

WEST HAVEN HIGH SCHOOL PROGRAM OF STUDIES



Policy on Sexual Harassment

It is the policy of the West Haven Board of Education not to tolerate verbal or physical conduct by any person who harasses, disrupts or interferes with another's work or educational environment, or which creates an intimidating, offensive or hostile work or educational environment.

People have a right to participate in all school activities in an atmosphere free from sexual harassment.

Any person who believes him/herself to have been subject to sexual harassment may file a grievance with the Title IX Coordinator in accordance with the Sexual Harassment Grievance Procedure. The West Haven Board of Education designates Mrs. Josephine Agnello-Veley, Director of Personnel, Central Office, as Title IX/Equity Coordinator.

Mrs. Agnello-Veley may be reached at the Administration Building, City Hall, 355 Main Street, West Haven, CT 06516 or at (203) 931-6825.

Policy on Discrimination

The West Haven Board of Education is an equal opportunity agency and does not discriminate in its hiring practices, promotional policies, student relations or educational opportunities on the basis of race, color, national origin, age, sex or physical handicap.

No one will be excluded from participation in, be denied the benefit of or otherwise subjected to discrimination in employment or in any program or activity.

Any person who believes him/herself to have been discriminated against may file a grievance with the Civil Rights Coordinator in accordance with the Discrimination Grievance Procedure. The West Haven Board of Education designates Mr. Joseph Lucibello, Director of Pupil Services, as Civil Rights Coordinator.

Mr. Lucibello may be reached at the Administration Building, City Hall, 355 Main Street, West Haven, CT 06516 or at (203) 937-4333.

Accreditation Statement

West Haven High School is accredited by the New England Association of Schools and Colleges, Inc., a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction.

Accreditation by the New England Association is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, or the competence of the individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institutions.

West Haven High School



Program of Studies

2021-2022

West Haven High School Administration

(203) 937-4360 – Main Number

(203) 937-4370 – Main Fax Number

WHHS Spanish Contact Number

(203) 479 - 3327

Please report student daily absences by logging onto the PowerSchool parent portal and completing the form, “Parent Documented Absence.” or by calling (203) 937-4360, option 2.

Principal

Dana C. Paredes,
A113, Ext. 8020

Administrative Assistant

Yvonne Corrado, Ext. 8005

Assistant Principals

Wendy Charbonneau, A117, Ext. 8023

John DellaCamera, J130, Ext. 8022

Patricia Robles, J128, Ext. 8021

Secretary, Linda Orio, Ext. 8000

Clerk, Stephanie Miller, Ext. 8001

Department Heads

Career and Technology Education Eric Rice, Ext. 5205	Social Studies Mark Consorte Ext. 2115	Master Teachers <u>Business</u> James Farrace, ext. 8203 <u>World Language</u> Martha Jacobs, ext. 4309 <u>Fine Arts</u> Jennifer Lucibelli, ext. 8204 <u>PACE</u> Liam Leapley, ext. 8217 <u>Guidance</u> Holly Benedetti, ext. 1114 Deborah Kachmar, ext. 1114
Special Education and Related Services Roger Erickson Ext. 4138	English Melanie Deninger, Ext. 5109	
Elective Areas Michael Anquillare Ext. 2133	Mathematics Robin Ferreira Ext. 4206	
	Science Kevin Dickson Ext. 2216	

WHHS

Core Values and Beliefs for Learning

The West Haven High School community is dedicated to providing a positive and safe environment that celebrates differences while inspiring students to be self-motivated learners, critical thinkers and effective communicators. We believe all students should have access to 21st- century educational opportunities to prepare them to be responsible, ethical, and contributing members of a global society.

Academic Expectations for Student Performance

West Haven High School Students will focus their learning on:

1. Critical and Creative Problem Solving
2. Constructing and/or Analyzing Arguments Based on Evidence
3. Meaningful and Fluent Communication
4. Digital and Informational Literacy

Social Expectations for Students

West Haven High School Students will focus their learning on:

1. Actively participating, within the school community, both independently and collaboratively.
2. Taking responsibility for their actions and obligations.

Civic Expectations for Students

West Haven High School Students will focus their learning on:

1. Demonstrating respect for themselves and others.
2. Promoting a positive and safe school climate.
3. Promoting and demonstrating the components of a healthy lifestyle.

West Haven High School Honor Code

We, at West Haven High School,
Strive to reflect integrity through:

Honesty – submitting work that is one’s original creation and not assisting others in misrepresenting work,

Respect – acknowledging and respecting the efforts of others and treating them equally,

Responsibility – recognizing the effects of one’s actions and taking responsibility for possible consequences, and

Dedication – working hard to achieve one’s own potential and persevering in the face of obstacles.

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STOP! READ THIS BEFORE YOU GO ANY FURTHER

As the student you have the responsibility of selecting your courses. The school counseling staff, the faculty, and the administration will do whatever they can to assist and guide you in your selections. Please realize that the selections that you will make will affect your program and, ultimately, your future. Before selecting courses consider the following questions:

1. How well have you done in school so far?
2. What subjects are of most interest to you?
3. What are your plans after high school? How do these plans relate to what you have done and plan to do while a student at West Haven High School?
4. Have you looked into the process of college selection or into the possibility of beginning a career immediately after graduation? Have you discussed these with your parents and your school counselor?
5. If you are planning to attend college, are you taking the appropriate courses? If you are an athlete, do the courses meet NCAA standards?

It would be wise for you to talk with the people who could give you some help – your parents, your teachers and your counselor – before selecting courses for next year. The program at West Haven High School is designed to provide the basic education every student needs and to offer specific subjects that meet the personal objectives of the student. Your ability, interests and future plans should serve as the guide as you select courses from the Program of Studies.

A NOTE ABOUT THE PROGRAM OF STUDIES...

Each of the course descriptions consists of two distinct parts: the outcome, which lists the course credit, prerequisites, if any, and describes what a student can expect to learn; and the expectations, which explains what a student will be required to do. Careful consideration should be given to both parts before selecting a course. This is particularly true of electives because the program that you select now is the one you will be expected to follow during the next school year. Make your choices wisely!

COURSE SELECTION PROCESS

- Participate in Program of Studies Day.
- Read the entire Program of Studies carefully.
- Discuss options with your parents, teachers, and your school counselor.
- Complete the Course Selection Sheet, including Alternate Courses.
- Complete online registration.
- Submit the completed Course Selection Sheet to school counseling.

