use graphs, charts, and data to analyze, describe, and explain economic concepts. This course focuses on the behavior of individuals and businesses as they exchange goods and services in the marketplace through the study of economic concepts such as understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. ECE is a college-level accredited course.
SHS / **WHS**	

5970 -AP Psychology	
Credit(s) 1	Explore the ideas, theories, and methods of the scientific study of behavior and mental processes. You'll examine the concepts of psychology through reading and discussion and you'll analyze data from psychological research studies. The units of this course are: Unit 1: Scientific Foundations of Psychology Unit 2: Biological Bases of Behavior Unit 3: Sensation and Perception Unit 4: Learning Unit 5: Cognitive Psychology Unit 6: Developmental Psychology Unit 7: Motivation, Emotion, and Personality Unit 8: Clinical Psychology Unit 9: Social Psychology
SHS / **WHS**	
Prerequisite:	Completed 2.0 credits in Social Studies including United States

5950 - AP United States Government and Politics	
Credit(s) 1	Study the key concepts and institutions of the political system and culture of the United States. You'll read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project. The course focuses on five thematic units: Foundations of American Democracy; Interactions Among Branches of Government; Civil Liberties and Civil Rights; American Political Ideologies and Beliefs; and Political Participation.
SHS / **WHS**	
Prerequisite:	Completed 3.0 credits in Social Studies

5391 - African American/Latino Puerto Rican Studies	
Credit(s) 1	This course is offered as a **full-credit** elective course that provides students with a better understanding of the African-American, Black, Puerto Rican, and Latino contributions to United States history, society, economy, and culture. The first half will be African American Studies with emphasis on African Origins and Contributions of Ancient African Empires, Slavery and Freedom stories of Resistance and Agency, Black Literacy, Organization, and Liberation, History of Equity, Black Movement for Equity and Protest, Politics and Power. The second half will be Latin American/Puerto Rican Studies with emphasis on Who are we? Early beginnings, Blood and Beauty, Sweat, Resistance, and Where are we now? Contributions in Connecticut. This course is aligned with Connecticut Social Studies Frameworks.
Grades 10-12	
SHS **WHS**	

5320 - Economics	
Credit(s) 1	This course focuses on the theoretical components of micro and macroeconomics. It examines how income is distributed and why goods are produced, exchanged, and consumed, emphasizing students' abilities to understand the interplay within domestic markets and across markets internationally.
SHS **WHS**	
Prerequisite:	Completed 3.0 credits in Social Studies

5360 - Honors Seminar in Philosophy	
Credit(s) 1	This course traces the history of ideas. This is done by student research in original sources, student reports, lectures, and discussions. Critical thinking skills are emphasized in examining how Western people have molded political, social, moral, and economic institutions.
Grade 12	
SHS **WHS**	
Prerequisite:	Completed 3.0 credits in Social Studies

5310 - Contemporary Issues	
Credit(s) 0.5	This course deals with issues and events of the present day that have significance for the individual in modern society. The immediate implication of events is explored. Basic communication and critical thinking skills necessary for citizenship are stressed.
SHS **WHS**	
Prerequisite:	United States History

Angelo Vaccarezza - Stamford High School

5610 - Introduction to Psychology	
Credit(s) 0.5	This course is a survey of topics in the field of psychology. Topics include biological influences on behavior, personality, learning, memory, and abnormal psychology.
SHS **WHS**	
Prerequisite:	1.5 credits in Social Studies

5550 - Law and Justice	
Credit(s) 0.5	This course examines the American system of justice. Students study, analyze, and apply the laws of society. They examine police enforcement and the court system as it applies to criminal justice and juvenile justice. Students discuss the rights of individuals and their accountability to society. Additional topics include the Supreme Court, precedent cases, and why the Constitution is a corner-stone document.
SHS **WHS**	
Prerequisite:	Civics 1

5681 - American History through Pop Culture	
Credit(s) 0.5	This course explores post-World War II America from the 1950's to today through the lens of popular culture with an emphasis on major shifts in music, movies, sports, television, and technology. Extensive hands-on research and technology is used in this class. Students research independent or collaborative projects that relate to the development of popular culture and subcultures of the eras.
SHS **WHS**	
Prerequisite:	United States History

5810 - World Geography and Cultures	
Credit(s) 0.5	This course is dedicated to the study of the world around us. The class starts with an introduction to geography in which students learn the five themes of geography, the features that define the earth, the climate patterns of the earth, how to study peoples and cultures of the earth, and how to use various geographic tools. Students use the skills they have learned to apply to the areas of the world we are studying. These areas are addressed in terms of physical features and culture, which includes studies of population patterns, history and government, and cultures/lifestyles. Finally, each area's recent history/current events and status within the international community are studied.
SHS **WHS**	

5394 - Women in American Society: An Examination of Women's History in Colonial America and Early Republic (SHS)	
Credit(s) 0.5	This course will be an examination of women's lives from 1865 to the present, placing them at the center of our interpretation. We will consider the social, political, cultural, and economic histories of women in the United States from 1865 to the present, paying attention to how women have played active roles in shaping American history and society from 1865 to the present day. Women's history reveals larger themes in US history, and we will examine the ties between the two. Together, we will work to find answers to the following questions: How did women's lives from 1865 to the present-day change throughout history? How did women shape their lives then and now? How is history different when viewed from a woman's perspective? What is the value of examining women's roles in American Society from 1865 to the present?
SHS	

5520 - Stress Management and Intervention Strategies (SHS)	
Credit(s) 0.5	If you experience stress in your life, this course is for you. Chronic stress not only impairs our brain functions it also does lasting damage to our brains and bodies. Luckily, there is a lot we can do, as we will see in this course that focuses on positive psychology. First, we will analyze stress (where it comes from, what it does), including different types of stress, and its impact on the brain and body. Next, we will investigate a myriad of psychological techniques for the mind, body, and spirit to address and combat stress. Students will learn how to identify stressors, and techniques that address those stressors, and ideally learn how to become more mindful, relaxed, and productive instead of stressed, frazzled, and burned out.
SHS	

5005 - IB History HL 1	
Credit(s) 1	This 11th-grade course is year one of a two-year course. History is an exploratory subject that fosters a sense of inquiry. It is also an interpretive discipline, allowing the opportunity for engagement with multiple perspectives and opinions. Studying history develops an understanding of the past, which leads to a deeper understanding of the nature of humans and of the world today. In this year one course, the focus is on American history based on a comparative, multi-perspective approach and focused around key historical concepts such as change, causation, and significance. It involves the study of a variety of types of history, including political, economic, social, and cultural, encouraging students to think historically and to develop historical skills.
SHS	

Angie Lopez Preza - Stamford High School

5006 - IB History HL 2	
Credit(s) 1	This 12th-grade course is year two of a two-year course. This course continues to explore world history in a way that fosters a sense of inquiry. It requires students to study and compare examples from different regions of the world, helping to foster international-mindedness. Teachers choose relevant examples to explore with their students, helping to ensure that the course meets their students' needs and interests regardless of their location or context. This course continues on with a comparative, multi-perspective approach and focused around key historical concepts such as change, causation, and significance. It involves the study of a variety of types of history, including political, economic, social, and cultural, encouraging students to think historically and to develop historical skills. Students in this course participate in historical investigation.
SHS	
Prerequisite:	Completion of IB History HL 1

5009 - IB Psychology SL 1 ***5007 - IB Psychology HL 1***	
Credit(s) 1	This 11th-grade course is year one of a two-year course. This course serves as an introduction to three different approaches to understanding behavior: the biological, cognitive, and sociocultural approaches. Students study and critically evaluate the knowledge, concepts, theories, and research that have developed their understanding in these fields. This course aims to expose students to diverse methods of inquiry and develop an understanding and observance of ethical practice in psychology research. Students explore such areas as: abnormal psychology, developmental psychology, health psychology, and/or the psychology of human relationships. In the HL course, students also analyze qualitative and quantitative research in psychology and evaluate research scenarios from a methodological and ethical perspective.
SHS	

5011 - IB Psychology SL 2 ***5008 - IB Psychology HL 2***	
Credit(s) 1	This 12th-grade course is year two of a two-year course. This course continues to discuss three different approaches to understanding behavior: the biological, cognitive, and sociocultural approaches. Students continue to study and critically evaluate the knowledge, concepts, theories, and research that have developed their understanding in these fields. This course aims to expose students to diverse methods of inquiry and develop an understanding and observance of ethical practice in psychology research. Students explore such areas as: abnormal psychology, developmental psychology, health psychology, and/or the psychology of human relationships. In the HL course, students also analyze qualitative and quantitative research in psychology and evaluate research scenarios from a methodological and ethical perspective.
SHS	
Prerequisite:	Completion of IB Psychology 1

Jossie Montenegro Veliz - Stamford High School

5460 - Genocide Studies (WHS)	
Credit(s) 0.5	Pre-AP World History is a social studies course that focuses on utilizing the methods of historians and geographers to first closely examine sources to generate insights and build claims. In this course, students will uncover and imitate the roles of historians using tools to learn about the world, its inhabitants, and the decisions that impacted world history.
WHS	
Prerequisite	Completion of Civics 1 and United States History

5614 - UConn ECE Educational Psychology	
Credit(s) 1	Educational Psychology is a Social Studies elective that focuses on the psychology of education. Enrolled students should be interested in pursuing a career in education. Students will reflect, research, and apply pedagogical practices. This is a college-level accredited course.
WHS	
Prerequisite	Successful completion of Civics, United States History, and either Intro to Psychology or AP Psychology

5470 - Broadcasting (WHS)	
Credit(s) 1	Broadcasting is a Social Studies elective that focuses on research, content development, organization and production. Students must have successfully completed Civics and United States History in order to be eligible and apply for enrollment.
WHS	
Prerequisite	Successful completion of Civics1 and United States History

5455 - Fates of Human Civilizations Honors	
Credit(s) 0.5	This course will begin with a historical survey examining how and why human civilizations developed due to varying factors and available resources. We will evaluate how and why innovations, disasters, and human cooperation & conflicts gradually lead to cultural and demographic changes, from the dawn of languages & currency to modern industrial & global civilizations. The course will then transition into an exploration of historical 'case studies' examining why civilizations at different times and places collapsed. We will explore historical evidence to help assess to what degree human decisions contributed to these collapses. We will next follow this same process to evaluate how human civilizations confronted with a crisis, dealt with their problems through effective or ineffective human decision-making and action. Lastly, we will assess the current state of human civilizations and current problems and challenges facing societies around the globe face from potential environmental catastrophes to the roles of artificial intelligence. We will cross-reference these unresolved issues with the framework of human decision-making we developed earlier in the course.
WHS	

5421- Advanced Economics Applications Honors	
Credit(s) 1	This course deals with the basic principles of applied economics, and its application to contemporary economic issues facing the United States such as prices of commodities, minimum wage, rent, and taxes. The main output of the course is the socioeconomic impact study of economic policy.
WHS	
Prerequisite:	AP Macroeconomics or AP Microeconomics

5987 - UConn ECE Introduction to Asian American Studies	
Credit(s) 1	This full-year course uses an interdisciplinary approach to explore major themes in Asian American studies. Organized both chronologically and thematically, this multidisciplinary course will explore the history of Asian migration to the U.S. to the Asian American experience today. Concepts of immigration, identity, history, art, and representations of Asians in visual and pop culture will be studied.
WHS	
Prerequisite:	Civics 1

5986 - UConn ECE Contemporary Social Issues in Sport	
Credit(s) 1	This full-year course will explore socio-cultural, economic, political, and other related issues in sports. Topics will focus at the youth, intercollegiate, professional, and international levels. This discussion-based seminar course will explore how sports are experienced differently by individuals, communities, organizations, and society.
WHS	
Prerequisite:	Civics 1

5265 - History of Television	
Credit(s) .5	This class explores television from its roots in radio to the latest developments in digital communication and its impact on society. Topics such as why the American television industry developed; how television programming has both reflected and influenced cultural ideologies through the decades; and how the historical patterns of television consumption have shifted due to new technologies and societal transformation will be analyzed.
WHS	
Prerequisite:	United States History

Sabrina Zuccarelli - Stamford High School

Visual Arts

In the visual arts area, a wide range of coursework is designed to develop an understanding of art, art production, cultural diversity, art history, and creative problem-solving. The Elements and Principles of Art and Design are emphasized in the curriculum for all art courses. Students interested in careers including architecture, fine and commercial art, photography, and crafts will find it useful to take as many art courses as possible. Individuals critique their own work and the work of peers to establish confidence and understand assessment. Art courses may be used for personal satisfaction as well as for acceptance to art schools or colleges.

(For information on Honors, AP, IB, CT State Norwalk, and UConn ECE courses, see pages 9-10)

Jossie Montenegro Veliz - Stamford High School

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Course Offerings			
Drawing & Painting 1, 2 Color & Design (0.5 credit) Printmaking (0.5 credits) Photography 1, 2 Digital Media 1,2 **NEW** Studio Art 2D AP Art Design: 2 D/Drawing AP Art & Design: Photography **(WHS)**	Ceramics 1, 2 Jewelry & Metalsmithing 1&2 **(WHS)** Mixed Media Art 1, 2 (0.5 credits) Sculpture 1, 2 (0.5 credit) Potter's Wheel 1, 2 (0.5 credit) Studio Art 3D	AP Art History **(WHS)** Mindful Art (1.0 credit) Art Partners Advanced Clay (0.5 credits) **(SHS)** AP 3D Art and Design	UConn ECE Drawing 1 **(SHS)** (0.5 credit) <u>CT State Norwalk:</u> 2D Design **(SHS)** (0.5 credit) Graphic Design 1 Skill & Principles **(SHS)** (0.5 credit) IB Visual Arts SL 1&2 **(SHS)** IB Visual Arts HL 1&2 **(SHS)**

0150 - Drawing and Painting 1

Credit(s) 1		This course explores basic aspects of drawing and painting including fundamentals of composition, color, and two-dimensional design using a variety of media, methods, and techniques. Class assignments incorporate art history with projects designed to foster conceptual as well as technical understanding.
SHS	**WHS**	

0250 - Drawing and Painting 2

Credit(s) 1		This course is designed to help students develop an ability to interpret and represent still life, nature, and portraiture through an in-depth study of the elements and principles of art and design. Various media including pencil, chalk, and watercolor are used to produce a variety of projects. Critiques, student work, and portfolio development are emphasized.
SHS	**WHS**	
Prerequisite:		Successful completion of Drawing and Painting 1, final grade of C or better.

0850 - Color and Design

Credit(s) 0.5		Students study two-dimensional design and composition with a focus on visual elements and principles of art and design. A study of color and color relationships is applied with projects such as optical design, collage, and printmaking. Craftsmanship, creativity, and critique of student work are stressed. Students pursuing creative careers (ie. Fashion, Interior Design) may also find this course helpful in the development of a portfolio.
SHS	**WHS**	

0516 - Printmaking	
Credit(s) 0.5 **SHS** **WHS**	This course introduces students to a variety of printmaking techniques using processes such as relief printing (monoprint, collagraph block); intaglio (etching and engraving); and epigraphy (silkscreen films, stencils, block-out). These courses emphasize design elements and principles and introduce art criticism as applied to fine art prints. Lessons may also include the historical development of printmaking in Western and non-Western cultures.

Edison Hilidago - Westhill High School

0190 - Photography 1	
Credit(s) 1 **SHS** **WHS**	Students explore black-and-white photography using a manual 35mm SLR camera and a digital camera. They learn chemistry, darkroom procedures, methods, and techniques necessary for proper film and paper development. Through a variety of assignments, students incorporate the elements and principles of art and design, aesthetics, history, and philosophy of photography. Ownership of a 35mm SLR camera and a digital camera is recommended. A limited number of loaner cameras are available from the department.

0200 - Photography 2	
Credit(s) 1 **SHS** **WHS**	Students refine and master traditional and digital photography techniques. Students will produce a series of advanced photographic images while mastering manual and digital camera functions, developing film and producing enlargements in the darkroom, and using additional technology such as scanners and printers. A limited number of 35mm SLR film and DSLR loaner cameras are available. It is recommended but not required if students can provide their own camera(s).
Prerequisite:	Successful completion of Photography 1, final grade of C or better.

0441 - Digital Media 1 NEW!	
Credit(s) 0.5	Digital Media 1 will expound on the foundational principles of visual communication incorporating design principles across various digital platforms. Students' projects may include a combination of traditional graphic design like posters, and business cards as well as modern forms of design in social media creation, and branding. Students learn about ethical and legal issues related to digital art, such as the use of copyrighted imagery and audio. In this course, students will learn the impact of storytelling and interactive design on our culture. Class sessions include group critiques. Digital media prepares students for careers in design, journalism, entertainment, and other fields that involve creating and publishing multimedia content.
SHS **WHS**	

0442 - Digital Media 2 NEW!	
Credit(s) 0.5	Building on the foundational principles of Digital Media 1 students will learn how to apply Digital Media and Graphic Design Principles as well as solve digital design problems learning the power of art and design. Units of study include ethical and legal issues related to digital art, such as the use of copyrighted imagery and audio. Projects may include graphic design (print and digital), web design, interactive media, gif creation, in addition to a digital portfolio. Class sessions include group critiques. Digital media prepares students for careers in design, journalism, entertainment, and other fields that involve creating and publishing multimedia content.
SHS **WHS**	

0400 - Studio Art 2D	
Credit(s) 1	This course is designed for the advanced visual arts student wishing to engage in higher levels of study in 2-D; drawing, painting, printmaking, photography, and computer graphics. This course directly prepares students for participation in the AP Art and Design 2D/Drawing course. The framework and instructional materials in this course include a deliberate focus on the process of producing creative works, including generating and refining ideas, practicing skills and techniques, revision, reflection, and collaboration. The goals and levels of achievement are demonstrated through the student's portfolio at the midterm and conclusion of each marking period. Students will also be asked to write about their work to prepare them for the required written reflections in AP Art and Design. It is recognized that students need to work outside the classroom and beyond the scheduled class periods.
SHS **WHS**	
Prerequisite:	Successful completion of 2 credits total of Visual Art, concentrating in 2D (any sequence or combination of: Drawing and Painting, Color and Design, Computer Graphics or Printmaking) with final grades of C or higher or Department Leader approval

0460 - AP Art and Design 2D/Drawing	
Credit(s) 1	This course serves as a capstone for students in their third or fourth year of successful art-making in high school. It is designed for students working in a wide variety of 2D media such as graphite, ink, paint, photographic and digital media. Students create a self-directed portfolio of work to demonstrate inquiry through art and design and the development of materials, processes, and ideas over the course of a year. As in introductory college courses, students will need to work inside and outside the classroom and beyond scheduled periods. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluations based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practices, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.
SHS **WHS**	
Prerequisite:	Successful completion of two credits total (any sequence) in Visual Art, in Drawing and Painting, Printmaking, Color and Design, Photography, or Computer Graphics, earning a final grade of C or higher, or obtain approval from the Department Leader.

0192 - AP Art and Design: Photography (WHS)	
Credit(s) 1	This course is designed for the highly motivated student committed to serious study in Photography. The course is considered to be an Advanced Placement course in terms of content, rigor, and creative efforts. The individual works of art created by students in this course are expected to be advanced examples of photographic processes and techniques showing a deep understanding of the concept with conscious use of supporting elements and principles of design, technical ability, craftsmanship, originality, and creativity. Through the creation of a conceptual portfolio of photographic work, students will strengthen their abilities to use unique and individualized high-order thinking skills such as creating, evaluating, analyzing, applying, understanding, and remembering in regard to the visual arts. Class sessions include individual and group critiques. It is recognized that students need to work outside the classroom and beyond scheduled class periods to prepare for the Advanced Placement Exam.
WHS	
Prerequisite:	Successful completion of both Photography 1 and 2 with final grades of C or higher, or Department Leader approval

0240 - Ceramics 1	
Credit(s) 1	This course explores basic clay building techniques including pinch, coil, slab, sculpture, and wheel throwing. Elements and principles of art and design are stressed in the construction of both functional and non-functional pieces. Surface decoration, under-glazing, and glazing techniques are included in the production of ceramic art.
SHS **WHS**	

0310 - Ceramics 2	
Credit(s) 1	This course is designed to help students refine and master basic clay-building skills and explore new possibilities with advanced functional, non-functional, wheel-thrown, and sculptural clay forms. Emphasis is placed upon the mastery of techniques through the individual direction in this art form, enabling the student to create a more advanced art piece.
SHS **WHS**	
Prerequisite:	Successful completion of Ceramics 1, final grade of C or better.

0311 - Advanced Clay	
Credit(s) 1	This course is designed to allow advanced potters and/or ceramic students to become more competent in throwing, and/or hand-building techniques, and concepts, and work on developing a personal expression in clay. Students will extend their knowledge of various ceramic techniques, experiment independently with new techniques, and develop a body of artwork. Because this class is designed to further the student's personal artistic expression and agenda, each student has the option to direct their own projects with guidance from the instructor. The assignments given will usually be open enough to allow the student's agenda to be executed. Writing and critiques are mandatory in this class.
SHS	
Prerequisite:	Successful completion of Ceramics 1, Pottery Wheel 1 or permission from the instructor and Department Head. Successful completion is defined as a final numerical score of 75 or above.

0230 - Jewelry and Metalsmithing 1	
Credit(s) 1	Students study basic design concepts and functions of fine metalworking using a variety of metals, alternative materials, tools, and techniques. Craftsmanship, design, creative expression, and cultural purpose are stressed in the production of a variety of jewelry and metalsmithing projects.
WHS	

0370 - Jewelry and Metalsmithing 2	
Credit(s) 1	Students refine and master fine metalworking skills using a variety of techniques that may include casting, enameling, cloisonne, and stone setting. Students will receive an in-depth look at the use of advanced techniques and materials for jewelry and sculptural wearables that may include wire, fibers, glass, wire wrapping, glass fusing, weaving, beadwork, and felting. To culminate their coursework, students will conduct a self-directed research project.
WHS	
Prerequisite:	Successful completion of Jewelry and Metalsmithing 1, final grade of C or better.

0263 - Mixed Media Art 1		
Credit(s) 0.5		This course explores the basic design concepts and functional considerations of fine craft production. Students refer to historical and contemporary examples of craft art from various cultures. Craftsmanship, design, creative expression, and cultural purpose are stressed in the production of a variety of craft projects.
SHS	**WHS**	

0264 - Mixed Media Art 2		
Credit(s) 0.5		This course is built on the foundation of its prerequisite, allowing for additional exploration of the relationship between media and craftsmanship. Design thinking, concepts, and function will be covered at a more challenging level through the production of several projects. Planning, process, and presentation are emphasized.
SHS	**WHS**	
Prerequisite:		Successful completion of Crafts or Mixed Media Art 1, final grade of C or better.

0340 - Sculpture 1		
Credit(s) 0.5		This course explores three-dimensional form and anatomy in sculpture while working with various media that may include clay, plasticine, plaster, soft stone, paper-mâché, found objects, and wood. Casting and armature support techniques are explored in the production of various three-dimensional forms.
SHS	**WHS**	

0388 - Sculpture 2	
Credit(s) 0.5	Students refine and master advanced sculpting techniques in the study of three-dimensional methods and materials. While using a variety of media, techniques, and tools, students produce a number of sculptural projects while developing individual preferences and style.
SHS **WHS**	
Prerequisite:	Successful completion of Sculpture 1, final grade of C or better.

0730 - Potter's Wheel 1	
Credit(s) 0.5	This course explores the basic techniques including throwing, centering, opening, raising walls, trimming, and finishing. Students create cups, bowls, vases, and plates using stamps, decorative techniques, and various glazing methods. Students may elect to repeat this course for a second semester to refine skills previously learned in the creation of larger, more challenging forms, both functional and sculptural.
SHS **WHS**	

0731 - Potter's Wheel 2	
Credit(s) 0.5	This course is for experienced students who have mastered basic wheel techniques and wish to create larger and more challenging forms, both functional and sculptural.
SHS **WHS**	
Prerequisite:	Successful completion of Potter's Wheel 1, with a final grade of C or better, or Department Head approval.

0443 - Studio Art 3D	
Credit(s) 1	This course explores three-dimensional form while working with various media that may include clay, plaster, papier-mâché, found objects, metal, and wood. Additive and subtractive techniques will be explored along with casting, armature, and kinetic designs. The objective of this course is to create a variety of projects that demonstrate a student's understanding of the elements and principles of design to familiarize students with art-making techniques and processes and to broaden students' understanding of diverse cultures and artistic traditions through art-making.
SHS **WHS**	
Prerequisite:	Successful Completion of 2 total credits, C or better in 3D coursework, or Department Head approval.

Gilma Ixtecoc Juarez - Stamford High School

Sophia Biancardi - Westhill High School

0462 - AP 3D Art and Design	
Credit(s) 1	This course is designed for the highly motivated student artist looking to define their own personal style while developing an exemplary portfolio for presentation. Collaborating with the art teacher and with the help of their peers, students will complete a variety of sketchbook journal activities, design challenges, and research investigations that will help to inform their thinking and inspire their decision-making. With studio practice using a range of materials, processes, and ideas, students will create a body of work that demonstrates the successful development of three-dimensional ideas, concepts, forms, and structures that apply a variety of design concepts. Through the exploration of a core question in a sustained investigation, students will also develop an in-depth series of works that show evidence of a high level of thought, concept, and skill. With the help of guided questions, students will document the processes involved in the creation of their sustained investigation work by developing written explanations of their decision-making, providing evidence of the successful synthesis of their ideas, concepts, experimentation, and revision in their three-dimensional art.
SHS / **WHS**	
Prerequisite	Successful completion of two total credits in 3D coursework, or Department Head approval

0431 - AP Art History	
Credit(s) 1	Do you enjoy looking at and talking about Art? Do you want to be inspired by historical and contemporary art, architecture and design? This Advanced Placement course is strongly recommended for all students with an interest in history, contemporary visual arts and any related studio areas. It is comparable to a college-level Art History survey course in which various techniques and materials used in creating sculpture, paintings, and
WHS	

	architecture from around the world, across time and cultures, from prehistory to the contemporary era, are covered. Through readings, lectures, discussions, museum visits and a variety of note-taking strategies, students will critically compare and contrast various works of art and architecture. Analysis and evaluation at a high level of thinking will be implemented, beyond rote memorization, while using descriptive visual vocabulary in speaking and writing.

0155 Mindful Art	
Credit(s) 1	In this unique course, students will explore the powerful combination of mindfulness and artistic expression. Mindful Art is designed to help you de-stress, become present in the moment, and create without the pressure of judgment. Through a variety of simple mindfulness exercises and artistic activities, you'll learn to trust the creative process and practice self-compassion. Classes will feature guided meditations, body scans, and breath work to center your focus and enhance your awareness of thoughts, sensations, and emotions. You'll engage in hands-on projects using both traditional and digital media, emphasizing the journey of creation rather than the final product. Throughout the course, you'll be invited to make art in a non-judgmental way, allowing for spontaneity and discovery. Journaling prompts and group discussions will encourage reflection and personal insights, fostering an environment of shared experience. By the end of the course, you can expect to see improvements in your emotional awareness, intuition, and overall sense of control over your thoughts and feelings. Join us for an enriching experience that celebrates creativity, mindfulness, and personal growth!
SHS **WHS**	

0156 - Art Partners	
Credit(s) 0.5	This course is for students who may not otherwise have the opportunity to work together and engage in collaborative art-making experiences. Borrowing from the Best Buddies model, through this course, typical high school students will learn about the benefits of a work environment that is inclusive of both typical adolescents and adolescents with ID, ASD, or other disabilities that may prevent them from fully engaging in a regularly scheduled visual arts course. Students with cognitive, developmental, and/or physical challenges will be paired with typical students, as role models, in the creation of engaging, hands-on art projects that are achievable for all participants. Team building, student agency, communication, and interpersonal skills will be emphasized. As with all visual art classes, the elements of art and principles of design will be incorporated into each project.
SHS **WHS**	

Lusimar Garcia - Westhill High School

0450 - UConn ECE Drawing 1	
Credit(s) 0.5	Students will gain an in-depth understanding of perspective, composition, proportion, value, and space through direct observation, concentration, and practice. This course provides students with an intensive drawing experience using a variety of media, techniques, and methods. Students will develop strategies while working from observation, which emphasizes weight, volume, and form. Still life objects, interior, and exterior spatial drawings are a key emphasis of this class. Individual and group critiques are used to inform and strengthen the student's awareness of key concepts and to allow dialogue about the various aesthetics, strategies, and methods used in the creation of the work.
SHS	
Prerequisite:	Successful completion of Drawing and Painting 1, final grade of C or better, or Department Head approval.

0464 - CT State Norwalk Two-Dimensional Design (SHS)	
Credit(s) 0.5	This introductory course focuses on the basic elements and principles of design such as line, texture, space, balance, unity, and scale. Students earn 3 college credits (GRA 1501) on their CT State Norwalk transcript upon successful completion of this course.
SHS	

0463 - CT State Norwalk Graphic Design 1: Skill and Principles (SHS)	
Credit(s) 0.5	An introductory course focusing on the fundamental nature, skills, and principles of graphic design. Students will learn about composition, communication, and technology. Classes consist of lectures, demonstrations, applied practice, and critiques. Students earn 3 college credits (ART 1210) on their CT State Norwalk transcript upon successful completion of this course.
SHS	

Fatima Villanueva Cruz - Westhill High School

0201 - IB Visual Arts SL 1 *0203 - IB Visual Arts HL 1*	
Credit(s) 1	This 11th-grade course is year one of a two-year course that focuses on three IB topics: Visual Arts in Context, Visual Arts Methods, and Communicating Visual Arts. Students in the SL course must engage in at least two art-making forms in addition to the Comparative Studies, a Process Portfolio, and an exhibition. The HL course requires students to produce a larger body of resolved works and to demonstrate a deeper consideration of how their resolved works communicate with the potential viewer. Students in HL must engage in at least three art-making forms. In addition to a larger body of work for their process portfolio and exhibition, the HL version of this course requires an additional section of reflection in their Comparative Study.
SHS	

0202 - IB Visual Arts SL 2 *0204 - IB Visual Arts HL 2*	
Credit(s) 1 **SHS**	This 12th-grade course is year two of a two-year course. In year two, SL students focus on their own independent study of their chosen theme, focus, and art concepts in greater depth. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with, and critically reflect upon a wide range of contemporary practices and media to develop their own personal artistic voice. Students in SL must engage in at least two art-making forms. Students will engage in assessments such as comparative studies, a process portfolio, and an exhibition. HL students are encouraged to produce a larger body of resolved works and to demonstrate a deeper consideration of how their resolved works communicate with the potential viewer. Students in HL must engage in at least three art-making forms.
Prerequisite:	Completion of IB Visual Arts 1

Shaylee Casahuaman - Anchor

Performing Arts - Theatre

The Theatre Arts program is designed for both the student who is interested in developing their artistic range for purposes of personal expression and the student who intends to pursue a career in theater. In conjunction with Drama Club activities, students are able to explore all fields of theater work.

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Course Offerings

IB Theatre Arts SL 1&2 (SHS) (1 credit)	IB Theatre Arts HL 1&2 (SHS) (1 credit)

3009 - IB Theatre Arts SL 1
3007 - IB Theatre Arts HL 1

Credit(s) 1	This 11th-grade course is year one of a two-year course. IB Theatre gives students the opportunity to make theatre as creators, designers, directors, and performers. It emphasizes both work as an individual and as part of an ensemble. Students in this course stage play texts, explore world theatre, and collaboratively create original theatre. In the HL course, students also perform theatre theory.
SHS	

3012 - IB Theatre SL 2
3008 - IB Theatre HL 2

Credit(s) 1	This 12th-grade course is year two of a two-year course. IB Theatre continues to give students the opportunity to make theatre as creators, designers, directors, and performers. It emphasizes both work as an individual and as part of an ensemble. Students in this course stage play texts, explore world theatre, and collaboratively create original theatre. Students engage in research and collaborative projects in this course. In the HL course, students also perform theatre theory. Students engage in research, and collaborative projects, and perform a solo theatre piece accompanied by a written report.
SHS	
Prerequisite:	Completion of IB Theatre SL1 or HL1

Xiomara Galvan- Westhill High School

Kristina Moskaliuk - Stamford High School

Performing Arts - Music

The music program offers a wide variety of individual and group listening, creating, and performing opportunities on a totally elective basis.

Music provides students with opportunities to participate in a number of performances as a member of a variety of dynamic and active groups.

A broad range of courses provides instruction in instrumental and choral settings, theory, music history, appreciation, and contemporary elements of music. These courses will enable students to experience group interaction and to develop a sense of dedication and commitment through music.

(For information on AP and UConn ECE courses, see pages 9-10)

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Course Offerings

Choral:
Concert Choir
Advanced Choir:
-Chamber Singers **(WHS)**
-Madrigal Singers (SHS)
Voice Class (0.5)

Instrumental:
Concert / Marching Band
Jazz Ensemble Honors
Orchestra
Percussion

Piano Instruction 1,2 (0.5 credit)
Guitar Instruction 1,2 (0.5 credit) (SHS)

Non-Performance:
Introduction to the Music Business (0.5 credit) **(WHS)**
Digital Music Production (0.5 credit)
AP Music Theory **(WHS)**

7210 - Concert Choir
*7211 - Concert Choir *ONLY AVAILABLE SEMESTER 1*

Credit(s) 1 - 7210 0.5 - 7211		This class explores the exciting world of ensemble singing, covering a wide range of music from different eras and cultures, including traditional, current, sacred, and secular pieces. Students will develop their vocal skills, learning proper technique, diction, tone production, and the basics of music theory. Daily practice and performances will enhance your understanding and proficiency. Active participation in class, rehearsals, and concerts is essential and will positively contribute to your overall success. The 0.5 option is Semester 1 only.
SHS	**WHS**	

Advanced Choir *7230 - Chamber Singers (WHS)* *7433 - Chamber Singers (WHS) *ONLY AVAILABLE SEMESTER 1* *7231 - Madrigal Singers (SHS)* *7432 - Madrigal Singers (SHS) *ONLY AVAILABLE SEMESTER 1*	
Credit(s) 1 - 7230 1 - 7231 0.5 - 7433 0.5 - 7432 **SHS** **WHS**	Chamber Singers/Madrigal Singers is an advanced performance group for vocalists. Students will explore an advanced musical repertoire from different eras and cultures, including traditional, current, sacred, and secular pieces. Students in these courses will continue to develop and hone their vocal skills utilizing proper technique, diction, tone production, and music theory. Active participation in class, rehearsals, and concerts is essential in positively contributing to the overall success of the student. Students will be chosen for this select group of singers through a vocal audition and with the director's approval. The 0.5 option is offered only for Semester 1.
Prerequisite	Vocal audition and director approval.

7470 - Voice Class (SHS)	
Credit(s) 0.5 **SHS** **WHS**	This class is designed to help you to improve your singing skills from scratch. With a focus on essential singing techniques like breathing and developing your tone, students can explore multiple styles of music, from the classics to the current music of today. This class is for any student interested in increasing their vocal abilities, whether for fun or to explore their interest in being a part of a performance group.