School Counseling

School Counseling Program Expectations:

Every student who graduates from West Haven High School, after participating in the School Counseling Program and taking an active role in his/her Student Success Plan (SSP), should be able to:

- acquire the attitudes, knowledge and skills that contribute to effective learning in school
- employ strategies to achieve success in school and possess knowledge to identify post-secondary options
- understand the relationships to the world of work, and to life at home and in the community
- acquire the skills to investigate future careers in relation to knowledge of self
- employ strategies to prepare them for their future careers
- understand the relationship between personal qualities, education and training, and work
- make decisions, set goals, and take appropriate action to achieve their goals

Appointments with Counselors

- 1) Students may make an appointment with their school counselor in a few ways.
- 2) Students may schedule an appointment in the Counseling Office. Appointments will be scheduled during a student's café/study period.
- 3) In an emergency, classroom teachers may decide to send the student to see their counselor.
- 4) Walk-in Monday, Wednesday and Friday. Students may drop in to see a school counselor during a non-elective period.

Listed below is the WHHS School Counseling Department. You will be assigned to your school counselor based of **YOUR LAST NAME**.

Mrs. Angela Clohessy angela.clohessy@whschools.org	Ms. Norma Merced norma.merced@whschools.org	Mrs. Heather Kannengeiser heather.kannengeiser@whschools.org
Mrs. Heather Doraz heather.doraz@whschools.org	Mrs. Deborah Kachmar deborah.kachmar@whschools.org	Mrs. Holly Benedetti holly.benedetti@whschools.org

Registration of New Students

Unless a student is 18 years of age or emancipated, he/she must be accompanied by a parent when registering as a new student at the high school. Students over the age of 19 may be directed to an alternate program. All new registrants must report to the school counseling office, and must provide satisfactory proof of residency in West Haven, as per Board of Education policy. A student who does not satisfy residency requirements cannot attend school. New students will be assigned a counselor and will select subjects based on needs, ability, interests and availability. New students will be photographed for a Student ID card during the registration. A residency check will be completed for any student who requires an affidavit of residency.

Graduation and Promotion Requirements

Promotion Requirements

The yearly minimum number of successfully completed credits necessary for grade promotion is:

Freshman (9th grade) to Sophomore (10th grade) = **6 credits**

Sophomore (10th grade) to Junior (11th grade) = **12 credits**

Junior (11th grade) to Senior (12th grade) = **19 credits**

Minimum credits during school year: Grade 9 – 7 credits; Grade 10 – 7 credits; Grade 11 – 6 credits; Grade 12 – 6 credits. Any exceptions must be approved in writing by the Principal.

Grades and Course Credit

To earn credit toward graduation in any course, a student is obligated to abide by the attendance policy as established by the school.

Levels of Instruction:

- Competitive College Preparatory Courses (Advanced Placement, Honors): Students who enroll in these courses exceed standards in the content area and are offered the opportunity to engage in college level study in several disciplines as part of the College Board's Advanced Placement Program. Students must demonstrate superior aptitude and achievement and a willingness to commit to considerable independent study. The pace of instruction is rapid and topics are explored in greater depth. Students are expected to complete independent research, group work, and long-term assignments.
- Accelerated College Preparatory Courses (Level 1): Students who enroll in these courses are meeting standards in the content area and have demonstrated a high level of academic aptitude and achievement. Emphasis is placed on guiding students in the development of critical thinking skills and the capacity for independent work. Students are expected to do both independent and group projects along with long-term assignments.
- College Preparatory Courses (Level 2): Students who enroll in these courses are approaching the standards in the content area. Instructional practices are varied to engage students with different learning styles. Emphasis is placed on developing a strong understanding of fundamentals, capacity for independent and critical thinking, and learning skills necessary for more advanced study. Assignments provide students with practice in working with new concepts, reviews of previously learned material and structure in their learning process. Long-term assignments are frequently broken down into several components.

All course offerings will be based upon staff availability and minimum number of requests as set by the Superintendent of Schools or his/her designee. Please be sure to read the section: **Schedule Changes and Dropping/Adding of Subjects in the Parent-Student Handbook**. This policy is strictly adhered to. Any questions about the process should be referred to the student's school counselor.

Schedule Changes

Students register in the spring for the coming school year and should choose wisely, as they will be held to their choices. Schedule changes may only be made per the policy and dates as listed on the student semester schedule.

Academic schedule changes require completed add/drop form available in Power School.

Students must maintain the minimum of 7 credits (Grade 9); 7 credits (Grade 10); 6 credits (Grade 11); 6 credits (Grade 12) as it relates to the dropping of any course.

NCAA Clearinghouse

Student athletes interested in pursuing collegiate athletics should be making appointments to speak with Mrs. Kachmar in school counseling or Jon Capone, Athletic Director. The student athlete will create a four-year plan that is appropriate for the division of interest in collaboration with Jon Capone. Prospective division I, II, & III collegiate athletes are required to go through the NCAA Clearinghouse for eligibility. For more information regarding NCAA eligibility, please visit www.eligibilitycenter.org.

Division I	Division II
<u>16 Core Courses</u> 4 years of English 3 Years of Math (Algebra I or higher) 2 years of Natural/Physical Science (1 year of lab if offered) 1 year of additional English, Math or Natural/Physical Science 2 years of Social Science 4 years of additional courses (any area above, foreign language or comparative religion/philosophy)	<u>16 Core Courses</u> 3 years of English 2 Years of Math (Algebra I or higher) 2 years of Natural/Physical Science (1 year of lab if offered) 3 year of additional English, Math or Natural/Physical Science 2 years of Social Science 4 years of additional courses (any area above, foreign language or comparative religion/philosophy)

NCAA core course designation is indicated in the course listings at the beginning of each area denoted by course number in the NCAA column. Students who plan or aspire to compete in collegiate athletics, should speak with the athletic director to assure that your course load meets NCAA requirements.

Extra-Curricular Eligibility Rule

In order for a student to participate as a member of an athletic team, club or a school committee, a 2.0 GPA must be maintained as evidenced by the report card of the previous marking period. Students must, also, carry 6 credits per school year unless specifically exempted by the principal. The grade as reported on the student's report card is the official grade for the term.

“C” Rule Eligibility = 2.0 or above

Graduation Requirements – Class of 2022

All students are required to take and successfully complete twenty-four (24) credits for graduation. The following course distribution requirements are needed by all students to be eligible for graduation.