Jaasir Southerland - Anchor

7220 - Concert/Marching Band *7225 - Concert/Marching Band *ONLY AVAILABLE SEMESTER 1*	
Credit(s) 1 - 7220 **0.5 - 7225**	This performance-based class is dedicated to experienced instrumental music students. Participation in both Concert and Marching band in the fall is mandatory. Students will focus on mastering tone, intonation, rhythm, tempo, dynamics, articulation, harmony, and phrasing through a variety of band literature. Marching Band season kicks off in July with a required Band Camp experience. Participation in school and community events is a key part of the band experience. Students should be able to read music and have at least one year of middle school band experience. Students will have the opportunity to take their musical skills to the next level and be a part of an amazing team. Active participation in class, rehearsals, and concerts is essential in positively contributing to the student's overall success. The 0.5 option is Semester 1 only because performance preparation begins at the start of semester 1.
SHS **WHS**	

7510 - Jazz Ensemble - Honors	
Credit(s) 1	Jazz Ensemble is an advanced class where students delve into the world of jazz, combining music theory and history in a hands-on approach. Students will study and rehearse a diverse range of jazz music, exploring the unique melodies, harmonies, rhythms, and styles that define the genre. Daily improvisation sessions will be taught to help students develop their solo skills. This is a performance-based class, requiring active participation at rehearsals and concerts. Students will be chosen for this advanced performance group by audition and director approval.
SHS **WHS**	
Prerequisite	By audition and director approval

7120 - Orchestra *7125 - Orchestra *ONLY AVAILABLE SEMESTER 1*	
Credit(s) 1 - 7120 **0.5 - 7125**	Orchestra is a performance-based class open to all students interested in continuing to play a string instrument. Students will refine their playing skills through diverse repertoire, exploring various musical styles and techniques. Additionally, students can deepen their understanding of music theory, history, and performance practices. Current band students (wind, brass, and percussion) are eligible for auditions, with director approval, to round out the orchestra as an additional non-credit opportunity. Active participation in class, rehearsals, and concerts is essential in positively contributing to a student's overall success. The 0.5 option is Semester 1 only.
SHS **WHS**	

7700 - Piano Instruction 1 *7710 - Piano Instruction 2*	
Credit(s) 0.5 **SHS** **WHS**	These courses are designed to introduce and further a student's experience with playing piano. Students will learn and expand on how to read musical notation for the piano while playing music from different cultures and varying styles. Students will have the opportunity to work alone and in groups. Additionally, students will utilize computer technology to enhance their learning and evaluate their performance. No previous experience is necessary. Students will have access to the keyboard lab.
Prerequisite	7710 - Students who pass Piano 1 with a final grade of C or higher have the option to take piano 2.

7720 - Guitar Instruction 1 (SHS) *7730 - Guitar Instruction 2 (SHS)*	
Credit(s) 0.5 **SHS**	These courses are designed to introduce and further your journey with a musical instrument, specifically the guitar. Get ready to take a deep dive into chords, rhythm, and notation fundamentals. In this course, students will explore a diverse range of musical styles and cultures while honing their performance skills. No previous experience is necessary. Guitars will be provided for student use.
Prerequisite	7730 - Students who pass Guitar 1 with a final grade of C or higher have the option to take Guitar 2.

7750 - Percussion *7751 - Percussion *ONLY AVAILABLE SEMESTER 1*	
Credit(s) 1 - 7750 **0.5 - 7751** **SHS** **WHS**	This is a performance-based class dedicated to advancing instrumental music in percussion. Students must be able to read music and have at least one year of middle school band experience. Through this course, students will increase their proficiency in music reading skills, musicality, and percussion performance skills. As an integral part of both Marching (fall) and Concert Bands, participation in both is required. Additionally, students will be able to participate in performances in school and throughout the community. The 0.5 option is Semester 1 because performance preparation begins at the start of semester 1.

7740 - Introduction to the Music Business (WHS)	
Credit(s) 0.5	Are you passionate about music? This course is your gateway to exploring the exciting job opportunities that can be found in the music and entertainment industry. Whether you are a musician or just a music enthusiast, you will be able to gain insight into the skills and training needed for a successful career in the music field. Students will be given the opportunity to engage with guest lecturers, go on field trips, and work on both research-based and hands-on projects. Students will have the chance to dive into the world of musical careers and find their path to success.
WHS	

1960 - Digital Music Production		
Credit(s) 0.5		In this hands-on class, students will compose and produce their own music and then learn how to record or "master" their music into a digital file. Students will dive into various recording and production software, using these tools to bring their original compositions to life. Throughout the course, students will also learn the fundamentals of music and basic keyboard skills. Students will be able to unleash their creativity and make their musical ideas a reality.
SHS	**WHS**	

752 - AP Music Theory (WHS)	
Credit(s) 1	This course is designed as an introductory college course in music theory and is intended for the serious music student. It develops a student's ability to compose, analyze, and sight-sing. It addresses advanced aural and compositional skills using both listening and written exercises. Students must read music and demonstrate proficiency on an instrument or voice.
WHS	
Prerequisite	Instructor approval

Audrey Cius- Anchor

SCIENCE

The State of Connecticut and the Stamford Public Schools' frameworks foster the development of *interest* in global issues and the ability to collect, analyze, and use data to explore and explain related science concepts for students in grades 9 and 10.

For students in grades 11 and 12, the focus of learning shifts to the development of *deep understanding* of science concepts and principles and to the preparation for future studies and careers. Interactive boards and web-based resources are used extensively in every course.

(For information on Honors, AP, IB, and UConn ECE courses see pages 9-10)

***All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Graduation Requirement 3 Credits - Possible Course Sequences			
Grade 9	**Grade 10**	**Grade 11**	**Grade 12**
Integrated Science or Integrated Sci Honors	Biology or Chemistry Honors Biology or Honors Chemistry	Chemistry or Other Electives Honors Chemistry, Biology, Physics or Other AP/UConn ECE/IB Courses	Physics or Other Electives Other AP/UConn ECE/IB Courses or Electives

Course Offerings

Integrated Science
Integrated Science Honors
Biology
Honors Biology
Chemistry
Honors Chemistry
Physics
Honors Physics
Foundations of Science (SHS)

AP Courses:
AP Biology (WHS)
AP Chemistry (WHS)
AP Physics 1
AP Physics C Mechanics, Electricity, and Magnetism (WHS)
AP Environmental Science
AP Capstone Seminar (WHS)

UConn ECE Courses:
UConn ECE Biology 1107 (SHS)
UConn ECE Biology 1108 (SHS)
UConn ECE Chemistry 1127Q (SHS)
UConn ECE Chemistry 1128Q (SHS)
UConn ECE Physics 1201Q
UConn ECE Environmental Science
UConn ECE Applied Mechanics 1 (SHS)

IB Courses:
IB Chemistry SL 1&2 (SHS)
IB Chemistry HL 1&2 (SHS)
IB Physics SL 1&2 (SHS)
IB Biology SL 1&2 (SHS)
IB Biology HL 1&2 (SHS)
IB Environmental Systems & Societies SL 1&2 (SHS)

Electives:
Environmental Science
Earth Systems
Space Systems
Human Physiology
Consumer Chemistry
Marine Biology
Topics in Forensic Science
Forensic Science
Robotics 1 (WHS)
Robotics 2 (WHS)
Independent Study Science Teaching
Science Research
Public Health (WHS)
Genetics (WHS)
Bioethics (WHS)
Science of Landscape Design (WHS)

8372- Integrated Science *8372 - Honors* *8372- Sheltered*	
Credit 1	Integrated Science is a comprehensive course for all 9th-grade students designed to further their understanding of scientific principles while equipping them for success in their academic and professional lives. Topics covered include measurement conversion, model creation, use of scientific methods, interpretation of atoms, identification of the properties of common compounds, the impact of force on linear motion, and the study of various physical phenomena and forms of energy. This NGSS aligned freshman course prepares students to succeed in future science pathways.
SHS / **WHS**	

8110 - Biology *8060 - Sheltered* *8121 - Honors*	
Credit (s) 1	This course explores biological principles in a comprehensive approach. The course examines: ecology, cell biology, genetics, evolution, microorganisms, plants, vertebrates, and invertebrates. Students' understanding of biology is fostered through laboratory investigations, problem-solving, and critical thinking activities. Laboratory investigations are an integral part of this course. As a result of this course, students explore and explain concepts of biology and its related applications.
SHS (except 8362) / **WHS**	
Prerequisite:	One credit of high school science **Honors:** B average in science

8362 - AP Biology	
Credit (s) 2	This course is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.
SHS / **WHS**	
Prerequisite:	Biology, Chemistry and two credits of mathematics with a minimum grade of B

8361 - UConn ECE Biology 1107	
Credit(s) 1	This course is a comprehensive 4 credit college laboratory science, prerequisite to further study in Biology, and transferable to most colleges and universities at their discretion. Topics investigated include: Biochemistry, Enzymes, Osmosis, Cells, Prokaryotes, Respiration, DNA, Protein Synthesis, Molecular Genetics, Cell Division, Reproduction and Development, Anatomy and Physiology, Genetics. Students will participate through collaborative laboratory investigations and problem-solving, from which skills they develop will be useful in the workplace, and necessary to be successful in further study at higher levels.
SHS	
Prerequisite:	Two credits of laboratory science including Biology and Chemistry, along with Algebra 2 (Honors level recommended)

8363- UConn ECE Biology 1108	
Credit(s) 1	This course is a comprehensive 4 credit college laboratory science, prerequisite to further study in Biology, and transferable to most colleges and universities at their discretion. Topics investigated include: Genetics, Evolution, Population Genetics, Speciation, Molecular Evolution, Photosynthesis, Ecosystem Productivity, Plant Evolution, PlantAnatomy, and Physiology, Animal Evolution, Animal Behavior, Protista, Fungi, Biosphere, Community Ecology, Population Ecology, Restoration Ecology Students will participate through collaborative laboratory investigations and problem-solving, from which skills they develop will be useful in the workplace, and necessary to be successful in further study at higher levels.
SHS	
Prerequisite:	Two credits of laboratory science including Biology and Chemistry, along with Algebra 2 (Honors level recommended)

Abigail Loayza - Stamford High School

8210 - Chemistry *8221 - Sheltered* *8280 - Honors*	
Credit(s) 1	This course explores chemical principles in a comprehensive approach. The course examines: matter and energy, atomic structure, periodicity, ionic and covalent compounds, chemical equations, stoichiometry, theory of gases, solutions and chemical equilibrium, acids and bases, reaction rates, electro-chemistry, and nuclear chemistry. Students' understanding of chemistry is fostered through laboratory investigations, problem-solving, and critical thinking activities. Laboratory investigations are an integral part of this course. As a result of this course, students develop a deeper understanding of chemistry and its related applications.
SHS (except 8422) / **WHS (except 8424)**	
Prerequisite:	Integrated Math II, and one credit of high school science. **Honors:** B Average in science and mathematics, Integrated Math II, and one credit of high school science.
Corequisite:	Integrated Math III

8422 - AP Chemistry	
Credit(s) 2	This course is a comprehensive college laboratory science, a prerequisite to further study in Chemistry, and transferable to most colleges and universities at their discretion. Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions. Quantitative measurements illustrating the laws of chemical combination will take place in the lab.
SHS / **WHS**	
Prerequisite:	Two credits of laboratory science including Chemistry (Honors Chemistry is recommended) and two credits of mathematics
Corequisite:	Integrated Math III

8424 - UConn ECE Chemistry 1127Q	
Credit(s) 1	Offered Fall only. This course is a comprehensive 4 credit college laboratory science, a prerequisite to further study in Chemistry, and transferable to most colleges and universities at their discretion. Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions.
SHS	
Prerequisite:	Integrated Math II, one credit of high school science
Corequisite:	Integrated Math III

8421 - UConn ECE Chemistry 1128Q	
Credit(s) 1 **SHS**	Offered Spring only. This course is a comprehensive 4 credit college laboratory science, a prerequisite to further study in Chemistry, and transferable to most colleges and universities at their discretion. Topics include Equilibrium, thermodynamics, nuclear chemistry, and kinetics. Properties of some of the more familiar elements and their compounds. Equilibrium in solutions and reactions of the common cations and anions in the laboratory component.
Prerequisite:	A student must pass CHEM 1127Q with a grade of a "C" or higher to continue on to CHEM 1128Q.
Corequisite:	Integrated Math III

8310 - Physics *8400 - Honors*	
Credit(s) 1 **SHS** **WHS**	This course explores classical and modern physics principles in a comprehensive approach. The course examines: Newtonian mechanics, heat, kinetic theory and thermo-dynamics, electricity and magnetism, waves and optics, historical astronomy, and nuclear physics. Students' understanding of physics is fostered through laboratory investigations, problem-solving, and critical thinking activities. Laboratory investigations are an integral part of this course. As a result of this course, students develop a deeper understanding of physics and its related applications.
Prerequisite:	Algebra 2 and two credits of high school science

8384 - AP Physics 1	
Credit(s) 1 **SHS** **WHS**	This course is the equivalent of a first-semester college course in algebra-based physics. Topics include: Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves, and sound. It will also introduce electric circuits, fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Inquiry-based investigations are emphasized. These investigations are designed to foster student engagement in the practice of science through experimenting, analyzing, making conjectures and arguments, and solving problems in a collaborative setting, where they direct and monitor their progress toward an academic goal. Laboratory investigations are an integral part of this course.
Prerequisite:	Algebra 2 and two credits of high school science, B Average in science and mathematics recommended

8390 - UConn ECE Physics 1201Q	
Credit(s) 1	This college non-calculus-based physics course is designed to provide a strong physics foundation for more advanced courses in college science. The topics covered include classical dynamics, rigid-body motion, harmonic motion, waves, fluids, and thermo-dynamics, as well as other selected topics. Laboratory work is a key component of the course and offers fundamental training in precise measurements. Students must have a very strong science and mathematics background to ensure successful comprehension and completion of this course.
SHS WHS	
Prerequisite:	Algebra 2 and two credits of high school science, B Average in science and mathematics recommended

8395 - AP Physics C - Mechanics, Electricity, and Magnetism	
Credit(s) 2	This course meets the objectives of a rigorous course in first-year calculus-based Physics at a college level. The first part of the course delves deeply into Newtonian Mechanics, including Kinematics, Newton's laws, Work, Energy, Momentum, Gravitation, Rotation, and Oscillation. The second part of the course delves deeply into calculus based Electricity and Magnetism. It explores concepts such as electrostatics, conductors, capacitors and dielectrics, electric circuits, magnetic fields, and electromagnetism. Students will do hands-on laboratory work and in-class activities to investigate phenomena and use calculus to solve problems.
SHS WHS	
Prerequisite:	Two credits of high school science, Calculus or concurrent enrollment in Calculus.

8379 - UConn ECE Applied Mechanics 1	
Credit(s) 1	This is a college-level course focusing on the fundamentals of statistics using vector methods. Topics include: resolution and composition of forces; equilibrium of force systems; analysis of forces acting on structures and machines; centroids; and moment of inertia. Laboratory investigations are an integral part of this course.
SHS	
Prerequisite:	Two credits of high school science, Calculus or concurrent enrollment in Calculus

8740 - AP Environmental Science *8741 - UConn ECE*	
Credit(s) 1 **SHS** **WHS**	This course is planned to meet the objectives of a rigorous course in first-year environmental science at the college level. Topics include: interdependence of earth's systems, the living world, population, land and water use, energy resources and consumption, pollution, and global change. Laboratory investigations are an integral part of this course. Each student completes a lab notebook or portfolio of lab reports.
Prerequisite:	Biology and Chemistry

8101 - Foundations of Science *(ML Course)*	
Credit(s) 1 **SHS**	This course is for New Arrivals English Learners develops a strong foundational background on the principles of several scientific specialties. Basic science concepts are explored, as are the principles underlying the scientific method and experimentation.

8750 - Environmental Science	
Credit(s) 0.5 **SHS** **WHS**	This course explores the relationships that exist between people and the environment. This course examines: scientific analysis, interdependence of earth systems, human population dynamics, renewable and non-renewable resources, environmental quality, global changes, and their consequences, environment, and society, and choices for the future. Laboratory and field investigations are an integral part of this course.
Prerequisite:	One credit of high school science

8930 - Earth Systems	
Credit(s) 0.5 **SHS** **WHS**	This course explores earth science in a comprehensive approach. The course examines: the dynamic forces that shape the earth, weather and the oceans, and the geophysical earth. Students' understanding of earth science is fostered through laboratory investigations, problem-solving, and critical thinking activities. Laboratory investigations are an integral part of this course. As a result of this course, students develop a deeper understanding of earth science and related applications.
Prerequisite:	One credit of high school science

8940 - Space Systems	
Credit(s) 0.5	This course explores space science in a comprehensive approach. The course examines: the Earth and its relationship to the solar system and the universe. Students' understanding of space science is fostered through laboratory investigations, problem-solving, and critical thinking activities. Laboratory investigations are an integral part of this course. As a result of this course, students develop a deeper understanding of the Earth and its relationship to space and related scientific applications.
SHS **WHS**	
Prerequisite:	One credit of high school science

8200 - Human Physiology	
Credit(s) 1	This course, for 11th and 12th-grade students, explores the structure and function of the human body. This course examines: body organization, systems for support and movement, systems of communication, control, and integration, transportation, respiration, nutrition, excretion, reproduction, defense, and adaptation. This course satisfies the requirement of a laboratory science for college admission. Laboratory investigations are an integral part of this course.
SHS **WHS**	
Prerequisite:	Biology and Chemistry but can be concurrent enrollment in Chemistry

8222 - Consumer Chemistry	
Credit(s) 0.5	This course explores the various applications of consumer chemistry. Students perform lab experiments and complete long-term projects that involve student research and collaborative group work. This course examines the study of cosmetics /dyes/cleaners, food/biochemistry, pharmaceuticals, and nanotechnology. Laboratory investigations are an integral part of this course. Students work independently and as teams to develop, communicate, and explain how chemistry impacts people in society.
SHS **WHS**	
Prerequisite:	One credit of high school science

8760 - Marine Biology	
Credit(s) 0.5 **SHS** **WHS**	This course investigates the marine environment of Long Island Sound. The course includes the biological, physical, and chemical factors of the marine environment, and includes marine diversity and ecology. Students' understanding of marine biology is fostered through laboratory investigations and field experiences that include the collection and identification of plant and animal populations from aquatic samples. As a result of this course, students develop a deeper understanding of the concepts and principles of marine biology and its related applications. Laboratory investigations are an integral part of this course.
Prerequisite:	Biology

1706 - Robotics 1	
Credit(s) 1 **WHS**	This course introduces students to robotics and robot kinematics and will be involved in the development, building, and programming of robots. Students will apply the fundamentals of electronics and networking to build a remotely controlled robot that can perform specific tasks. Students will have the opportunity to participate in a Robotics Competition.

1705 - Robotics 2	
Credit(s) 1 **WHS**	This course is an advanced study of robotics and robot kinematics. Students will be involved in the development, building, and programming of robots. Students will apply the fundamentals of electronics and networking to build a remotely controlled robot that can perform specific tasks. Students will have the opportunity to participate in robotics competitions.
Prerequisite:	Robotics 1, knowledge of a programming language is recommended

8513 - Forensic Science	
Credit(s) 1 **SHS** **WHS**	This course explores the various scientific applications of solving crimes in a comprehensive approach. Students perform numerous laboratory techniques including some that may be referenced on television shows. This course examines analyzing fingerprints, bodily fluids, DNA, firearms and ballistics, arson and explosives, natural and synthetic fibers, documents, glass fragments, and case studies. Laboratory investigations are an integral part of this course. Students work independently and as teams to develop, communicate and defend scientific arguments based on their findings to solve crime scene investigations and to analyze case studies.
Prerequisite:	Two credits of high school science

8511 - Topics in Forensic Science	
Credit(s) 0.5 **SHS** **WHS**	This course explores the various scientific applications of solving crimes. Students perform numerous laboratory techniques including some that may be referenced on television shows. This course examines the study of legal issues, trace evidence, impression evidence, bodily fluids, documentation, the psychology of a criminal, and the processing of a crime scene. Laboratory investigations are an integral part of this course. Students work independently and as teams to develop, communicate, and defend scientific arguments based on their findings to solve crime scene investigations and to analyze case studies.
Prerequisite:	One credit of high school science

8431 - Independent Study Science Teaching	
Credit(s) 1 **SHS** **WHS**	This course is designed for juniors and seniors in good academic standing who have a possible interest in teaching (especially science) or working in social services. They will work with students, under the guidance of the classroom teacher, in Physical Science and Biology classrooms (including Bilingual, Academic, and Sheltered classes) to create an environment that creates a growth mindset in regards to science and that significantly improves student achievement.
Prerequisite:	***Administrative approval required.***

8501 - Science Research	
Credit(s) 1 **SHS** **WHS**	Science Research is a one-credit course where students: apply the methods of scientific investigation to identify and solve problems in science, technology, engineering, and/or mathematics; develop questions based on data or research, plan experimental design, and analyze data to form conclusions; work individually or as part of a team to complete a research project. Throughout the course, students will complete a science research project on a more professional level than they may have done in the past. Ideas and research techniques will be explored and students will design and implement several smaller research projects in addition to one major scientific investigation.
Prerequisite:	Successful completion of two credits of Science

8830 - Public Health	
Credit(s) 1	This course is designed to introduce students to the history, biological science, and careers in public health. This course explores communicable and non-communicable diseases and their impact on global health. Students will explore causes and types of disease, modes of disease transmission, epidemiology, and medical and community response. The main topics of study include infectious diseases including viruses & bacteria that lead to pandemics and plagues, non-communicable disease and their societal impact, history of widespread diseases, careers in public health, and public policy that impact aspects of the community such as workforce health and safety. Research projects are an integral part of this course. This course is appropriate for any student who is considering careers in the medical health care field.
WHS	
Prerequisite:	One credit of high school science

8331 - Genetics	
Credit(s) 0.5	This course for 11th and 12th-grade students is designed to introduce the history, science, and practical side of human genetics. Students will be exposed to many different aspects of the field and will gain experience in many of its main tools—DNA structure, protein synthesis, patterns of inheritance, pedigree analysis, human genetic disorders, population genetics, and genetic technologies such as RFLP analysis, GMOs, DNA fingerprinting, etc.
WHS	
Prerequisite:	One credit of high school science

8470 - Bioethics	
Credit(s) 0.5	This course examines the reasonableness of human choices and actions in situations such as euthanasia, surrogacy, and organ donation. The course will investigate how problems in bioethics can be approached from a variety of perspectives as well as the complexities of ethical decision-making. Students will be expected to merge scientific and philosophical thinking when evaluating the morality of choices. Finally, bioethical practices of different cultures will be examined.
WHS	
Prerequisite:	One credit of high school science

8756 - Science of Landscape Design	
Credit(s) 1	This project-based course is designed to introduce students to the landscape design process. Learn how to choose plants appropriate for the zone (temperature range), light, water, and soil conditions. What plants pair well with others. Create garden plans by measuring a garden space and drafting a base plan. Projects are an integral part of this class. This class is appropriate for anyone who wants to do landscaping, enjoys gardening, and/or prefers project-based classes.
WHS	
Prerequisite:	One credit of science and completion of Integrated Math 1

Hillary Suarez - Westhill High School

Alternatives to Dissection

Dissection is one of many instructional methods used in life science courses. Students may request alternatives to dissection. Alternatives include such materials as videos, computer programs, films, models, transparencies, charts, diagrams, dissecting microscopes, and textbook overlays. If alternatives to dissection are requested, teacher assistance will be available at all times, and no grades may be adversely affected because alternatives are requested.

MATH

The mathematics department is organized to develop and implement a curriculum that will give every graduate of Stamford Public Schools the knowledge, understanding, and skills they will need in mathematics to compete in the 21st-century world economy.

Instruction is varied and includes teacher-centered, group work, inquiry-based, and individual learning, Interactive boards and graphing calculators are used extensively in every course. Most classes also include computer software applications and web-based resources.

Homework is given regularly and is expected to be completed. Tests and quizzes model homework and classwork. Both homework and assessments play a vital role in the teacher evaluations of students.

(For information on Honors, AP, IB, and UConn ECE courses, see pages 9-10)

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Graduation Requirement 3 Credits - Possible Course Sequences			
Grade 9	**Grade 10**	**Grade 11**	**Grade 12**
Integrated Math I Honors Integrated Math I with Math Lab Integrated Math II Integrated Math II Honors	Integrated Math II Integrated Math II Honors Integrated Math III Integrated Math III Honors	Integrated Math III Integrated Math III Honors Precalculus AP Precalculus AP Calculus	Precalculus AP Precalculus AP Calculus Multivariable Calculus

Course Offerings

Integrated Math I Honors
Integrated Math I with Math Lab
Integrated Math II
Integrated Math II Honors
Integrated Math III (replaced Algebra 2)
Integrated Math III Honors (replaced Algebra 2 Honors)
Precalculus

AP Courses:
AP Precalculus
AP Calculus AB
AP Calculus BC
AP Statistics

UConn ECE Courses:
UConn ECE Statistics **(WHS)**
UConn ECE Calculus I
UConn ECE Calculus II

IBDP Courses:
IB MYP Math 9 H **(SHS)**
IB MYP Integrated Math II H **(SHS)**
IB MYP Integrated Math III H **(SHS)**
IB MYP Precalculus H **(SHS)**
IB Mathematics: Analysis and Approaches HL 1&2 **(SHS)**
IB Mathematics: Analysis and Approaches SL 1&2 **(SHS)**
IB Mathematics: Applications and Interpretations SL 1&2 **(SHS)**

Electives:
Applications of Algebra & Geometry
Foundations Math (ML) **(SHS)**
Statistics and Probability
Multivariable Calculus**(WHS)**
Independent Study Math Teaching **(WHS)**

Specialized Program
Math 9, 10, 11, and 12
Math Applications
Math Center

6218 - Integrated Math I Honors		
Credit(s) 1		This honors course examines the properties of real numbers, linear equations, inequalities, piecewise equations, linear programming, systems of equations and applications, dimension and measurement, and transformations. Emphasis is on algebraic, geometric, and graphic representation of these topics through critical thinking activities as well as the use of computers and graphic calculator technology. Students focus on problem-solving and real-life applications.
SHS	**WHS**	

6228 - Integrated Math I with Math Lab *6228 - Sheltered*		
Credit(s) 2		This course combines the study of Integrated Math I topics—including real numbers, linear equations, systems of equations, transformations, and more—with targeted support to ensure student success. Through problem-solving, real-world applications, and the use of technology, students develop both conceptual understanding and procedural fluency. The Math Lab component offers additional support tailored to ninth graders, reinforcing their understanding and skills. This combined approach builds a solid foundation for success in Integrated Math I and future math courses.
SHS	**WHS**	

6219 - Integrated Math II *6219 - Honors* *6218 - Sheltered*		
Credit(s) 1		This course builds upon the concepts learned in Integrated Math 1, focusing on deepening understanding of polynomials, quadratic functions, geometry, trigonometry, and probability concepts. The course is aligned with Common Core State Standards and emphasizes problem-solving skills and real-world applications, fostering a deeper appreciation for the interconnected nature of mathematics. This course offers a rich and engaging learning experience, equipping students with the mathematical foundation and skills necessary for success in subsequent math courses and related fields.
SHS	**WHS**	
Prerequisite:		Integrated Math I **Honors:** Integrated Math I with a minimum grade of B

6220 - Integrated Math III *6210 - Honors* *6502 - Sheltered*	
Credit(s) 1 **SHS** **WHS**	This course, aligned with Common Core standards, builds upon the foundational knowledge students gain in earlier Integrated Math courses. This course focuses on the study of functions, starting with quadratic functions and progressing through polynomial, radical, exponential, logarithmic, rational, and trigonometric functions. Students also explore sampling methods, experiments, and statistical inference. Emphasis is placed on critical thinking, real-world problem solving, and integrating technology, preparing students for success in advanced math courses and related fields.
Prerequisite:	Integrated Math II **Honors:** Integrated Math II with a minimum grade of B

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6320 - Precalculus	
Credit(s) 1 **SHS** **WHS**	This course examines the properties of functions and modeling, radical exponents and functions, exponential and logarithmic functions, trigonometric analysis, polar coordinates, and complex numbers. Emphasis is on algebraic, geometric, and graphic representation of these topics through critical thinking activities as well as the use of computers and graphic calculator technology. Students focus on problem-solving and real-life applications as well as skills required for the SAT examination throughout the year.
Prerequisite:	Algebra 2

6331 - AP Precalculus	
Credit(s) 1 SHS WHS	This course equips students with tools to analyze real-world scenarios through mathematical modeling and functions. The course emphasizes mastering multiple representations—graphical, numerical, verbal, and analytical—while constructing and validating function models for various contexts. Students explore key function behaviors, develop skills in selecting and applying mathematical models, and strengthen procedural fluency. Designed to prepare students for advanced math and science courses, AP Precalculus builds foundational knowledge for careers in STEM and data-driven fields
Prerequisite:	Algebra 2

6290 - AP Calculus AB	
Credit(s) 1 SHS WHS	This course develops students' understanding of fundamental calculus concepts and provides experience with methods and applications. The course focuses on the big ideas of calculus, such as modeling change, approximation and limits, and analysis of functions. Through a multi-representational approach, concepts, results, and problems are explored graphically, numerically, analytically, and verbally, emphasizing connections among these representations.
Prerequisite:	Precalculus with a minimum grade of B

6291 - AP Calculus BC	
Credit(s) 2 SHS WHS	This intensive calculus course examines the advanced properties of functions, limits, and continuity. Techniques of differential and integral calculus and concepts of sequences and series will be developed and applied to algebraic, trigonometric, exponential parametric, and polar functions. Student experiences focus and emphasize on problem-solving and real-life applications through critical thinking activities as well as the use of computers and graphing calculator technology.
Prerequisite:	Precalculus with a minimum grade of B

6360 - AP Statistics *6361 - UConn ECE (WHS)*	
Credit(s) 1 **SHS** **WHS**	This intensive college-level non-calculus-based statistics course examines four broad conceptual themes: (1) Exploring data: observing patterns and departures from patterns; (2) Planning a study: Deciding what and how to measure; (3) Anticipating patterns: producing models using probability and simulation; and (4) Statistical inference: confirming models. Student experiences focus and emphasize problem-solving and real-life applications through critical thinking activities as well as the use of computers and graphic calculator technology.
Prerequisite:	Algebra 2

6341- UConn ECE Calculus I (Math 1131Q)	
Credit(s) 1 **SHS** **WHS**	This course is an introduction to differential and integral calculus, which is the mathematical language used in any science concerned with dynamically changing quantities. The main topics it covers are limits, derivatives, integrals, the Fundamental Theorem of Calculus, and some basic applications of these ideas.
Prerequisite:	Precalculus with a minimum grade of B

6343- UConn ECE Calculus II (Math 1132Q)	
Credit(s) 1 **SHS** **WHS**	This course covers transcendental functions, formal integration techniques, polar coordinates, infinite sequences and series, and parametric equations. Emphasis is placed on applying these concepts to solve problems in the physical sciences and engineering.
Prerequisite:	UConn ECE Calculus I (MATH 1131Q) or advanced placement credit for calculus (a score of 4 or 5 on the Calculus AB exam or a score of 3 on the Calculus BC exam). Recommended preparation: A grade of C- or better in MATH 1131.

6764 - Applications of Algebra and Geometry	
Credit(s) 1 **SHS** **WHS**	This course is designed to prepare students for success in Integrated Math III. This course emphasizes algebraic and geometric concepts that form the foundation for advanced topics, including polynomial, radical, rational, trigonometric, exponential, and logarithmic functions. Students will deepen their understanding of mathematical principles and develop problem-solving skills through real-world applications and data analysis. By mastering these essential topics, students will build confidence and competence for future mathematical studies.

6181 - Foundations Math (ML Course)	
Credit(s) 1 SHS	This course provides academic support for new arrival English learners who need to develop a strong number sense by seeing connections among operations and numbers, making reasonable estimates, and spotting unreasonable answers. Instruction focuses on the use of hands-on activities, manipulatives, and real-life applications. Students develop an understanding of proportional relations in connection to linear functions.

6861 - Statistics and Probability		
Credit(s) 1		This course examines mathematical concepts required for taking trigonometry at college. Emphasis is on algebraic, geometric, and graphic representation of these topics through critical thinking activities as well as the use of computers and graphic calculator technology. Students focus on problem-solving and real-life applications as well as skills required for the SAT examination throughout the semester.
SHS	WHS	
Prerequisite:		Integrated Math II

6342 - Multivariable Calculus	
Credit(s) 1 WHS	Multivariable Calculus is a rigorous second-year course in college-level calculus. This course provides an in-depth study of vectors and the calculus of several variables for the student who has successfully completed Calculus BC. The successful student will bring to the course a solid understanding of the concepts of first-year calculus as well as the ability to approach complex problems and applications with insight, imagination, and persistence. Major topics will include vector problems and analysis, functions of two or more variables and their partial derivatives, and multiple integrals.
Prerequisite:	A score of 4 or higher on the AP Calculus BC exam or successful completion of ECE Calculus I and II

6530 - Independent Study Math Teaching (WHS)	
Credit(s) 1 WHS	This course is designed for juniors and seniors in good academic standing who have a possible interest in teaching (especially math) or working in social services. They will work with students, under the guidance of the classroom teacher, in Integrated Math I, II, and II classrooms (including Bilingual, Academic, and Sheltered classes) to create an environment that creates a growth mindset in regards to math and that significantly improves student achievement.
Prerequisite:	Administrative approval required

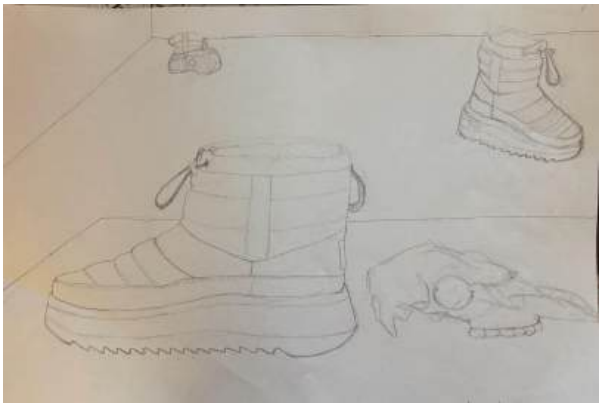
Monserrat Cebada - Stamford High School

9142/9153- Math 9 *9146/9211 - Math 10* *9139/9217 - Math 11* *9158/9221 - Math 12* *Administrative approval required*	
Credit(s) 1	This course is an activity-based mathematics course focusing on pre-algebra and pre-geometry skills. It is designed to engage student involvement in problem-solving, reasoning, communications, and mathematical connections, as well as continued reinforcement and application of computation skills. Students apply the skills learned to everyday problem-solving and real-life applications.
SHS **WHS**	

695 - Math Center *Administrative approval required*	
Credit(s) 1	This course is designed to support students in improving math fluency, problem-solving, and reasoning skills. Emphasis is on algebraic, geometric, and graphic representation of topics using individual and group activities as well as targeted computer-based learning. Throughout the year, students focus on the real-life applications of math concepts and skills.
SHS **WHS**	

6581 - Math Applications *Administrative approval required*	
Credit(s) 1	This course is designed to support students in improving math fluency, problem-solving, and reasoning skills. Emphasis is on algebraic, geometric, and graphic representation of topics using individual and group activities as well as targeted computer-based learning. Throughout the year, students focus on the real-life applications of math concepts and skills.
SHS **WHS**	

Kaylee Prill - Stamford High School



Anna Nadirashvili - Westhill High School

Yana Kostiv - Westhill High School

CAREER & TECHNICAL EDUCATION
TECHNOLOGY

The Technology program provides students with an opportunity to participate in well-organized career and/or vocational experiences. In these courses, the fundamental skills of reading, writing, and mathematics are applied to creative projects and the students learn by doing. Students are instructed in the use of hand tools and power machines. They become acquainted with materials, industrial processes, labor information, and job/career opportunities.