A student must successfully pass the following:

<u>Credits</u>	<u>Subject</u>
4	English
3	Mathematics
	❖ All students are required to take Algebra I, Algebra II and Geometry (minimum 3 credits)
3	Social Studies
	❖ .5 credits must be Civics or its equivalent
	❖ 1 credit must be United States History or its equivalent
3	Science
	❖ 1 credit life science
	❖ 1 credit physical science
	❖ 1 elective
	❖ STEM Project Lead the Way Courses may count towards Science credit with administrative permission.
1	Physical Education/Health

- ❖ Students are required to take and pass PE twice while attending WHHS,
Fall or Spring of Sophomore year is required
- 1 Art or Career and Technical and Life Skills Education
- 9 Electives that must include .5 credit in computer or technology education*
- 24 credits

Graduation requirements- Class of 2023, 2024 and 2025

All students are required to take and successfully complete twenty-five (25) credits for graduation. The following course distribution requirements are needed by all students to be eligible for graduation.

Including not fewer than:

- (A) 9 credits in the humanities, including civics and the arts;
- (B) 9 credits in science, technology, engineering and mathematics;
- (C) 1 credit in physical education and wellness;
- (D) 1 credit in health and safety education;
- (E) 1 credit in world languages*; and
- (F) 1 credit mastery-based diploma assessment **

*World Language taken and passed in grade 8 can be applied towards graduation requirement.

** The West Haven High School Achieve *Blue* program (mastery-based diploma assessment) will fulfill the 1 credit, state mandated graduation requirement starting with the Class of 2023. The *Achieve Blue* program will focus on individual student learning through application of critical knowledge and real world experience that students will use to make a difference in the world today.



Courses that satisfy the Computer or Technology Education Requirement:

- | | |
|--------------------------------|---|
| Advanced Computer Aided Design | Introduction to Computer Aided Design |
| Advanced Graphic Design | Microsoft Office |
| Any Odyssey Course | Mobile App Game Design I or II |
| AP Computer Science | PLTW Biomedical Science Course |
| Digital Media and Journalism | STEM Project Lead the Way Engineering Courses |
| Graphic Design I | |
| Introduction to Coding | Webpage Design |

Physical Education Waiver:

Any student who presents a certificate from a physician stating that physical education is medically prohibitive will be excused from physical education. A program will be provided by the Physical Education Department to meet the student's needs.

Community Service:

- Students are encouraged to do a minimum of forty (40) hours of Community Service each year.
- Seniors are encouraged to complete a minimum of forty (40) hours of community service prior to May 1st of their senior year in order to receive recognition at graduation.

State Assessment:

All grade 11 students are required to take Connecticut SAT and NGSS.

Options if Graduation Requirements are not met:

Seniors who are not eligible for graduation with their class due to an area of deficiency in meeting the district graduation requirements, as per policy, may select one or more of the following options depending on the area of deficiency:

- Enroll in adult education program (if eligible)
- Enroll in an approved college course
- Enroll in summer school and pass the requirement
- Enroll in an online Odysseyware course (if eligible)
- Return in September as a fifth-year student

West Haven High School Summer School Policy

West Haven High School Summer School is a fee-based program for high school students to make up courses that were not passed during the academic year.

Explanation of Course Grades

Grades range from A+ to F, with D- being the minimum passing mark. Class rank, (see below) is determined by assigning quality points to grades and giving weighted grades designated by honors and advanced placement. Only grades earned at West Haven High School are considered when calculating class rank at West Haven High School. With the exception of Educational Center for the Arts (ECA), any grades transferred from any other source will not be credited toward class rank or GPA. Student report cards and transcript reflect both weighted and unweighted GPA.

Grade Scale

Grade	Numeric Average	GPA Calculations	QUALITY POINTS - weighted for class rank and for honor roll	
		All Courses	Honors	Advanced Placement
A+	97-100	4.33	5.2	5.41
A	93-96	4	4.8	5
A-	90-92	3.67	4.4	4.59
B+	87-89	3.33	4	4.16
B	83-86	3	3.6	3.75
B-	80-82	2.67	3.2	3.34
C+	77-79	2.33	2.8	2.91

C	73-76	2	2.4	2.5
C-	70-72	1.67	2	2.09
D+	67-69	1.33	1.5	1.66
D	63-66	1	1.2	1.25
D-	60-62	.67	.8	.84
F	0	0	0	0
Weight Multiplier		1	1.2	1.25

Class Rank

To be eligible for class rank or for any honors pertaining to class rank, the student must be enrolled and taking classes at West Haven High School for a minimum of nine (9) marking periods. **Only classes taken at West Haven High School count towards class rank and GPA.**

Honors/AP Awards Recognition

Honors and Advanced Placement courses at West Haven High School are challenging yet rewarding. Each course demands a tremendous commitment of time and effort by both students and teachers. Students who accept this challenge and maintain a B average through the 3rd marking period of the school year (including the mid-term, if applicable) will be recognized at a year-end ceremony, provided that they are students in good standing (attendance and discipline). WHHS will seek community corporate sponsorship to assist in the funding and implementation of this annual celebration.

- The **first time** a student successfully maintains a B average in an Honors course through the 3rd marking period, he/she will receive a Certificate of Recognition.
- The **second time** a student successfully maintains a B average in an Honors course through the 3rd marking period, he/she will receive a pin.
- The **third time** a student successfully maintains a B average in an Honors course through the 3rd marking period, he/she will receive a hoodie sweatshirt.
- The **fourth time** a student successfully maintains a B average in an Honors course through the 3rd marking period, he/she will receive a gold cord to be worn at graduation.

Students who would like courses taken outside of West Haven High School considered for this honor MUST submit a copy of their transcript and a course description for the course(s) they would like considered. This information must be submitted to the principal by March 1st yearly.

College Entrance Examinations

Most colleges in the eastern part of the United States require the SAT Reasoning Test for admission. The West Haven Board of Education offers the Preliminary Scholastic Assessment Test (PSAT) to all sophomores and juniors and the PSAT 8/9 to all freshmen in October. The Connecticut SAT (without writing) will be given to all juniors in April during the school day. These scores MAY be used in college admission, but most colleges would like students to take the test with writing, so students should test again in May as well as in either October or November of their senior year.

Competitive colleges may also require students to take the College Board SAT II Subject Tests. These are one hour tests in particular subject matter areas. Students who plan to apply for early admissions to prestigious schools should take both the SAT & SAT II tests in the spring of their junior year. Some sophomores might even consider taking the SAT II. Students may not take both the SAT and SAT II tests on the same date.

For more information on this, as well as a comprehensive view of the Admissions Testing Program, students and families are urged to pick up and read over the various College Board publications available

in the school counseling offices. Additionally, some colleges may require ACT scores. It is the student's responsibility to take the appropriate tests in a timely fashion.