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

COURSE OFFERINGS

Introduction to Automobiles (0.5 credit) **(WHS)**
Woodworking (0.5 credit) **(WHS)**
General Construction Emerging Technology (0.5 credit) **(WHS)**
Power and Mechanics (0.5 credit) **(WHS)**

Introduction to Manufacturing (0.5 credit)
Advanced Additive & Subtractive Manufacturing (0.5 credit) **(WHS)**
Applied Business Concepts for Manufacturing **(WHS)** (0.5 credit)

CT State Housatonic Manufacturing:
Benchwork (0.5 credit) **(WHS) NEW**
Blueprint Reading (0.5 credit) **(WHS) NEW**

1210 - Introduction to Automobiles (WHS)

Credit(s) 0.5	Primarily intended as a personal automobile mechanics course, but also useful for students exploring future careers in automotive technologies, this Introduction to Automobiles course exposes students to the various mechanical systems in automobiles and provides basic experience in maintenance tasks. The course will also cover career opportunities in the automotive and/or transportation fields.
WHS	

1190 - Woodworking (WHS)

Credit(s) 0.5	This course focuses on humans' most widely used construction and manufacturing materials. Through a series of projects and problem-solving activities, the student is exposed to the techniques and processes common to designing and producing a product. This is an activity-oriented lab-based class.
WHS	

1220 - General Construction Emerging Technology (WHS)	
Credit(s) 0.5	Students will design, plan, identify, and solve problems, and build prototypes. This is an activity-based class in which students use electrical and mechanical equipment to build solutions to technical problems. Students in this class will first study the building of structures. Full-size and model buildings will be reviewed. Conventional and modern technologies are discussed and used in the design and production process. Students will then move on to the practical application of mechanical devices, products, or substances, to contribute to the harmony between humans and their environment.
WHS	
Prerequisite:	Woodworking

1230 - Power and Mechanics (WHS)	
Credit(s) 0.5	Students will design, plan, identify, and solve problems, and build prototypes. This is an activity-based class in which students use electrical and mechanical equipment to build solutions to technical problems. Students in this class will first study the building of structures. Full-size and model buildings will be reviewed. Conventional and modern technologies are discussed and used in the design and production process. Students will then move on to the practical application of mechanical devices, products, or substances, to contribute to the harmony between humans and their environment.
WHS	
Prerequisite:	Introduction to Automobiles

1221- Introduction to Manufacturing		
Credit(s) 0.5		Introduction to Manufacturing is a course specializing in how people use modern manufacturing systems with an introduction to manufacturing technology and its relationship to society, individuals, and the environment. Students will learn programs such as TinkerCad, Fusion 360, OnShape, and SolidWorks. Students will have access to 3D printers, CNC machines, and laser technology, as well as design, prototype, and improve on student-led hands-on products. Students will investigate the properties of engineered materials such as metallics; polymers; ceramics; and composites. After gaining a working knowledge of these materials, students will study six major material processes: casting and molding; forming; separating; conditioning; finishing; and assembling.
SHS	**WHS**	

1191 - CT State Housatonic Benchwork NEW!	
Credit(s) 0.5	This course covers the fundamental principles used in semi-precision and precision layout. Students will be instructed on proper technique using hand tools, band saws, hole-making tools, work-holding devices, and deburring tools to fabricate workpieces from blueprints. Other topics will include TinkerCad, Fusion 360, OnShape, and SolidWorks. Students will have access to 3D printers, CNC machines, and laser technology, and design, prototype, and improve on student-led hands-on products. Students earn 2 college credits (MFG 1453) on their CT State Housatonic transcript upon successful completion of this course.
WHS	

1341 - CT State Housatonic Blueprint Reading NEW!	
Credit(s) 0.5	This is an initial course introducing the basic principles of blueprint reading. Topics include layouts of drawings, line types and their usage, orthographic projections, sectional and auxiliary views, sketching, dimensioning, and tolerancing practices for holes, chamfers, angles, tapers, keyways, diameters, and radii. Students earn 3 college credits (MFG 1424) on their CT State Housatonic transcript upon successful completion of this course.
WHS	

1222 - Advanced Additive Subtractive Manufacturing (WHS)	
Credit(s) 0.5	Intermediate Additive and Subtractive Manufacturing is a course that covers more advanced additive and subtractive manufacturing applications than what is covered in the Introduction to Manufacturing course. Subtractive manufacturing (CNC and laser), including machining and related processes, removes material from a workpiece to make complete parts with superior accuracy and surface quality. Additive manufacturing (3D printing) builds complete or partially complete parts by creating or fusing layers of raw material, which allows highly complex part geometry. Students will also understand the potential benefits of producing parts using both subtractive and additive manufacturing techniques, as well as the benefits of the hybridization of the two. Students will have the opportunity to design and build a final product that drives, flies, floats, or does all three!
WHS	
Prerequisite:	Introduction to Manufacturing

1223 - Applied Business Concepts for Manufacturing (WHS)	
Credit(s) 0.5	Applied Business Concepts for Manufacturing will provide students with the opportunity to learn basic business principles and concepts about how manufacturing companies operate. The students will learn about how manufacturing businesses contribute to our society, understanding how the economy operates, and providing skills to utilize in manufacturing, operations, and new product development.
WHS	
Co-requisite:	Advanced Manufacturing

Clara Albert - Westhill High School

CAREER & TECHNICAL EDUCATION
BUSINESS

The business program is designed to develop problem-solving skills for everyday life, to identify goals, to analyze methods of achieving those goals, and to assist students in making informed career choices. These courses are not only valuable preparation for those students who are planning for a career in business, but also for those interested in other career paths. The business methods and skills taught will be useful to students entering the business field immediately after graduation, as well as to those planning to attend college or a business school.

(For information on Honors, AP, IB, CT State Norwalk, and UConn ECE courses, see pages 9-10)

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

COURSE OFFERINGS

Introduction to Typing & Digital Communication **(WHS) NEW**
Information Technology (0.5 credit)
Information Technology and Design (0.5 credit)
Accounting 1, 2
Advanced Principles of Accounting
Business Concepts (0.5 credits) **(WHS)**
Business Law
Business Math
Career Pathways and Success Skills (0.5 credit)
Entrepreneurship
International Business (0.5 credit) **(SHS)**
Introduction to Investments and the Stock Market (0.5 credit)
Principles of Business (0.5 credit) **(SHS)**
Business Economics(0.5 credit) **(SHS)**
Principles of Marketing (0.5 credit) **(SHS)**
Principles of Finance (0.5 credit) **(SHS)**
Principles of Management (0.5 credit) **(SHS) NEW**
Business Strategies (0.5 credit) **(SHS) NEW**
Marketing in the 21st Century
Personal Finance (0.5 credit)
Sports and Entertainment Management and Marketing
Esports Management **(WHS)**
Introduction to Web Development and Design
Introduction to Game Design (0.5 credit)
Game Design 2 (0.5 credit) **(WHS)**
Python **(WHS)**
Cybersecurity **(WHS)**
CT State Norwalk:
- Web Development & Design I (0.5 credit) **(SHS)**
- Database Development 1 (0.5 credit) **(SHS)**
- Introduction to Programming (0.5 credit) **(SHS)**

Internet of Things (0.5 credit) **(WHS)**
IB Business Management HL 1&2 **(SHS)**
IB Computer Science SL 1&2 **(SHS)**
IB Computer Science HL 1&2 **(SHS)**
Foundations of Real Estate **(SHS) NEW**
Hotel and Restaurant Management **(SHS) NEW**
UCONN ECE Personal Finance **NEW**
Introduction to Artificial Intelligence **(WHS)** (0.5 credit)
AP CK Cyber: Networking **(SHS) NEW**
AP CK Cyber: Security **(WHS) NEW**
Mobile Apps & Artificial Intelligence **(SHS)** (0.5 credit)
Virtual Reality **(SHS)** (0.5 credit)
Video Technology (0.5 credit) **(SHS)**

2460 - Introduction to Typing & Digital Communication NEW!	
Credit(s) 1.0	Unlock the power of effective communication with our touch-typing and business communication course. This entry-level course is designed for students to focus on mastering the touch keyboarding system with precision and speed. Students are challenged to improve their written communication skills by engaging in several office simulations and crafting business letters, memos, and tables. Students learn proper email etiquette, file management, and strategies for developing effective presentation skills. Through teamwork and shared learning experiences, students cultivate essential collaboration skills while sharpening their digital literacy using Google Applications, Google Applied Digital Skills, and an introduction to Microsoft Word.
WHS	

2115 - Information Technology		
Credit(s) 0.5		This course focuses on Microsoft Word for word processing, Microsoft PowerPoint for presentations, and Microsoft Excel for spreadsheets. In the word processing application, students create and edit an MLA report, resume, and cover letter. Using the presentation software, students create and edit a presentation with illustrations and shapes. Using the spreadsheet software, students create a worksheet with embedded charts, learn to use formulas, functions, web queries, what-if analysis charting, and learn to work with large worksheets.
SHS	WHS	

2075 - Information Technology and Design		
Credit(s) 0.5		This course focuses on Microsoft Publisher for desktop publishing and Microsoft Access for databases. In the desktop publishing application, students create and edit a publication, design a newsletter, create business cards, create letterhead, and create an interactive website. In the database application, students create a database, query a database, and prepare reports and forms.
SHS	WHS	

2170 - Accounting 1		
Credit(s) 1		This course introduces financial accounting theory and practices for the sole proprietor, partnership, and corporate forms of business organization. Students learn the basics of the accounting cycle and learn how to use accounting information as a basis for decision-making. Business transactions are analyzed, recorded and summarized for the preparation of financial statements.
Grade 10, 11, 12		
SHS	WHS	

2170 - Accounting 2	
Credit(s) 1	This course is designed for those students who are considering a business course of study in college. Accounting 2 focuses on the applications of accounting principles and techniques used in the majority of business transactions. Students use standard accounting practices and business procedures with an emphasis on the various managerial aspects of a business operation. Computers are used to perform various accounting applications such as spreadsheets. After completing this course, students may earn 3 college credits by passing the CLEP exam (College Level Exam Program) in Financial Accounting.
Grade 11, 12	
SHS	
Prerequisite:	Accounting 1

2275 - Advanced Principles of Accounting (WHS)	
Credit(s) 1	***NOTE:*** *Westhill High School participates in the University of Bridgeport Dual Enrollment program. Students will be awarded academic credit equal to the same course at the University of Bridgeport (Accounting 101).* This course is an introduction to the basic principles of Accounting and how to account for business transactions. Emphasis is 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. Topics include Analyzing Transactions; the Matching Concept and the Adjusting Process; Completing the Accounting Cycle; Accounting for Merchandising Business; Accounting Systems, Internal Controls, and Cash; and Receivables.
WHS	

2390 - Business Concepts	
Credit(s) 0.5	This introductory course includes an in-depth study of business concepts and the world of work. It contains units on principles of economic and consumer education, as well as business standards and ethics. An introduction to international business is included.
Grade 9, 10	
WHS	

2370 - Business Law	
Credit(s) 1	***NOTE:*** *Westhill High School participates in the University of Bridgeport Dual Enrollment program. Students will be offered 3 semester hours if they achieve a grade of B or better.*
Grade 10, 11, 12	
SHS / **WHS**	This course is designed for those students who are considering a business course of study in college. Business Law focuses on the study of the state and federal court structure, the laws of business, contracts, sales, bailments, negotiable paper, agency insurance, and business organization. Students learn about the importance of the law in our form of government and their legal rights and obligations with respect to the juvenile justice system.

2100 - Career Pathways and Success Skills	
Credit(s) 0.5	The curriculum of this course is designed to teach students the skills necessary to transition to high school, be college-ready, and be prepared to succeed in the various roles they will play as educated citizens in society. While exploring several career options students learn how to utilize all available career and college resources (e.g. Bureau of Labor Statistics, Naviance, and Financial Aid) to their advantage. They also examine their personal strengths and determine how these strengths are valuable in post-secondary education and the workforce. Students are given the opportunity to develop written and oral communication skills, technological skills, and collaborating skills.
SHS / **WHS**	

2400 - Business Math	
Credit(s) 1	This course introduces students to practical math principles with an emphasis on discounts, interest, bills, fractions, decimals, percentages, gains and losses, budgets, insurance, checking accounts, and simple records. Business Math, a basic course for students preparing to enter the business world immediately after graduation, may be used to complete one year of the math graduation requirement.
Grade 10, 11, 12	
SHS / **WHS**	

2081- Entrepreneurship	
Credit(s) 1	***NOTE:*** *Stamford High School and Westhill High School participate in the University of Bridgeport Dual Enrollment program. Students will be offered 3 semester hours if they achieve a grade of B or better.*
Grade 10, 11, 12	
SHS / **WHS**	

		Stamford High School and Westhill High School participate in the University of Bridgeport Dual Enrollment program. This full-year entrepreneurship course equips students with the foundational skills and knowledge to navigate the world of business creation and management. Students begin by cultivating an entrepreneurial mindset and understanding core economic concepts, including supply and demand, business types, and ownership structures. Throughout the course, students gain practical experience in market research, and marketing, learning to analyze customer profiles, competition, and business environments. Financial literacy is emphasized as students investigate start-up costs, and project income, and calculate break-even points. The program culminates with students developing a comprehensive written business plan and a summarized pitch which is presented in class, applying their learning to real-world entrepreneurial scenarios.

2090 - International Business (SHS)	
Credit(s) 0.5	This course introduces the study of the global economy and how the United States fits into the worldwide spectrum. The focus is on identifying the social, cultural, political, and economic differences that are unique to the various countries with which Americans do business. An emphasis is on the customs, behavior styles, negotiating techniques, and protocols to use when working with people from around the world. This includes cultural overviews, behavior styles, negotiating techniques, and protocol.
SHS	

2830 - Introduction to Investments and the Stock Market		
Credit(s) 0.5		This course is an introduction to investments and the stock market in conjunction with direct student participation in the Securities Industries and Financial Markets Association (SIFMA) Foundations Stock Market Game. The course emphasizes the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stock, bonds, and mutual funds. Stock market simulations are incorporated into the course.
SHS	**WHS**	

2842 - Principles of Business (SHS)	
Credit(s) 0.5	Project-based learning course aimed at developing understanding in areas such as business law, economics, financial analysis, human resource management, information management, marketing, operations, and strategic management. This is the first course in the High School of Business (HSB) program which is designed to simulate a college business administration program. An interview and application are necessary to enter the program. **9th or 10th grade**
SHS	

2821- Business Economics (SHS)	
Credit(s) 0.5	Project-based business course which will develop a student's understanding of economics, operations, and professional development. Through the use of six projects, students acquire an understanding of economic decision-making and entrepreneurial contribution. Interview and application process. 9th or **10th grade**
Prerequisite:	Principles of Business

2367 - Principles of Marketing (SHS)	
Credit(s) 0.5	In this course, students develop an understanding and skills in channel management, marketing-information management, market planning, pricing, product/service management, promotion and selling. **11th grade only**
SHS	
Prerequisite:	Principles of Business & Business Economics

2366 - Principles of Finance (SHS)	
Credit(s) 0.5	Students further their understanding of two specific business activities, accounting, and finance through multiple projects that make connections between accounting, cash flow, finance, and decision-making. **11th grade only**
SHS	
Prerequisite:	Principles of Business & Business Economics

2096 - Business Strategies (SHS) NEW!	
Credit(s) 0.5	Students further their understanding of two specific business activities, accounting, and finance through multiple projects that make connections between accounting, cash flow, finance, and decision-making. **12th grade only**
SHS	
Prerequisite:	Principles of Management

2094 - Principles of Management (SHS) NEW!	
Credit(s) 0.5	This project-based business course furthers student understanding of management and management functions. Through individual and team activities, students make connections between management and business success. A significant portion of the Principles of Management course is also devoted to in-depth planning and preparations necessary for
SHS	

	the successful operation of the students' class business, to be actualized in the HSB capstone Business Strategies course. **12th grade only**
Prerequisite:	Principles of Finance

2274 - Managerial Accounting (SHS)	
Credit(s) 0.5	This course focuses on the use of fundamental accounting concepts and applications in the decision-making processes that businesses face daily. The topics to be covered include: how information can be provided to companies on the effectiveness of the relevant costs of an organization's product or service; how businesses utilize a budget for planning more efficiently; and how performance evaluations are used. These topics will be investigated using case studies.
SHS	

2180 - Marketing in the 21st Century		
Credit(s) 1		This course provides an understanding of the business world and the development of the student's knowledge and ability in the marketing field. Marketing introduces the students to the processes and strategies involved in transferring business products or services to a consumer. Through interactive discussions and projects, the course's main focus is on analyzing the marketing mix, their interrelationships, and how they are used in the marketing process. Topics include: customer behavior, product policy, channels of distribution, advertising and promotion, price policy, marketing programs, and the legal aspects of marketing. Students will recognize the customer-oriented nature of marketing and analyze the impact of marketing activities on the individual, business, and society.
Grade 10, 11, 12		
SHS	**WHS**	

2361 - Personal Finance		
Credit(s) 0.5		This course introduces students to keeping and balancing a checkbook, preparing tax returns, developing a budget, and understanding the social security and tax withholding systems. The focus is on learning how to make wise financial decisions including investing and insurance, as well as establishing and maintaining credit.
Grade 11, 12		
SHS	**WHS**	

2352 - Sports and Entertainment Management and Marketing		
Credit(s) 1		This course covers the foundations of consumer behavior as it relates to the sports and entertainment business industry. Students learn how to design and implement business and marketing plans. Students also learn the integration of products, pricing, goods, and services. Finally, Students conduct an analysis of the management of leagues, teams, events, properties, corporations, and manufacturers in the industry. The role of ethics in the business of sports and entertainment is also addressed.
SHS	**WHS**	