NOTE: SAT/ACT scores must be sent to the colleges directly from the College Board and ACT.

Community Service Hours

The purpose of our Community Service Program is to give our students opportunities to have a positive impact on the local West Haven Community as a whole, learning that service to others is an on-going part of life.

Through this program, we desire to demonstrate our commitment to the community while giving students work experience. It is recommended that students complete forty (40) hours of community service every year.

Seniors are encouraged to complete a minimum of forty (40) hours of community service prior to May 1st of their senior year in order to receive recognition at graduation.

Independent Study Program

Independent Study is an educational opportunity for students who have indicated ability and serious interest in a particular project or subject area which cannot be pursued specifically or in depth in any one of the regular curricular course offerings. It affords up to .5 credits for successful completion of a semester's work and may be carried on for either one or two semesters, depending on the nature and extent of the work involved. Students must adhere to guidelines as established by the Independent Study Program. Interested students should contact the subject teacher, department head, independent study program coordinator, or school counseling department for further information. Students must carry a minimum of six (6) credits in addition to Independent Study.

Independent Study for Honors credit is offered only to juniors and seniors. Given the wide variety of courses in the honors program, independent study is geared towards those students who have participated in the program and are looking for academic challenges that go above and beyond what is offered in the course selection book. Students who have not successfully completed at least one honors course per year are not eligible for Independent Study for Honors credit. In order to receive honors credit for independent study, approval must be given by the West Haven High School Committee for Honors/Advanced Placement. Requests for Independent Study for Honors credit must be submitted before October 15 for fall credit or January 6 for half credit in the second semester.

The following steps are necessary for the presentation:

- The independent study request form must be properly filled out before presentation, including all signatures, except for the Honors Committee chairperson and the independent study administrator.
- The teacher and the student must make the presentation to the committee.
- The presentation must specifically address the reason that the course deserves honors distinction, and must prove that no other similar, current course is offered. Data should include course goals, objectives, and methods of assessments.

Work Study Program

The work study program will provide students with an opportunity to gain academic credit by working within the school to provide clerical or organizational help.

Work study grades will be on a pass/fail basis.

- 120 hours = 1 credit (5 periods/week for 30 weeks)
- 60 hours = .5 credits (5 periods/week for 15 weeks)

Students must carry a minimum of six (6) credits in addition to work study. Students will need to follow guidelines as established by the work study program coordinator. Request for work study credit must be submitted by October 15 for full credit or January 20 for .5 credits in the second semester. Students cannot receive credit for both work study and independent study in the same academic year.

Teachers Assistant Honors Program

The Teacher Assistant Honors Program allows students who have excelled in a content area to share their knowledge with other students. Teacher Assistants (TAs) are expected to be well versed in daily class content, and able to communicate that content to other students. TAs are expected to be prepared for class daily. TAs are expected to respect all students in the classroom as if they are another adult in the room. TAs must communicate and collaborate with their partner teacher in order to be well prepared for each lesson. TAs will also report back to the TA advisor. The program is open to students in grades 11 and 12.

Qualifications:

- At least a 3.0 GPA in the content area you will work in
- No serious disciplinary issues
- The ability to communicate effectively with both faculty and peers

This class will count as an “Honor’s Class” as it relates both GPA and Awards Ceremonies.

Students may elect to take the class for one or two credits (a single period or two periods) however, it will only count as one class toward the accumulation of honors courses.

Students do not have to have taken an honors level courses previously provided they meet GPA requirements. **An interview is required.**

Special Programs

English as a Second Language (ESL)

The ESL program exists to fulfill the needs of those students for whom English is not their native language. This program is offered through the World Language Department and attempts to teach students the basics of English. During the time students are enrolled in ESL, they are required to enroll in English classes as well.

Advanced Placement (AP) Program

The Advanced Placement Program is a cooperative educational endeavor between secondary schools and colleges and universities. It allows high school students to undertake college-level academic learning in AP courses, and gives them the opportunity to show that they have mastered the advanced material by taking AP exams. Students can receive credit, advanced placement, or both from thousands of colleges and universities that participate in the advanced placement program. All advanced placement courses are weighted. All students enrolled in AP classes must take the AP exam in the spring in order to receive credit.

Advanced Placement (AP) Courses are offered in Art History, English Language & Composition, English Literature, Biology, Chemistry, Physics I, Physics II, Environmental Science, Calculus, Computer Science, Statistics, United States History, U.S. Government, and Psychology. These courses are designed to stimulate secondary students, promote high achievement, and provide a means of obtaining college credit and appropriate placement in college.

Each course prepares students to take the Advanced Placement examination. These examinations, administered nationally each spring by the College Board, offer college placement and/or credit to any student who achieves the score designated by the college he/she is entering.

Students electing an Advanced Placement course will have a required summer reading list and/or assignment for the course. It is expected that students will return to school with the summer reading assignment completed. It should be noted that an AP course may not be scheduled if fewer than 12 students elect to take it.

College Board (Advanced Placement) and Project Lead the Way

The College Board and Project Lead The Way partnered to create the Advanced Placement Program (AP) + Project Lead The Way (PLTW) program in order to encourage student participation in science, technology, engineering, and math (STEM) courses and provide greater access to opportunities for students. The two organizations recognize the importance of preparing more students, earlier, to pursue

STEM degrees and careers. To earn the recognition, a student must satisfactorily complete three courses in the pathway — one AP course; one PLTW course; and a third course, either AP or PLTW — and earn a qualifying score of 3 or higher on the AP Exam(s) and a score of Proficient or higher on the PLTW End of Course assessment(s). More information can be found in the Project Lead the Way section of the program of studies.

Project Lead The Way

Project Lead The Way (PLTW) is the leading provider of rigorous and innovative Science, Technology, Engineering, and Mathematics (STEM) education curricular programs across the United States. STEM (Science, Technology, Engineering, and Mathematics) education is at the heart of today's high-tech, high-skill global economy. For America to remain economically competitive, our next generation of leaders -- the students of today -- must develop the critical-reasoning and problem-solving skills that will help make them the most productive in the world.

PLTW allows students to enroll in a wide range of courses that engage students in activities, projects, and problem-based (APPB) learning. Students are given the opportunity to utilize applied technology. Students create, design, build, discover, collaborate and solve problems while applying what they learn in math and science. Students are also exposed to STEM fields through a wide range of connections to business, industry, colleges and universities. Students can benefit greatly from the knowledge, logical thought processes and team work that result from taking one, some, or all of the courses provided in the PLTW program.

PLTW courses can be taken for regular or honors credit, and it is possible to earn college credit for each course.

Honors Program

Honors courses are instructional programs designed for students who are capable of learning advanced content in specific subject areas. The range and depth of study in these courses are extensive and demanding. Students who apply for enrollment in honors courses are, in effect, making a commitment of time and effort exceeding the demands of regular high school courses.

All honors courses meet criteria established by the honors committee and accepted by the Board of Education. All honors courses are weighted.

Blended Learning

The Blended Learning Program affords students who have not been successful in a traditional classroom the opportunity to achieve success in an alternative setting. The program combines online learning with teacher support to allow students who have not been successful in a teacher directed environment to meet with success. The goal of the program is to give students the skills and credits needed to transition successfully either back into traditional school, or into adult education. The program meets daily from 2:00PM to 4:30PM at West Haven High School. Bus transportation is provided. Students enrolled in this program do not attend traditional day school.

PACE

Students who are enrolled in the PACE program are participating because they have had difficulty succeeding in the regular setting. The PACE program offers credit recovery and an intensive support system so that these students can learn the appropriate skills and behaviors needed to be successful in high school and beyond. The PACE program takes a unique “outside the box” approach to teaching and learning in order to re-engage students in their own education with a focus on college and career readiness.

ODYSSEYWARE

Odysseyware is a web based program that affords students the opportunity to take courses online in order to recover credits that may have been lost due to academic failure or attendance. Students may also take classes for enrichment that they cannot fit into their daily schedule. Currently, Odysseyware courses are

not calculated into student grade point averages. During the summer, only elective classes may be taken online, one per year, unless permission is received from the Principal.

UNH Charge into the Future

The partnership, called “Charge into the Future” program, will provide a half-tuition scholarship for any student graduating from West Haven High School who is admitted as a full-time student to the University of New Haven. The UNH scholarships, which include need and merit-based awards, will be offered to students in addition to any federal, state or externally funded awards for which they may qualify. Eligible students can take one college course each semester (two college level classes per year) at the University of New Haven campus at no cost. This program is designed to allow motivated high school juniors and seniors to sample the rigor of college academics, and earn college credit, while attending high school. This opportunity will provide students a jump start on their college education even if they do not enroll at UNH.

Dual Enrollment-College Career Pathways Program with Gateway Community Colleges and Other CT Community Colleges

The Dual Enrollment/College Career Pathways Program is an academic program that provides participating high school students the opportunity to take college credit courses at Gateway Community College (GCC). Approved West Haven High School courses can be taken for Connecticut Community College credit. Students can obtain college credit for this program by enrolling in one (1) of the following:

- taking a high school course taught by a GCC approved teacher.
- taking a GCC class at GCC in the afternoon (extended day).
- taking a GCC class during the school day as dual enrollment for dual credit at both GCC and West Haven High School.

West Haven High School is currently working towards getting various classes approved, to be offered for GCC credit. West Haven High School currently has the following courses articulated with Gateway Community College: Culinary Arts, Early Childhood Education, C.N.A. Experience, Careers in Healthcare, WHHS 390 Elementary Algebra for Gateway Community College, and WHHS 392 Intermediate Algebra for Gateway Community . West Haven High School anticipates the approval of Automotive Systems articulation this year. Additional courses will be made available to West Haven High School students upon approval.

Criminal Justice Cohort

The Criminal Justice Cohort is for students who have a serious interest in pursuing a career in law, law enforcement, or a related field. Students enrolled in the Criminal Justice Cohort will take related classes in three of the four core areas. This program is pending articulation with the University of New Haven.

Science: Forensic Investigation

Grade 11,12

This class will focus on using science to solve a mystery through scientific means such as: DNA, blood spatter patterns, fingerprints, insect activity and temperature analysis.

Social Studies: Crime and Punishment

Grade 11,12

This class will focus on the judicial process, including courtroom proceedings, trials and criminal law. This class is a component of the criminal justice cohort, which will utilize cross-curricular ideas to explore the field of criminal justice. This program will run in conjunction with partnerships with the West Haven Police Department and the University of New Haven.

English: True Crime**Grade 11, 12**

This class will focus on the reading of novels and non-fiction literature that depict true crime. This class will culminate in a project that allows the student to assume the role of the detective and take a crack at solving an unsolved crime.

In addition to the academic classes, students in this cohort will be exposed to guest speakers, field trips, and special events related to the field of criminal justice. Students who successfully complete the cohort will receive a certificate of completion and a special designation on their transcript.

Course Offerings

The West Haven Department of Education supports the principle of gender equity in all its course offerings, and will make a concerted effort to foster that principle throughout its program of study.

All courses are one (1) full credit unless otherwise noted.

English

No.	Course	Grade				NCAA	Credit	
		9	10	11	12			
EN 0101 EN 0102	English 1	9				EN 0101 EN 0102	1.00	H
EN 0025	Comparative History & Literature (CHAL) Honors	9				EN 0025	1.00	H
EN 400	Genres in American Literature (PACE)	9	10			EN 400	2.00	H
EN 001	ESL Beginning Reading & Writing	9	10	11	12		1.00	H
EN 0028	Digital Media & Journalism	9	10	11	12	EN 0028	1.00	H
EN 0201 EN 0202	English II		10			EN 0201 EN 0202	1.00	H
EN 0041	Images of America - Honors		10			EN 0041	1.00	H
EN 0067	Advanced Digital Media & Journalism		10	11	12	EN 0067	1.00	H
EN 0301 EN 0302	English III			11		EN 0301 EN 0302	1.00	H
EN 0030	Masterpieces of British Literature - Honors			11		EN 0030	1.00	H
EN 0064	Advanced Writers Workshop for the Writing Coach			11	12			H
EN 0063	True Crime - Cohort Only			11	12	EN 0063	1.00	H
EN 0049	ECE - Seminar in Academic Writing			11	12		1.00	H
EN 0062	AP English Language and Composition			11	12	EN 0062	1.00	H
EN 0050	AP English Literature and Composition			11	12	EN 0050	1.00	H

EN 0060	English IV - Brave New Worlds				12	EN 0060	1.00	H
EN 0057	English IV - Communications				12	Pending	1.00	H
EN 0055	English IV - Fairy Tales, Myths & Legends				12	EN 0055	1.00	H
EN 0056	English IV - Film as Literature				12	EN 0056	1.00	H
EN 0069	English IV - Mystery and Suspense				12	EN 0069	1.00	H
EN 0075	English IV - Women's Studies				12	EN 0075	1.00	H
EN 0401 EN 0402	English IV - World Literature				12	EN 0401 EN 0402	1.00	H
EN 0027	Humanities - Honors				12	EN 0027	1.00	H

English I

EN 0101 Level 1

EN 0102 Level 2

English I is a comprehensive English course that focuses on reading, researching, writing, analyzing, speaking and language skills. Students are expected to actively engage in the learning process both collaboratively and independently. Students will read and comprehend a wide variety of literary forms including short stories, nonfiction, poetry, drama, and novels, using spoken and visual texts. The study of language targets usage, mechanics, and strategies for vocabulary development integrated into literature and composition components. English I is designed to build on the essential academic skills that will support students' success in high school and build future pathways to post high school and higher education.