2356 - Esports Management (WHS) *2356 - Esports Management Honors (Full Year) Offered for 3 dual enrollment college credits through the UB*	
Credit(s) 1 **1 Honors**	This course introduces students to the fundamental concepts of today's Esports industry and bringing games to market. Students learn about best practices through Esports case studies, articles, and videos. Exploration of financial, legal & ethical, marketing, and operational issues surrounding the Esports and gaming industries will be studied at length. With the skills gained in earlier Game Design classes, students will learn the process of bringing a game to market. Students will explore career opportunities and execute tournaments throughout the year, in conjunction with the AITE Esports Club. The ultimate objective would be tournaments for games created by students.
Grade 11, 12	
WHS	
Prerequisite:	Intro to Game Design, Game Design and Development

2630 - Introduction to Web Development and Design		
Credit(s) 1		This course helps students plan and develop well-designed websites that combine effective use of graphics, text, and color. Coding features allow users to easily and quickly access information. Websites are built from scratch using HTML and other programs to create web content that is interesting, accessible, and visually attractive. Other applications such as Google Sites and Photoshop are also utilized.
Grade 10, 11, 12		
SHS	**WHS**	

2473 - Introduction to Game Design		
Credit(s) 0.5		This course introduces students to the history, structure, creation, and developmental strategy of game development. The history, player, and game elements will be examined, as well as the overall creation of the game from storytelling, characters, gameplay, levels, interface, and audio content based on the summer reading. The developmental strategy will focus on the roles and responsibilities, production and management, and marketing and maintenance of game development.
SHS	**WHS**	

2475 - Game Design 2 (WHS)	
Credit(s) 0.5 each	The course continues with more advanced developmental strategies and coding for game development. The developmental strategy will focus on the roles and responsibilities, production and management, and marketing and maintenance of game development.
WHS	
Prerequisite:	Introduction to Game Design

2760 - Python (WHS)	
Credit(s) 1	Our Python curriculum is a deep dive into the fundamentals of programming concepts. The one-year introductory course is for beginners with no previous background in computer science. The course is highly visual, dynamic, and interactive, making it engaging for new coders. Python is predicated on the notion that learning about programming and computer science should be fun and engaging. In this introductory programming course, we expose students to graphics-based problem solving because it is visually engaging, allows for multiple correct solutions, and provides visual cues when a solution goes awry. In addition, this course introduces concepts, techniques, and processes associated with computer programming and software development. This requires interesting problems to solve, as computational problem-solving is the core of computer science.
WHS	

2771 - Internet of Things (WHS)	
Credit(s) 0.5	This course is a broad overview of coding technologies using the interoperability of platforms through the internet. Students will create a mobile app and website to provide monitor and control functionality of a remote Internet of Things (IoT) device. Leveraging a web-based database, students are able to connect multiple platforms together using shared data. They will then learn what it takes to create their own IoT device.
WHS	

2511 - Cyber Security (WHS)	
Credit(s) 1	This full-year course teaches students how to construct defenses for individuals and organizations from online threats both human and automated. It focuses on the following seven principles: Ethics and Society; Security Principles; Classic Cryptography; Modern Cryptography; Malicious Software; Physical Security; and Web Security.
WHS	
Prerequisite:	Integrated Math I

Camila Martinez - Westhill High School

2650 - CT State Norwalk Introduction to Programming (SHS)	
Credit(s) 0.5	This course covers Fundamentals of programming and program development techniques. Topics include data types, functions, storage class, selection, repetition, pointers, arrays, and file processing. Programming laboratory projects in a closed laboratory environment are supervised by the instructor. Students earn 4 college credits (CSC 1201) on their CT State Norwalk transcript upon successful completion of this course.
SHS	
Prerequisite:	Eligibility for CT State MATH 1600 or higher

5981 - UConn ECE Essentials of Economics (SHS)	
Credit(s) 0.5	A general introduction to micro and macroeconomics. Economic concepts include: opportunity costs, demand and supply, incentives, comparative advantage, inflation and employment policies, balance of international payments, and economic growth.
SHS	
Prerequisite:	Successful completion or concurrent enrollment in Integrated Math II and III

2652 - CT State Norwalk Web Development and Design 1 (SHS)	
Credit(s) 0.5	This course provides entry into the fast-moving website development industry. With its heavy hands-on mode of delivery, students will learn XHTML, and Cascading Style Sheets, and be exposed to JavaScript. Adhering to standards, specifically from the World Wide Web Consortium (W3C) and the European Computer Manufacturers Association (ECMA), will play a dominant role in the creation of web pages that are both platform and browser-independent. Students earn 4 college credits (CSC 1271) on their CT State Norwalk transcript upon successful completion of this course.
SHS	
Prerequisite:	Eligibility for CT State ENG 1010

2651 - CT State Norwalk Database Development I (SHS)	
Credit(s) 0.5 **SHS**	Relational database development including data modeling, database design, and database implementation. The student learns to create and alter tables, and retrieve, insert, update, and delete data using a fourth-generation language (ORACLE) in a supervised laboratory setting. Uses of database technology, understanding DBMS and RDBMS concepts, normalizing designs, transforming of logical design into physical databases, embedded SQL, and the role of the DBA are also covered. Students earn 4 college credits (CSC 1231) on their CT State Norwalk transcript upon successful completion of this course.
Prerequisite:	Eligibility for CT State ENG 1010

2092 - Foundations of Real Estate NEW!	
Credit(s) 0.5 **SHS**	Foundations of Real Estate covers important topics like property ownership, renting, buying, and the steps involved in real estate transactions. Students will explore financial literacy concepts, such as mortgages, budgeting, and evaluating property value. The course also introduces career options in real estate, including sales, appraisal, and property management. By focusing on these topics, students gain valuable knowledge to navigate housing decisions and understand the real estate industry.

2360 - UConn ECE Personal Finance New!		
Credit(s) 1		This course introduces essential topics in personal finance for individuals and entrepreneurs. The course will focus on financial literacy, personal finance topics including recordkeeping, budgeting, risk, insurance, credit, purchasing decisions, savings/investment options, income taxation of individuals and small businesses, and retirement savings.
SHS	**WHS**	

2093 - Hotel and Restaurant Management NEW!	
Credit(s) 0.5 **SHS**	Hotel and Restaurant Management provides students with knowledge and skills related to commercial and institutional food service establishments and commercial hotel and resort groups, with an emphasis on management. Course topics include guest services and relationships, marketing, planning, resource management, and other topics related to managing and operating a restaurant, hotel, or resort.

2517- Mobile Apps & Artificial Intelligence (SHS)	
Credit(s) 0.5	Students will learn the foundations of the React Native framework and components, and how to use components to create scalable custom, and fast mobile applications. Students will also learn about important computer science topics including state changes, using XML and stylesheet objects, and creating modular app layouts with flex and the Dimensions API. Students will learn how to incorporate basic Artificial Intelligence (AI) in computer science and society at large. They will also learn how to incorporate basic AI algorithms in their own work and consider the social and ethical implications of how AI is used. Students will develop a series of projects that illustrate the variety of ways AI can be used to optimize and predict information and processes.
SHS	

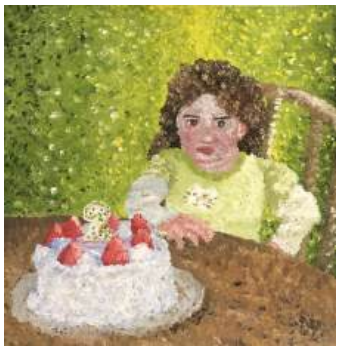
1560 - Video Technology (SHS)	
Credit(s) 0.5	This course provides the student with a basic understanding of the technology behind video as an information medium and the ways in which it is created to achieve its desired effect on an audience. Students will be able to demonstrate production skills and techniques as it relates to producing a variety of video formats. Example formats could include producing a school news program, narrative shorts, PSAs, and many other visual media.
SHS	

2689 - Introduction to Artificial Intelligence (WHS)	
Credit(s) 0.5	Introduction to Artificial Intelligence (AI) will provide students an understanding of how AI shapes the world around us. Students will explore the exciting capabilities with AI and machine learning, including natural language processing.
WHS	

1994 - Virtual Reality (SHS) NEW!	
Credit(s) 0.5	Introduction to Virtual Reality is a mini-course that introduces students to the basics of building virtual reality worlds using HTML and the A-Frame JavaScript Library. Through this course, students will build their own virtual reality worlds that are compatible with VR devices, including smartphone VR headsets!
SHS	

2516 - AP CK Cyber: Networking NEW!	
Credit(s) 1	AP CK Cyber: Networking parallels a standard first year collegiate introductory networking course. Students blend essential networking concepts with relevant, hands-on problem-solving activities to maximize their understanding of network hardware, logical and physical configuration, the use of protocols to enable reliable and accurate transmission of data between hosts, and relevant security practices that protect the transmission of data within and between computer networks. Students learn the value of configuring devices and networks with a "security-first" mindset to mitigate common vulnerabilities. Students work collaboratively to connect, configure, troubleshoot, and secure devices and networks while building critical thinking and communication skills.
SHS	

2515 - AP CK Cyber: Security NEW!	
Credit(s) 1	AP CK Cyber: Security is a broad introduction to the field of cybersecurity that aligns closely with a standard first-year collegiate introductory cybersecurity course. Students learn about common threats and vulnerabilities, and how those combine to create risk. Students study the ways that individuals and organizations manage risk, and how risk can be mitigated through a defense-in-depth strategy. Students explore specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains including physical spaces, computer networks, devices, and data and applications. Throughout the course, students consider the impact of cybersecurity on individuals, organizations, societies, and governments. Students also engage in a through-course project in which they investigate emerging trends in cybersecurity including the rising role of AI, virtualization, hardware & IoT, and how trends like BYOD and WFH are expanding the attack surface.
WHS	



Laeliah Baily - Stamford High School

Camila Lopez - Westhill High School

CAREER & TECHNICAL EDUCATION
FAMILY & CONSUMER SCIENCES

This program includes courses in individual and family development, culinary arts, fashion and interior design, and life skills. The culinary arts provide instruction in planning nutritionally balanced meals. Designing and constructing clothing, home fashions, and interior room design are included in this area. Preparing for life after high school is taught in the life skills area. Practical experience in lab situations is also offered.

(For information on UConn ECE courses, see pg. 9)

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Course Offerings		
Rising Educators I & II (Honors) (0.5 credit) **(SHS)** Child Development (0.5 credit) **(SHS)** UConn ECE Human and Development and Family Studies **(SHS)** UConn ECE If You Love It, Teach It **(SHS)**(0.5 credit)	Intro Foods (0.5 credit) Baking & Pastry (0.5 credit) **(SHS)**	Global Foods (0.5 credit) **(SHS)** Interior Design 1 & 2 (0.5 credit) **(SHS)**

0390 - Honors Rising Educators I (SHS)
0391 - Honors Rising Educators II (SHS)

Credit(s) 0.5	This honors-level course is designed for sophomores, juniors, and seniors who are interested in exploring a career in teaching at any grade level from early childhood through high school. Class discussions and assignments will focus on the profession of teaching – its history, purposes, issues, ethics, laws, roles, and qualifications. Students will explore different learning styles, learning theories, and methods of instruction. Students will participate in guided observations and participate in internship-field experiences outside of the classroom. Students will have access to unique benefits such as networking with Educators across the Stamford district, membership in the school's Rising Educators Club, attending national Educators Rising national conferences, and being part of the Educators Rising membership network of peers across the country.
SHS	

0392 - Child Development (SHS)	
Credit(s) 0.5 **SHS**	This course provides students with an understanding of the aspects of human growth and development. Positive guidance techniques and child-related issues are studied. Learning activities and lab experiences in working with preschool children are included. Each student has the opportunity to work with a computerized baby.

0393 - UConn ECE Human Development & Family Studies (SHS)	
Credit(s) 1 **SHS**	Human Development & Family Science will provide students with an understanding of individual and family development over the lifespan. The course will focus on the developing individual in the context of the family system and the changes that occur in family systems over time. The course will include an internship component. Students may be eligible for three (3) UCONN credits provided they have completed all the coursework and they have completed forty (40) internship hours.

5613 - UConn ECE Education Curriculum and Instruction, If You Love It, Teach It (SHS)	
Credit(s) 0.5 **SHS**	This is an educational foundations survey course for those who are interested in learning more about the landscape of K-12 education and how to connect their passions to it. *If You Love it, Teach It* engages students interested in working in K-12 settings in studies about teaching, learning, and schooling in the United States. It explores teaching and learning as processes that can relate to personal passions as well as how those passions are shaped, cultivated, or denied in different educational contexts. Course topics will include introductions to historical, philosophical, and social foundations of education, as well as how those foundations and personal passions relate to teaching as a profession, school organization, educational reform, and the reimagining of educational futures.

0140 - Intro Foods	
Credit(s) 0.5 **Grades 9, 10, 11** **SHS** **WHS**	This course prepares students to identify, use, and care for kitchen tools, understand safety and sanitation in the kitchen, develop level-one food preparation terminology, and practice how to use a recipe. Hands-on experiences in food preparations are practiced in a teamwork setting.

0283 - Baking and Pastry (SHS)	
Credit(s) 0.5	The course reinforces all of the techniques learned in Introduction to Foods. Quick breads, batters and yeast products are explored. Pies, tarts and cupcake decorating are an integral component of the class. The chemistry of baking is also studied. Students are exposed to career opportunities within this expanding industry. ServSafe certification for Food Handling will be offered in the class.
SHS	
Prerequisite:	Intro to Culinary Arts

0284 - Global Foods (SHS)	
Credit(s) 0.5	Join us for an exciting culinary journey across the globe. Students will learn the cultural richness of meals that represent a country's history and origins. They will explore new food patterns and trends. Students will reinforce all techniques learned in Intro to Foods and Baking and Pastry.
SHS	
Prerequisite:	Intro to Culinary Arts

1265 - Interior Design 1 (SHS)	
Credit(s) 0.5	This course enables students to explore their creativity in the field of interior design. Identification and utilization of the elements and principles of design are emphasized. Creating functional and pleasing living environments based on sound financial decisions and design principles is emphasized. Skills in mathematics, technology, and art are reinforced. Other topics included are housing choices, area planning, and careers.
SHS	

1266 - Interior Design 2 (SHS)	
Credit(s) 0.5	This course reinforces the principles learned in Interior Design 1. Colleges and careers within this expanding field are examined. The elements and principles of design are further utilized through project-based learning. Room design and finishes are discussed. Skills in mathematics, technology, and art are reinforced. Individual projects reinforce research and writing skills.
SHS	
Prerequisite:	Interior Design 1

Amber Cruz - Stamford High School

Aidan Vetti - Stamford High School

COMPUTER SCIENCE & TECHNOLOGY

Computer Science and Technology courses are designed to provide students with a foundational understanding of the concepts, skills, and applications that drive the digital world. These courses will introduce students to the basics of computer science, programming, and technology systems, offering them a comprehensive overview of how computers and software impact everyday life. Through hands-on projects, coding exercises, and real-world applications, students will explore the ever-evolving fields of technology and develop critical thinking, problem-solving, and technical skills.

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

COURSE OFFERINGS

AP Computer Science A **(WHS)**
AP Computer Science Principles
Data Structures & Algorithms **(WHS)**
AP CK Cyber: Networking **(SHS) NEW**
AP CK Cyber: Security **(WHS) NEW**

CT State Norwalk:
- Web Development & Design I (0.5 credit) **(SHS)**
- Database Development 1 (0.5 credit) **(SHS)**
- Introduction to Programming (0.5 credit) **(SHS)**

IB Computer Science SL 1&2 **(SHS)**
IB Computer Science HL 1&2 **(SHS)**
Video Technology (0.5 credit) **(SHS)**
Introduction to Computer Science (0.5 credits)
Introduction to Web Development and Design
Introduction to Game Design (0.5 credit)
Game Design 2 (0.5 credit) **(WHS)**
Python **(WHS)**
Internet of Things (0.5 credit) **(WHS)**
Cybersecurity **(WHS)**
Introduction to Artificial Intelligence **(WHS)** (0.5 credit)
Mobile Apps & Artificial Intelligence **(SHS)** (0.5 credit)
Virtual Reality **(SHS)** (0.5 credit)
Information Technology (0.5 credit)
Information Technology and Design (0.5 credit)

2115 - Information Technology

Credit(s) 0.5		
SHS	**WHS**	This course focuses on Microsoft Word for word processing, Microsoft PowerPoint for presentations, and Microsoft Excel for spreadsheets. In the word processing application, students create and edit an MLA report, resume, and cover letter. Using the presentation software, students create and edit a presentation with illustrations and shapes. Using the spreadsheet software, students create a worksheet with embedded charts, learn to use formulas, functions, web queries, what-if analysis charting, and learn to work with large worksheets.