Grade 9

1.00 credit

EN 0025 Comparative History and Literature (CHAL) Honors

Grade 9

1.00 credit

Prerequisites – It is recommended that students will have performed at a "B" or better average and have a teacher recommendation from their previous class.

This course uses a cooperative, interdisciplinary model that will encourage cultural and experiential reference points, and worldview in the process of learning. Students will explore a variety of peoples, events, and movements in world history with a focus on fiction and nonfiction writing as a means to investigate differing perspectives and personal experiences. Students are required to write several papers, complete independent readings and research, and utilize key terms and vocabulary throughout the course. This course meets both the English and Social Studies required. Students will receive 1 credit of English and 1 credit of Social Studies.

EN 400 Genres in American Literature

Grade 9, 10

2.00 credits

Focuses on an in depth study of the different genres used by American writers throughout history and during the modern era. Students will study the play, the novel, the memoir, the short story, the vignette and the poem. This is part of the course sequence in the PACE program.

EN 001 ESL – Beginning Reading and Writing

Grades 9, 10, 11, 12

1.00 credit

This is a Basic English course for speakers of other languages who have little or no knowledge of English. Vocabulary and basic structures are learned, simple reading selections are introduced and written exercises are done on a daily basis. All exercises are reinforced by oral practice.

EN 0028 Digital Media and Journalism**Grade 9, 10, 11, 12****1.00 credits**

In today's society we get our news through newspapers, magazines, television, radio, social media, podcasts and media sites that manage to incorporate several of these platforms all in one place. This course will help students create their own content for this multi-media age. Students will start by learning the fundamentals of creating a news story (picking intriguing story angles, conducting interviews and crafting compelling and error-free pieces of journalism). Students will then work with their classmates to produce their stories in a variety of ways, enhancing written stories through the use of videography, photography and social media. Students will become adept at identifying trustworthy sources, peer-collaborating and working under deadline pressure. This course is open to any student who loves storytelling in a variety of ways. Meets the English IV requirement.

English II**Grade 10****EN 0201 – Level 1****1.00 credit****EN 0202 – Level 2**

Prerequisite – The successful completion of English I (may be taken concurrently with English I, if English I not passed.)

English II is a comprehensive English course that focuses on reading, researching, writing, analyzing, speaking and language skills. Students are expected to actively engage in the learning process both collaboratively and independently. Students will read and comprehend a wide variety of literary forms including short stories, nonfiction, poetry, drama, and novels, using spoken and visual texts. The study of language targets usage, mechanics, and strategies for vocabulary development integrated into literature and composition components. English II is designed to build on the essential academic skills that will support students' success in high school and build future pathways to post high school and higher education while building on skills from previous English courses.

EN 0041 Images of America – Honors**Grade 10****1.00 credit**

Prerequisites – It is recommended that students will have performed at a "B" or better average and have a teacher recommendation from their previous class.

This course will cover selected material from the English II curriculum as well as considerable outside reading assignments. It provides an extensive examination of American literature and composition. Students electing the course must be willing to write several papers and do a great deal of reading. The course will seek to trace the development of American life from the pre-colonial period to the present day through literature, art, music, and architecture.

EN 0067 Advanced Digital Media and Journalism**Grade 10, 11, 12****1.00 credit**

This class will be the news hub of West Haven High School. Students will produce stories, videos, photo galleries and podcasts for our student-news site, whhsnews.com. The course requires students who are self-starters and can find and produce stories our community will want to read. The class will also be in charge of producing a weekly newsletter that will be sent to parents. Students will collaborate on projects and will edit each other's work. Prerequisites: grade of A or B in Digital Media and Journalism I; interview by course teacher; approval by course teacher, English department head and principal. Possibility of Quinnipiac partnership for students to earn 3 credits (\$150).

English III**Grade 11****EN 0301 – Level 1****1.00 credit****EN 0302 – Level 2**

Prerequisite – The successful completion of English II (may be taken concurrently with English I or II if not previously passed.)

English III is a comprehensive English course that focuses on reading, researching, writing, analyzing, speaking and language skills. Students are expected to actively engage in the learning process both collaboratively and independently. Students will read and comprehend a wide variety of literary forms including short stories, nonfiction, poetry, drama and novels, using spoken and visual texts. The study of

language targets usage, mechanics, and strategies for vocabulary development integrated into literature and composition components. English III is designed to build on the essential academic skills that will support students' success in high school and build future pathways to post high school and higher education while building on skills from previous English courses.

EN 0030 Masterpieces of British Literature –Honors

Grade 11 **1.00 credit**

Prerequisites – It is recommended that students will have performed at a "B" or better average and have a teacher recommendation from their previous class.

This course explores the development of British literature from its beginnings in the Anglo-Saxon period through the Middle Ages and Elizabethan Age including such works as Beowulf, Canterbury Tales, Othello and Macbeth, and Shakespearean sonnets. The study of British literature examines major works of outstanding poets from the metaphysical school of writing through the restoration and neoclassical periods into the Romantic, Victorian, and Modern periods. Work studied will include *Paradise Lost*, *Gulliver's Travels* or *Through the Looking Glass*, *A Tale of Two Cities*, and *Lord of the Flies*.

EN 0064 Advanced Writer's Workshop for the Writing Coach

Grade 11, 12 **1.00 credits**

Prerequisites – recommendation from current English Teacher and meeting with Course Instructor

This course will be two fold. It will introduce collaborative, student-centered learning to tutors as well as include the study of best practices in writing. Students will study the writing process, engage in readings about the theory and practice of effective tutoring, and conduct mock tutoring sessions in preparation for actual coaching sessions. Students will also engage in the writing process by honing their own reading and writing skills in the creation of multiple pieces. Students will spend time in a classroom setting as well as be scheduled for one-on-one tutoring appointments, monitor the writing center, and push into classrooms.