2075 - Information Technology and Design	
Credit(s) 0.5	This course focuses on Microsoft Publisher for desktop publishing and Microsoft Access for databases. In the desktop publishing application, students create and edit a publication, design a newsletter, create business cards, create letterhead, and create an interactive website. In the database application, students create a database, query a database, and prepare reports and forms.
SHS **WHS**	

1560 - Video Technology (SHS)	
Credit(s) 0.5	This course provides the student with a basic understanding of the technology behind video as an information medium and the ways in which it is created to achieve its desired effect on an audience. Students will be able to demonstrate production skills and techniques as it relates to producing a variety of video formats. Example formats could include producing a school news program, narrative shorts, PSAs, and many other visual media.
SHS	

2342 - Introduction to Web Development and Design	
Credit(s) 1	This course helps students plan and develop well-designed websites that combine effective use of graphics, text, and color. Coding features allow users to easily and quickly access information. Websites are built from scratch using HTML and other programs to create web content that is interesting, accessible, and visually attractive. Other applications such as Google Sites and Photoshop are also utilized.
Grade 10, 11, 12	
SHS **WHS**	

2473 - Introduction to Game Design	
Credit(s) 0.5	This course introduces students to the history, structure, creation, and developmental strategy of game development. The history, player, and game elements will be examined, as well as the overall creation of the game from storytelling, characters, gameplay, levels, interface, and audio content based on the summer reading. The developmental strategy will focus on the roles and responsibilities, production and management, and marketing and maintenance of game development.
SHS **WHS**	

2475 - Game Design 2 (WHS)	
Credit(s) 0.5 each	The course continues with more advanced developmental strategies and coding for game development. The developmental strategy will focus on the roles and responsibilities, production and management, and marketing and maintenance of game development.
WHS	
Prerequisite:	Introduction to Game Design

2760 - Python (WHS)	
Credit(s) 1	Our Python curriculum is a deep dive into the fundamentals of programming concepts. The one-year introductory course is for beginners with no previous background in computer science. The course is highly visual, dynamic, and interactive, making it engaging for new coders. Python is predicated on the notion that learning about programming and computer science should be fun and engaging. In this introductory programming course, we expose students to graphics-based problem solving because it is visually engaging, allows for multiple correct solutions, and provides visual cues when a solution goes awry. In addition, this course introduces concepts, techniques, and processes associated with computer programming and software development. This requires interesting problems to solve, as computational problem-solving is the core of computer science.
WHS	

2771 - Internet of Things (WHS)	
Credit(s) 0.5	This course is a broad overview of coding technologies using the interoperability of platforms through the internet. Students will create a mobile app and website to provide monitor and control functionality of a remote Internet of Things (IoT) device. Leveraging a web-based database, students are able to connect multiple platforms together using shared data. They will then learn what it takes to create their own IoT device.
WHS	

2511 - Cybersecurity (WHS)	
Credit(s) 1	This full-year course teaches students how to construct defenses for individuals and organizations from online threats both human and automated. It focuses on the following seven principles: Ethics and Society; Security Principles; Classic Cryptography; Modern Cryptography; Malicious Software; Physical Security; and Web Security.
WHS	
Prerequisite:	Integrated Math I

2652 - CT State Norwalk Web Development and Design 1 (SHS)	
Credit(s) 0.5	This course provides entry into the fast-moving website development industry. With its heavy hands-on mode of delivery, students will learn XHTML, and Cascading Style Sheets, and be exposed to JavaScript. Adhering to standards, specifically from the World Wide Web Consortium (W3C) and the European Computer Manufacturers Association (ECMA), will play a dominant role in the creation of web pages that are both platform and browser-independent.
SHS	

	Students earn 4 college credits (CSC 1271) on their CT State Norwalk transcript upon successful completion of this course.
Prerequisite:	Eligibility for CT State ENG 1010

2651 - CT State Norwalk Database Development I (SHS)	
Credit(s) 0.5	Relational database development including data modeling, database design, and database implementation. The student learns to create and alter tables, and retrieve, insert, update, and delete data using a fourth-generation language (ORACLE) in a supervised laboratory setting. Uses of database technology, understanding DBMS and RDBMS concepts, normalizing designs, transforming of logical design into physical databases, embedded SQL, and the role of the DBA are also covered. Students earn 4 college credits (CSC 1231) on their CT State Norwalk transcript upon successful completion of this course.
SHS	
Prerequisite:	Eligibility for CT State ENG 1010

2650 - CT State Norwalk Introduction to Programming (SHS)	
Credit(s) 0.5	This course covers Fundamentals of programming and program development techniques. Topics include data types, functions, storage class, selection, repetition, pointers, arrays, and file processing. Programming laboratory projects in a closed laboratory environment are supervised by the instructor. Students earn 4 college credits (CSC 1201) on their CT State Norwalk transcript upon successful completion of this course.
SHS	
Prerequisite:	Eligibility for CT State MATH 1600 or higher

6630 - Introduction to Computer Science		
Credit(s) 0.5		This introductory course examines programming techniques, teaches the fundamentals of programming language (currently Java) and syntax, and prepares students to develop applications in computer programming. This class is an introductory class preparing students for further study in AP Computer Science.
SHS	**WHS**	
Prerequisite:		Integrated Math I

6640 - AP Computer Science A (WHS)	
Credit(s) 1	This intensive college-level Computer Science course examines the advanced properties of data structures, design, and algorithm development using Java as the programming language. Student experiences focus and emphasize problem-solving and real-life applications through critical thinking activities including the social and ethical implications of computer use.
WHS	
Prerequisite:	Algebra 2

6644 - AP Computer Science Principles		
Credit(s) 1		This course introduces the essential ideas of computer science and shows how computing and technology can influence the world around us. Real-world issues and concerns will be creatively addressed while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life.
SHS	**WHS**	

6643 - Data Structures & Algorithms (WHS)	
Credit(s) 1	This course follows AP Computer Science. It focuses on data structures and consists of the following topics: Java Collections Framework, Lists, Linked-Lists, Big Omega Analysis, Iterators, Stacks and Queues, Trees, Binary Trees, Regular Expressions, and Hashing. After establishing a theoretical framework on Big Omega, the remainder of the course is highly practical with each topic being taught using programming projects.
WHS	
Prerequisite:	AP Computer Science

2689 - Introduction to Artificial Intelligence (WHS)	
Credit(s) 0.5	Introduction to Artificial Intelligence (AI) will provide students an understanding of how AI shapes the world around us. Students will explore the exciting capabilities with AI and machine learning, including natural language processing.
WHS	

2516 - AP CK Cyber: Networking NEW!	
Credit(s) 1	AP CK Cyber: Networking parallels a standard first year collegiate introductory networking course. Students blend essential networking concepts with relevant, hands-on problem-solving activities to maximize their understanding of network hardware, logical and physical configuration, the use of protocols to enable reliable and accurate transmission of data between hosts, and relevant security practices that protect the transmission of data within and between computer networks. Students learn the value of configuring devices and networks with a "security-first" mindset to mitigate common vulnerabilities. Students work collaboratively to connect, configure, troubleshoot, and secure devices and networks while building critical thinking and communication skills.
SHS	

2515 - AP CK Cyber: Security NEW!	
Credit(s) 1	AP CK Cyber: Security is a broad introduction to the field of cybersecurity that aligns closely with a standard first year collegiate introductory cybersecurity course. Students learn about common threats and vulnerabilities, and how those combine to create risk. Students study the ways that individuals and organizations manage risk, and how risk can be mitigated through a defense-in-depth strategy. Students explore specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains including physical spaces, computer networks, devices, and data and applications. Throughout the course students consider the impact of cybersecurity on individuals, organizations, societies, and governments. Students also engage in a through-course project in which they investigate emerging trends in cybersecurity including the rising role of AI, virtualization, hardware & IoT, and how trends like BYOD and WFH are expanding the attack surface.
WHS	

1995 - Virtual Reality (SHS)	
Credit(s) 0.5	Introduction to Virtual Reality is a mini-course that introduces students to the basics of building virtual reality worlds using HTML and the A-Frame JavaScript Library. Through this course, students will build their own virtual reality worlds that are compatible with VR devices, including smartphone VR headsets!
SHS	

2517- Mobile Apps & Artificial Intelligence (SHS)	
Credit(s) 0.5	Students will learn the foundations of the React Native framework and components, and how to use components to create scalable custom, and fast mobile applications. Students will also learn about important computer science topics including state changes, using XML and stylesheet objects, and creating modular app layouts with flex and the Dimensions API.
SHS	

	Students will learn how to incorporate basic Artificial Intelligence (AI) in computer science and society at large. They will also learn how to incorporate basic AI algorithms in their own work and consider the social and ethical implications of how AI is used. Students will develop a series of projects that illustrate the variety of ways AI can be used to optimize and predict information and processes.

6651 - IB Computer Science SL 1 ***6653 - IB Computer Science HL 1***	
Credit(s) 1	This 11th-grade course is year one of a two-year course. Students in this course will learn about how computer scientists work and communicate in the successful development of IT solutions. They will explore a variety of methods and techniques that characterize computer science and use critical thinking skills to identify and resolve complex problems and to identify moral, ethical, social, economic, and environmental implications of using science and technology. In this year one SL course, the focus is on system fundamentals, and computer organization. The HL course also explores networks and programming.
SHS	

6652 - IB Computer Science SL 2 ***6654 - IB Computer Science HL 2***	
Credit(s) 1	This 12th-grade course is year two of a two-year course. This course continues to explore a variety of methods and techniques that characterize computer science and use critical thinking skills to identify and resolve complex problems and to identify moral, ethical, social, economic, and environmental implications of using science and technology. The focus in year two of this SL course is on networks and computational thinking, problem-solving, and programming. The HL course focuses on abstract data structures, resource management, and control, as well as a study extension. Students also participate in the practical application of skills and collaborative projects.
SHS	
Prerequisite:	Completion of IB Computer Science 1

WORLD LANGUAGES

Modern technology has made it imperative that we learn to communicate successfully with people of other lands in and through their native language. The World Languages program provides instruction in three modern languages. The program emphasizes communication, understanding, and appreciation of other people's literature and culture. It also recognizes the need for developing speaking competence and proficiency in the language of the student's choice as related to possible career goals. World language classes are taught according to the Stamford Board of Education and State of Connecticut curriculum guidelines of communication, cultures, connections, comparisons, and communities. **Advancement to the next level of a course requires a grade of C- or higher**.

(For information on Honors, AP, IB, and UConn ECE courses, see pages 9-10)

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Graduation Requirement 1 Credit* - Possible Course Sequences

Grade 9	Grade 10	Grade 11	Grade 12
French 1 Honors French 2 Italian 1 Spanish 1 Spanish 2 Honors Spanish 2 Spanish 3 Honors Spanish 3 Heritage Spanish 1 Spanish Native Language Arts	French 2 Honors French 2 French 3 Honors French 3 Italian 2 Spanish 2 Honors Spanish 2 Spanish 3 Honors Spanish 3 Heritage Spanish 2 Honors	French 3 Honors French 3 Honors French 4 Italian 3 Honors Italian 3 Spanish 3 Honors Spanish 3 Spanish 4 Honors Spanish 4 Honors Spanish 5 AP Spanish Language and Culture	Honors French 4 Honors French 5 Honors Italian 4 Honors Spanish 5 AP Spanish Literature

***2-3 credits within the same language recommended for college admissions**

Course Offerings

French 1, 2, 3, 4
Honors French 2, 3, 4,
AP French
(WHS independent study)
Italian 1, 2, 3
Honors Italian 2 -
Honors Italian 3
Honors Italian 4 /UCONN ECE Italian

Spanish 1, 2, 3, 4
Honors Spanish 2, 3, 4, 5
Spanish Native Language Arts 1, 2

AP Spanish Language
AP Spanish Literature **(WHS)**
Heritage Spanish 1
Honors Heritage Spanish 2
Spanish Language & Cultural Foundations **(SHS)**

IB Spanish 1 **(SHS)**
IB Spanish SL 1&2 **(SHS)**
IB Spanish HL 1&2 **(SHS)**
IB Spanish Ab Initio 1&2 **(SHS)**
IB Italian Ab Initio SL 1 **(SHS)**

4100 - French 1	
Credit(s) 1	This introductory course is designed for students with little or no previous study of French, focusing on all four-language skills: listening, speaking, reading, and writing, while emphasizing oral communication and cultural connections. In addition to traditional methods of assessment, students role-play, make small oral presentations, and engage in guided conversations.
SHS **WHS**	

4200 - French 2 *4610 - Honors*	
Credit(s) 1	This course continues to develop the skills begun in French 1 through listening, speaking, reading, and writing, with a special emphasis on oral communication and cultural connections. In addition to traditional methods of assessment, students role-play, make small presentations, and engage in guided conversations.
SHS **WHS**	
Prerequisite:	Completion of French 1

4300 - French 3 *4620 - Honors*	
Credit(s) 1	This course develops language acquisition more in-depth through the four language skills: listening, speaking, reading, and writing, with an increasing emphasis on reading a wider variety of materials. Students achieve a higher degree of comprehension and are able to communicate cultural materials in broader terms by making presentations, writing compositions, doing readings, and dictations, and presenting their own skits.
SHS **WHS**	
Prerequisite:	Completion of French 2

4400 - French 4 *4640 - Honors*	
Credit(s) 1	This course focuses on listening, speaking, reading, and writing at the intermediate/pre-advanced proficiency levels through a variety of authentic resources such as radio and TV announcements, newspapers and magazines, Francophone literature, as well as other non-fiction texts. Students demonstrate their oral proficiency through debates and discussions of historical, social, and cultural aspects of life in the target language.
SHS **WHS**	
Prerequisite:	Completion of French 3

4670 - Honors French 5	
Credit(s) 1	This course is designed to provide students with continued instruction in French and may enable some to prepare for the AP French Language course. This course will focus on broad themes including society and its problems, education and finance, art, news coverage, television, and various readings in literature. There will also be a film component and an emphasis on contemporary culture. In addition, there will be fine-tuning of grammatical points covered in previous years of study.
SHS **WHS**	
Prerequisite:	Completion of French 4

4500 - AP French (WHS)	
Credit(s) 1	This course is designed to develop highly sophisticated communicative skills and to meet the objectives of a rigorous course of French at the college level. Attention is given to reading, analyzing, and producing in-depth critical thinking on contemporary and literary issues in both oral and written forms. Students participate freely and fluently in class discussions in the target language.
WHS	
Prerequisite:	Completion of Honors French 5 or with permission of the department head

4120 - Italian 1	
Credit(s) 1	This introductory course is designed for students with little or no previous study of Italian, focusing on all four language skills: listening, speaking, reading, and writing while emphasizing oral communication and cultural connections. In addition to traditional methods of assessments, students role-play, make small oral presentations, and engage in guided conversations.
SHS **WHS**	

4220 - Italian 2 *4220 - Honors*	
Credit(s) 1	This course continues to develop the skills begun in Italian 1 through listening, speaking, reading, and writing, with a special emphasis on oral communication and cultural connections. In addition to traditional methods of assessments, students role-play, make small presentations, and engage in guided conversations.
SHS **WHS**	
Prerequisite:	Completion of Italian 1

4320 - Italian 3 *4321 - Honors*	
Credit(s) 1	This course develops language acquisition more in-depth through the four language skills: listening, speaking, reading, and writing, with an increasing emphasis on reading a wider variety of materials. Students achieve a higher degree of comprehension and are able to communicate cultural materials in broader terms by making presentations, written compositions, readings, dictations, and presenting their own skits.
SHS **WHS**	
Prerequisite:	Completion of Italian 2

4421/4422 - Honors Italian 4/UCONN ECE Italian(Co-seated)	
Credit(s) 1	This course is designed to develop highly sophisticated communicative skills and to meet the objectives of a rigorous course in Italian at the college level. Attention is given to reading, analyzing, and producing in-depth critical thinking on contemporary and literary issues in both oral and written forms. Students participate freely and fluently in class discussions in the target language.
SHS **WHS**	
Prerequisite:	Completion of Italian 3 Honors

4130 - Spanish 1	
Credit(s) 1	This introductory course is for students with little or no previous study of Spanish, focusing on all four language skills: listening, speaking, reading, and writing, while emphasizing oral communication and cultural connections. In addition to traditional methods of assessments, students role-play, make small oral presentations, and engage in guided conversations.
SHS **WHS**	

4230 - Spanish 2 *4600 - Honors*	
Credit(s) 1	This course continues to develop the skills begun in Spanish 1 through listening, speaking, reading, and writing, with a special emphasis on oral communication and cultural connections. In addition to traditional methods of assessments, students role-play, make small presentations, and engage in guided conversations.
SHS **WHS**	
Prerequisite:	Completion of Spanish 1

4330 - Spanish 3 *4630 - Honors*	
Credit(s) 1 **SHS** **WHS**	This course develops language acquisition more in-depth through the four language skills: listening, speaking, reading, and writing, with an increasing emphasis on reading a wider variety of materials. Students achieve a higher degree of comprehension and are able to communicate cultural materials in broader terms by making presentations, written compositions, readings, dictations, and presenting their own skits.
Prerequisite:	Completion of Spanish 2

4430 - Spanish 4 *4650 - Honors*	
Credit(s) 1 **SHS** **WHS**	This course focuses on listening, speaking, reading, and writing at the intermediate/pre-advanced proficiency levels through a variety of authentic resources such as radio and TV announcements, newspapers and magazines, literature from Latin America and Spain, as well as other non-fiction texts. Students demonstrate their oral proficiency through debates and discussions of historical, social, and cultural aspects of life in the target language.
Prerequisite:	Completion of Spanish 3

4680 - Honors Spanish 5	
Credit(s) 1 **SHS** **WHS**	This course is designed to provide students with continued instruction in Spanish prior to the AP Spanish Language course. This course will focus on broad themes including society and its problems, education and finance, art, news coverage, television, and various readings in literature. In addition, there will be fine-tuning of grammatical points covered in previous years of study.
Prerequisite:	Completion of Spanish 4

4530 - AP Spanish Language	
Credit(s) 1 **SHS** **WHS**	This course is designed to develop highly sophisticated communicative skills and to meet the objectives of a rigorous course of Spanish at the college level. Attention is given to reading, analyzing, and producing in-depth critical thinking on contemporary and literary issues in both oral and written forms. Students participate freely and fluently in class discussions in the target language.
Prerequisite:	Completion of Honors Spanish 5 or Honors Heritage Spanish 2

4580 - AP Spanish Literature	
Credit(s) 1 **WHS**	This course is designed as the culminating course for the Spanish sequence. The AP Spanish Literature course is comparable to a third-year college introduction to Hispanic literature course. It is based on a required reading list. The works on the list are of literary significance and represent various historical periods, literary movements, genres, geographic areas, and population groups within the Spanish-speaking world. The objective of the course is to help students interpret and analyze literature in Spanish.
Prerequisite:	Completion of AP Spanish Language

4131 - Heritage Spanish 1		
Credit(s) 1		This course is designed for students who can read and write in Spanish and are fluent. Attention is given to language misconceptions and anglicized expressions that are common to Spanish speakers born in the United States. Grammar and vocabulary are taught in context through age-appropriate readings of short stories, periodicals, thematic essays, and poetry. Upon completion of this course, students are better prepared for advanced-level language courses.
SHS	**WHS**	

4231 - Honors Heritage Spanish 2		
Credit(s) 1		This course requires students to achieve more sophisticated and complex structures in spelling, grammar, and literary forms of the Spanish language in an effort to become truly literate or bilingual. Through the study of Latin American authors and their literature, students will develop interpretive skills and become fluent in written response to literature. This course will prepare students for the Advanced Placement Spanish Language course. Students are expected to participate in the COLT Annual Poetry Contest and the National Spanish Examination.
SHS	**WHS**	

4233 - Spanish Language and Cultural Foundations *Administrative approval required*	
Credit(s) 1 **SHS**	This full-year course is designed to provide students with a foundation in the Spanish language and an understanding of Hispanic cultures. The course is co-taught by a Spanish teacher and a special education teacher to ensure a supportive and inclusive learning environment. It satisfies the high school world language requirement and focuses on developing basic functional vocabulary and essential language skills for use within various public spaces, hospitals, restaurants, schools, and the workplace.