EN 0063 True Crime- Cohort Only

Grade 11, 12 **1.00 Credit**

The purpose of this class is to read about, listen to, view and discuss true crime stories. We will examine stories about criminals, victims, trials and investigations from history and from current cases. We will explore cases that exemplify miscarriage of justice; we will examine due process and the trial system; we will research unsolved murders and investigate the psychological profile of psychopaths. Students will complete research assignments on famous killers in history and will make presentations about the modus operandi of serial killers and how police investigators stopped them. We will research crimes that have happened in CT and crime statistics in West Haven. We will watch films, listen to podcasts, read news articles, watch true crime TV, and read fiction based on true events. True Crime will compliment Forensic Investigations and Crime and Punishment. Many ideas will be reinforced in all three classes. Meets English IV requirement. Elective – Grade 11

EN 0049 ECE- Seminar in Academic Writing

Grade 11, 12 **1.00 credit**

UConn Early College Experience provides opportunities for high school students to take college courses while still in high school. The UConn ECE curriculum is designed to offer a variety of general education courses that appeal to a diverse group of students. These challenging courses allow students to experience college work, build confidence in their readiness for college, and earn college credits that provide both an academic and a financial head-start on a college degree. Instruction in academic writing through interdisciplinary reading. Assignments emphasize interpretation, argumentation, and reflection. Revision of formal assignments and instruction on grammar, mechanics, and style. Priority given to seniors. Four college credits (\$200).

EN 0062 Advanced Placement English Language and Composition

Grade 11, 12 **1.00 credit**

Prerequisites – It is recommended that students will have performed at a "B" or better average and have a teacher recommendation from their previous class.

This is an intensive course that assesses the student's ability to read and write through a rhetorical lens and demonstrate an understanding of semantic, structural, and rhetorical aspects of language and the principles of effective writing. College credit may be obtained by passing the ETS-Advanced Placement Exam given in May and is the equivalent of a college level freshman English course. Taking the AP English Language and Composition exam is required.

EN 0050 Advanced Placement English Literature and Composition

Grade 11, 12

1.00 credit

Prerequisites – It is recommended that students will have performed at a "B" or better average and have a teacher recommendation from their previous class.

This is an intensive course that assesses the student's ability to read selected poems and prose passages analytically and to write critical or analytical essays based on poems, prose passages, complete novels and plays. College credit may be obtained by passing the college board – Advanced Placement Exam given in May. Taking the AP English Literature and Composition exam is required. AP Literature and Composition fulfills the senior English requirement and is the equivalent of a college level freshman literature course.

EN 0060 English IV- Brave New Worlds

Grade 12

1.00 credit

Prerequisite – The successful completion of English I, II, and III (may be taken concurrently with English III).

This course will explore the worlds of science fiction, post-apocalypse, and dystopia through readings in fiction. Paying particular attention to the historical context and societal conditions in the creation of the literature under consideration. Looking closely at literary imaginings of fictional worlds that are grappling with, responding to, and reimagining the social, political, and overall conditions of the world their authors and readers inhabit. Who are we as a society? Who do we want to be? Who are we afraid we might become? When these questions are framed, you won't find easy answers, but you will find tremendously insightful and often entertaining perspectives. Meets English IV requirement

EN 0057 English IV- Communications

Grade 12

1.00 credit

Prerequisite – The successful completion of English I, II, and III (may be taken concurrently with English III).

This course provides an in-depth study of the various methods of communication and mass media. Students will examine verbal and nonverbal communications, self-image and identity, interpersonal relationships, and persuasion and propaganda, with an emphasis on public speaking. Readings, video screenings, oral presentations, and written reports are required. Emphasis will be on college preparatory writing and increasing vocabulary. Meets English IV requirement.

EN 0055 English IV- Fairy Tales, Myths, and Legends

Grade 12

1.00 credits

Prerequisite – The successful completion of English I, II, and III (may be taken concurrently with English III).

With popular teen shows like Teen Wolf, Vampire Diaries, Once Upon a Time, and Grimm, fairy tales, myths and legends have regained mainstream popularity with young adult audiences – but why? This course will study the psychological, political and sociological motives and effects of fantasy literature on targeted audiences. Various texts, media and literary theories will be explored throughout an historical context to understand the enduring appeal of fairy tales, myths, and legends on our culture. Emphasis will be on college preparatory writing and increasing vocabulary. Meets English IV requirement.

EN 0056 English IV- Film as Literature

Grade 12

1.00 credit

Prerequisite – The successful completion of English I, II, and III (may be taken concurrently with English III).

Critical Perspectives in Literature and Film is a course designed to develop students' critical thinking and analytical skills by examining important works of both film and literature. Students will use their

knowledge of literature and literary devices to deconstruct film and literature through discussion, essays and projects. The course will look closely at writers' techniques from short stories, novels, and poetry, as well as filmmakers' use of cinematography. Students will examine how writing and filmmaking techniques function to comment on certain social phenomena. Meets English IV requirement.

EN 0069 English IV- Mystery and Suspense

Grade 12 **1.00 credit**

Prerequisite – The successful completion of English I, II, and III (may be taken concurrently with English III).

This course will provide students an opportunity to read, analyze, and discuss a variety of novels of mystery and suspense. Novels will include examination of the elements of good mystery and suspense writing including the cliff hanger, the red herring, foreshadowing, and suspense. Selections will include novels of mystery and suspense as well as a look at the beginning of formula fiction mysteries. Meets English IV requirement.

EN 0075 English IV- Women's Studies

Grade 12 **1.00 credit**

Prerequisite – The successful completion of English I, II, and III (may be taken concurrently with English III).

This comprehensive course examines the position of women and the role of gender in the United States. A number of issues are covered including the eight major events in American women's history, the roles of women in the American family, popular culture, and the workplace. We also examine the experiences of women across the world and their portrayal in literature. Students will read a range of fiction and nonfiction written by and about women. Students use a wide range of learning activities to make lessons meaningful and memorable. Short projects, persuasive essays, group research and debates are important aspects of this course. Students may elect to take this course for honors credit. Those who do will complete additional critical analyses and writing assignments. Meets English IV requirement.

English IV-World Literature

Grade 12

EN 0401- Level 1

EN 0402- Level 2

1.00 credit

Prerequisite – The successful completion of English I, II, and III (may be taken concurrently with English III).