3141 - Spanish Native Language Arts 1 *3142 - Spanish Native Language Arts 2*	
Credit(s) .5 **SHS** **WHS**	This course is designed for native speakers of Spanish who need to develop literacy skills in their first language. It will start with the basics of language arts skills including phonetics, orthography, reading basics, and writing instruction.
Prerequisite:	Native speaker of Spanish who does not read or write in Spanish

Naeshaun Rivera - Anchor

HEALTH AND PHYSICAL EDUCATION

The Health Education Program provides students with a comprehensive study of various aspects of personal health and wellness. Core content includes Optimal Wellness, Mental & Emotional Health, Alcohol, Nicotine & Other Drugs, Healthy Relationships, Violence Prevention, Safety & Injury Prevention, Healthy Eating & Physical Activity, Sexual Health, Disease Prevention, and Sexual Assault & Abuse Prevention. Students will also have the opportunity to earn American Red Cross First Aid, CPR, and AED Certification. Students are required to take one full credit (two semesters) of Health courses, typically taken during 9th and 10th grades.

The Physical Education Program fosters an environment where all students are physically educated and participate in lifelong physical activity. Students have a variety of options to choose from to develop and enhance their personal fitness and wellness. All students are required to take one full credit (two semesters) of Physical Education, typically taken during 9th and 10th grades. All students will participate in the state-mandated Connecticut Physical Fitness Test within their Physical Education class.

****All courses will run next year based upon student requests. We may not run the course if a course is not at 80% capacity.**

Graduation Requirement 1 Credit of Health and 1 Credit of Physical Education - Possible Course Sequences			
Grade 9	**Grade 10**	**Grade 11**	**Grade 12**
Health 1/PE 9 (SHS) Health 1/PE 9 (WHS)	Health 2 / Choice of any PE Elective Below (SHS) Health 2 / Choice of any PE Elective Below (WHS)	Health & Physical Education Elective Offerings	Health & Physical Education Elective Offerings

Required and Elective Courses			
Health 1, 2 Human Behavior Stress Management & Mindfulness Introduction to Healthcare Occupations **(WHS)** Medical Terminology & Skills **(WHS)** Sports Medicine	Intro to Public Safety EMS Explorer: Emergency Medical Services and Procedures**(WHS)** UConn ECE Health and Education in Urban Communities **(SHS)**	Physical Education 9 Peer Assisted Physical Education **(SHS)** Adaptive Physical Education **(WHS)** Team Sports Leisure Sports Weight Training Cardio Fitness Power Walking	Dance Forms Yoga Sports Officiating Racquet Sports Beginner Swimming **(WHS)** Intermediate Swimming **(WHS)** Physical Education Leadership Athletic Leadership **NEW** CNA-Certified Nursing Assistant **(WHS) NEW**

9900 - Health 1 *9831 - Sheltered* *9680 - Administrative approval required*	
Credit(s) 0.5	Health 1 will focus on the following key standards and skills - Analyzing Influences, Accessing Valid Health Information, and Interpersonal Communication as they relate to various health core content.
Grade 9	
SHS **WHS**	

9910 - Health 2 *9832 - Sheltered* *9820 - Administrative approval required*	
Credit(s) 0.5	Health 2 will focus on the following key standards and skills - Decision Making, Goal Setting, Self-Management, and Advocacy as they relate to various health core content.
Grade 10	
SHS **WHS**	

9830 - Human Behavior	
Credit(s) 0.5	This course examines the principles of human behavior through guided group discussions. Major topics emphasize group behavior, team building, development of a positive self-image, conflict resolution/mediation, self-destructive behaviors, relationships, communication skills, human sexuality, and life skills.
Grades 9.10, 11, 12	
SHS **WHS**	

9113 - Stress Management & Mindfulness	
Credit(s) 0.5	This semester course is designed to make the student aware of stress and how it can impact their quality of life. It will provide methods for identifying stressors and strategies to manage them effectively. Comprehensive stress reduction programming based on practices from around the world provides a theoretical and experiential learning opportunity. Students will be able to construct a personalized lifestyle management program through developing holistic, behavioral, and cognitive (coping) skills, as well as, become an advocate for stress management in our community.
Grades 9,10,11&12	
SHS **WHS**	

9940 - Introduction to Healthcare Occupations (WHS)	
Credit(s) 0.5 **Grades 11, 12** **WHS**	Students will be able to identify and prepare for future career goals and aspirations through this introductory course. Foundations of healthcare occupations will be explored with an introduction to the healthcare systems, healthcare occupations, employability, leadership, medical liability, medical ethics, wellness, teamwork, and effective communication. This course will also include American Red Cross Basic Life Support Training.
Prerequisite:	Health 1 and 2

9950 - Medical Terminology & Skills (WHS)	
Credit(s) 0.5 **Grades 11, 12** **WHS**	This is the 2nd required course in the health science pathway program. Students will gain a deeper understanding of healthcare knowledge and skills. Specific topics will include medical terminology, medical math, measurement and the scientific process, human body systems and functions, human growth and development, mental illness, nutrition, infectious disease control, patient and employee safety, vital signs and clinical skills, medical assisting and lab skills, therapeutic techniques and responsibilities of a dental assistant. This course will provide students with the foundational skills necessary for pursuing a Certified Nursing Assistant program.
Prerequisite:	Health 1 and 2, Introduction to Healthcare Occupations

Ashley Vasquez - Stamford High School

9030 - Sports Medicine	
Credit(s) 0.5	This course examines human anatomy and the care and prevention of athletic injuries. Topics emphasize First Aid, CPR, muscular anatomy, skeletal anatomy, injury prevention, sports nutrition, and athletic training. Students explore the field of Sports Medicine by participating in a required job-shadowing project.
Grades 11, 12	
SHS **WHS**	
Prerequisite:	Health 1 and 2

9112 - Intro to Public Safety	
Credit(s) 0.5	This course provides students with an opportunity to learn about the important issues that First Responders face while serving their community. We will dive into and learn about some of the basic skills utilized by the ambulatory, police, and fire systems when providing care in emergency and non-emergency situations. The course curriculum involves interactive lectures, hands-on practical training, and professional guest speakers currently working in the field as a First Responder.
Grades 9, 10, 11, 12	
SHS **WHS**	

8937 - EMS Explorer : Emergency Medical Services and Procedures	
Credit(s) 1.0	During the initial weeks of the course EMS Explorer offers a thorough introduction to the realm of Emergency Medical Services (EMS). Participants will acquire a foundational understanding of medical terminology, anatomy, physiology, and medical terminology, establishing the groundwork for addressing diverse medical emergencies. Emphasis will be placed on practical skills, including basic life support, patient assessment, and effective emergency scene management. Additionally, the ethical and legal considerations related to pre-hospital care will be explored, fostering a comprehensive grasp of EMS providers' role within the healthcare framework. The second part of the course concentrates on sophisticated emergency medical procedures. Topics such as pharmacology, trauma care, and the management of specialized patient demographics, and much more are covered. Participants will hone their abilities in administering and assisting in the administration of medications, handling intricate trauma scenarios, and responding to obstetric and pediatric emergencies. The incorporation of practical scenarios and simulated exercises aims to enhance critical thinking and decision-making capabilities.
Grades 11, 12	
WHS	
Prerequisite:	Intro to Public Safety

9951 - UConn ECE Health and Education in Urban Communities (SHS)	
Credit(s) 0.5	UCONN EDLR 1162 explores historical and social forces that shape health and education in urban communities, specifically in Connecticut. Topics of study will include poverty, culture, and identity and how these phenomena affect children's health, nutrition, schooling, and opportunities for success. Through readings, films, discussion, reflection, and service-learning opportunities, class members analyze policies, norms, and beliefs in our society. Students will be challenged to consider how these trends may lead us to a more just society and how these may perpetuate injustice. Students are required to complete a 15-hour community service project.
Grades 11, 12	
SHS	

9010 - Physical Education 9		
Credit(s) 0.5	This course engages students by encouraging lifelong fitness. Activities offered in this course include but are not limited to, soccer, flag football, volleyball, softball, floor hockey, basketball, tennis, badminton, cooperative games, and fitness. Students develop the skills and fitness level necessary to participate in the Connecticut Physical Fitness Test.	
Grades 9		
SHS	**WHS**	

9643 - Peer Assisted Physical Education (SHS)	
Credit(s) 0.5	This course engages students by encouraging lifelong fitness while working with our adaptive physical education students in a fun and inclusive setting. Students will not only learn about individual and team sports and activities but will also engage in player/partner peer assisted Physical Education activities and fitness.
Grades 10, 11, 12	
SHS	
Prerequisite:	Administrative approval required

9640 - Adaptive Physical Education (WHS)	
Credit(s) 1	This course develops and maintains general physical fitness levels through active participation in selected physical activities. The course provides an introduction to individual and team sports with an emphasis placed on skills acquisition and sportsmanship through competition. Students participate in individual and team competitions.
WHS	
Prerequisite:	Administrative approval required

9340 - Team Sports	
Credit(s) 0.5	This course engages students who wish to participate in team sport activities. Students develop basic and intermediate skills and guidelines of each sport. Activities may include: flag football, soccer, basketball, volleyball, softball, floor hockey, and a variety of cooperative games.
Grades 10, 11, 12	
SHS **WHS**	

9350 - Leisure Sports	
Credit(s) 0.5	This course engages students who wish to participate in a variety of individual or dual sports. Students develop basic and intermediate skills and guidelines for each sport. Activities may include tennis, badminton, golf, handball, pickleball, archery, and table tennis.
Grades 10, 11, 12	
SHS **WHS**	

9360 - Weight Training	
Credit(s) 0.5	This course engages students who wish to participate in a personal fitness program. The instructor develops personalized fitness programs for students based on individual goals. Fitness routines include resistance training and cardiovascular strength and endurance, utilizing both the weight room and fitness center.
Grades 10, 11, 12	
SHS **WHS**	

9390 - Cardio Fitness	
Credit(s) 0.5	This course engages students who wish to improve their cardiovascular strength and endurance and participate in a personal fitness program. The instructor develops personalized fitness programs for students based on individual goals, utilizing equipment in the Fitness Center.
Grades 10, 11, 12	
SHS **WHS**	

9380 - Power Walking	
Credit(s) 0.5	This course engages students to develop an appreciation for lifelong fitness. The students are engaged in walking routines to challenge cardiovascular endurance. This course may include trips to area parks or trails.
Grades 10, 11, 12	
SHS **WHS**	

9190 - Dance Forms	
Credit(s) 0.5	This course engages students in movement concepts, tempos, and beats. Students develop an appreciation for the many different dance styles. Dance Forms include choreographing varied dance styles.
Grades 10, 11, 12	
SHS / WHS	

9930 - Yoga	
Credit(s) 0.5	This course offers an opportunity for physical education students to be physically active in a relaxing, non-competitive environment. Students will learn yoga poses, stretches, and breathing techniques that create a mind and body-connection. Yoga will address the fitness components of flexibility and muscular strength while enhancing the self-efficacy of students.
Grades 10, 11, 12	
SHS / WHS	

9111 - Sports Officiating	
Credit(s) 0.5	This course will provide students with the knowledge and expertise necessary to officiate in physical education classes, intramurals, and athletic programs. It includes the basic fundamental skills on officiating as well as the rules and mechanics of a variety of sports such as basketball, volleyball, soccer, softball & baseball. Opportunities for certification for sports officiating may be provided.
Grades 10, 11, 12	
SHS / WHS	

9185 - Racquet Sports	
Credit(s) 0.5	This course is a PE elective for students interested in developing progressions from fundamental motor skills to tactical and mechanical concepts in a variety of racquet sports including Badminton, PickleBall, Table Tennis, and Tennis. Available teaching space, equipment, and weather conditions will vary the choices.
Grades 10, 11, 12	
SHS / WHS	

9170 - Beginner Swimming (WHS)	
Credit(s) 0.5	This course introduces students to basic swimming instruction and water safety. Instruction develops and enhances participants' swimming levels.
Grades 10, 11, 12	
WHS	

9180 - Intermediate Swimming (WHS)	
Credit(s) 0.5 **Grades 10, 11, 12** **WHS**	This course engages students with a basic swimming ability. Participants' ability levels may increase to the intermediate/advanced level. This course includes water safety, swimming instruction, aqua fitness, structured water games, and the possibility of American Red Cross Lifeguard Certification training.
Prerequisite:	Must have passed Beginner Swimming or have staff approval.

9392 - Physical Education Leadership	
Credit(s) 0.5 **Grades 11, 12** **SHS** **WHS**	Interested in becoming a teacher or coach? Do you excel in Physical Education or on the field in your sport, and want to develop leadership skills? This course provides students with the opportunity to develop their communication skills and leadership qualities while working one-on-one with a Physical Education teacher. As a PE intern for the semester, you will learn classroom management skills and an introduction to the field of education. Must obtain cooperating teacher sign-off.
Prerequisite:	PE 9 and any one of the other Physical Education courses

9391 Athletic Leadership NEW!	
Credit(s) 0.5 **9, 10, 11, 12** **SHS** **WHS**	This course is designed for high school student-athletes who aspire to become team captains or leaders within their sports teams. This course will focus on developing essential leadership skills such as communication, conflict resolution, motivation, and team-building strategies, while also emphasizing the importance of integrity, responsibility, and mentorship. Through practical exercises, case studies, and team-oriented projects, students will learn how to inspire and guide their peers both on and off the field. By offering this course, we aim to equip student-athletes with the tools to become effective leaders, fostering a positive and supportive team culture across all sports programs and in life.

9952 - CNA Certified Nursing Assistant (WHS) NEW!	
Credit(s) 1 **Grades 11, 12** **WHS**	This comprehensive program is designed for students to graduate with the skills and knowledge to provide quality health care to residents in nursing homes, assisted living facilities, hospitals, or clients in their own homes. Excel Academy prepares graduates with a solid foundation for rewarding careers in the growing

	health care industry. Students will benefit from small classes taught by proficient, experienced health care professionals. When a student graduates they are eligible to sit for the State exam www.prometric.com/nurseaide/ct.
Prerequisite:	Introduction to Healthcare Occupations and Medical Terminology and Skills

Justin Martinez - Stamford High School

Ryan Adams - Westhill High School

Lauren Leverson - Stamford High School

9208 - First -Year Seminar	
Credit(s) 0.5	First-Year Seminar is a required course that offers ninth-graders relevant skills, tools, and knowledge to navigate high school effectively and informs decisions for life beyond graduation. This course will introduce 9th graders to the culture of their school, focusing on the traditions, activities, and services available. Students will work on academic planning; career development; and explore related post-secondary education and training options. Topics may include study skills/test preparation, goal setting, career pathways, career planning, course selection, conflict resolution, team building, school climate, advocacy, and others.
SHS **WHS**	

900 - Student Aide	
Credit(s) 0.5	With the principal or designee's permission, students work as aides under the direct and continuing supervision of a faculty member to successfully complete the tasks assigned. In addition, students are required to maintain a satisfactory attendance record for the days scheduled. Student Assistants may be engaged by the semester or by the year. Examples of areas in which students may be approved to work include, but are not limited to, Media Center, School Counseling Office, Departmental Offices, or Main Office.
SHS **WHS**	

9706 - Cooperative Work Education	
Credit(s) 1.0	The Stamford Public Schools Cooperative Work Education Program is designed to equip Juniors and Seniors (who will be preferred) with real-world occupational skills as well as a business-oriented curriculum to support a successful transition into the workforce. The Cooperative Work Education program is made up of two components: virtual asynchronous modules and work-based learning experiences. The 0.5 credit virtual CWE class contains a career development curriculum focusing on soft skills at the workplace and discussing workplace-related case studies. Students earn 0.5 - 1 credit (depending on logged work hours) for the work-based learning. This adds up to a combined 1-1.5 credit(s). Students may use their current job and must submit online academic work. The CWE program is open to Juniors and Seniors at SHS and WHS who are interested in learning about the world of work. Approval from an administrator and school counselor is required.
SHS **WHS**	
Prerequisite:	Approval from administrator and school counselor and submission of this form is needed for complete enrollment.

9701/9703- Senior Internship Experience		
Credit(s) 0.5-9701 Credit(s) 1.0 -9703		The Senior Internship Experience (SIE) allows Seniors to explore an area of interest outside the constructs of their formal educational program. By helping foster independence and decision-making skills, the SIE will give students the opportunity to develop and make a smoother transition from high school to college, trade school, the workplace, or military service. The students can explore a career interest or service opportunity in a particular field or self-design their internship experience. Students earn .5 credits for 60 hours or one credit for 120 hours for the internship. Work-based safety training and approval are required before starting the internship.
SHS	**WHS**	

Colin Daugherty - Stamford High School

Ryan Adams - Westhill High School

Terrain Burns - Westhill High School

Joshua Aruni - Stamford High School

Ashley Espinoza - Stamford High School