World Literature is a comprehensive English course that focuses on reading, researching, writing, analyzing, speaking and language skills. Students are expected to actively engage in the learning process both collaboratively and independently. Students will read and comprehend a wide variety of literary forms including short stories, nonfiction, poetry, drama and novels, using spoken and visual texts from around the world. World Lit builds on skills from previous English courses while preparing students for the rigors of post high school education and the challenges of life after high school. Meets English IV requirement.

EN 0027 Humanities – Honors

Grade 12 **1.00 credit**

Prerequisites – It is recommended that students will have performed at a "B" or better average and have a teacher recommendation from their previous class.

This course is an exploration into the essence of humanism: the mind of man as exemplified through his thought, creations, and experiences in philosophy, art, history, music, literature, religion, drama, and architecture. Students are required to write several papers and do independent research and reading in depth. Homework is an important element in this course. Students will be required to prepare oral presentations incorporating technology as part of the course.

grades. The final unit in the course ties together the algebraic and geometric ideas studied. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

MA 0201 Algebra II

Grades 10, 11 **1.0 credit**

Prerequisite: Successful completion of Algebra I.

Algebra II continues the study of Algebra through an in-depth development of functions, polynomial functions, rational expressions, rational functions, trigonometric functions, exponential and logarithmic functions, and inferential statistics.

MA 0636 Algebra II Honors

Grades 9, 10, 11 **1.0 credit**

Prerequisite: Successful completion of Algebra I. Can be taken concurrently with Geometry. In general, students will have performed at a "B" or better average and have teacher recommendation from their previous class.

Algebra II Honors offers an in-depth development of functions, polynomial functions, rational expressions, rational functions, trigonometric functions, exponential and logarithmic functions, and inferential statistics. Application problems and the solution of non-routine problems are emphasized.

MA 0301 Geometry

Grades 10, 11 **1.0 credit**

Prerequisite: Successful completion of Algebra I. Can be taken concurrently with Algebra II Honors.

In Geometry, the student is taught to understand the nature of deductive proof and the use of logical sequence through the study of transformations, the coordinate plane, congruence, constructions, polygons, similarity, and circles. The concepts of plane geometry will be applied to everyday situations.

MA 0626 Geometry Honors

Grades 10, 11 **1.0 credit**

Prerequisite: Successful completion of Algebra I. Can be taken concurrently with Algebra II Honors. In general, students will have performed at a "B" or better average and have teacher recommendation from their previous class.

Geometry Honors offers development of the concepts and properties of plane geometry through both deductive and inductive reasoning. Proofs are included and students have opportunities to formulate conjectures based on observations, patterns, and prior learning.

MA 0675 Pre-Calculus

Grades 11, 12 **1.0 credit**

Prerequisite: Successful completion of Algebra I, Algebra II, and Geometry.

Pre-Calculus Academic is offered to college-bound juniors and seniors who wish to continue their mathematical education. This full year intensive course will discuss a variety of advanced mathematical topics ranging from functions through trigonometry to discrete mathematics.

MA 0676 Pre-Calculus Honors

Grades 11, 12 **1.0 credit**

Prerequisite: Successful completion of Algebra I, Algebra II, and Geometry. In general, students will have performed at a "B" or better average and have teacher recommendation from their previous class.

Pre-Calculus Honors is offered to upperclassmen intending on taking AP Calculus for college credit. This full year intensive course will discuss a variety of advanced mathematical topics ranging from functions through calculus.

MA 0691 Calculus Honors

Grade 12

1.0 credit

Prerequisite: The successful completion of Algebra I, Algebra II, Geometry, and Pre-Calculus.

This Course will provide a rigorous course of study of Calculus. It will cover limits, derivatives, integrals, and their applications. Calculus will be a balanced blend of concrete and abstract skills with concepts, application and theory. Calculus instruction will provide for the development of the student's ability to solve problems, particularly of an interdisciplinary nature.

MA 0690 Advanced Placement Calculus Honors

Grade 12

1.0 credit

Prerequisite: Successful completion of Algebra I, Geometry, Algebra II, Pre-Calculus Honors. In general, students will have performed at a "B" or better average and have teacher recommendation from their previous class.

AP Calculus AB develops students' understanding of the concepts of Calculus and provides experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results and problems expressed numerically, geometrically, verbally, and analytically. The connections among these representations are important. Broad concepts and widely applicable methods are emphasized. Technology is used regularly, if not daily, to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. Through the use of the unifying themes of derivatives, integrals, limits, approximations, applications, and modeling, the course becomes a cohesive rather than a collection of unrelated topics. These themes are developed using the family of functions. AP Calculus AB is a college level course. College credit can be obtained by passing the AP exam administered in May.

MA 0681 Probability and Statistics

Grades 11, 12

1.0 credit

Prerequisite: The successful completion of Algebra I and Geometry.

This course will study major statistical concepts, techniques, and procedures for collecting, graphing, analyzing and drawing conclusions with data. Students will specifically study the following topics: one-variable statistics, two-variable statistics with regression analysis, probability, random variables, binomial/geometric distributions, and hypothesis testing.

MA 0680 Advanced Placement Statistics

Grades 11, 12

1.0 credits

Prerequisite: Successful completion of Algebra I, Algebra II and Geometry. In general, students will have performed at a "B" or better average and have teacher recommendation from their previous class.

AP Statistics is an advanced math course that will study major statistical concepts, techniques, and procedures for collecting, graphing, analyzing and drawing conclusions with data as outlined and approved by the College Board. AP Statistics is a college level stats course. College credit may be obtained by passing the AP exam administered in May. All enrolled students must take the AP exam.

MA 0655 Inferential Statistics and Probability

Grades: 9,10,11

.50 credits

Prerequisite: Successful completion of Algebra I.

Inferential Statistics is designed to teach students the value in using a sample set of data to make predictions on a larger population. Students will begin to understand bias, types of data, and will learn how to design and implement a statistical study. Once data is gathered, students will also learn to analyze information using tables, charts, graphs and equations; both by hand and using technology. This semester course will also develop students' conceptual understanding of the fundamental concepts central to probability. Students will see where statistics and probability are prevalent across different careers, in the sports they watch, and in their everyday lives.

MA 0618 PSAT/SAT Prep Course

Grades 10, 11, 12

.50 Credit

PSAT/SAT Prep is designed to help prepare students for the PSAT/SAT test. In addition to reviewing the basic verbal and mathematical skills assessed on the PSAT/SAT test, students will learn test-taking

strategies specific to the exam. PSAT/SAT tests and strategies emphasis will be placed on mathematics. The course material will focus on the following topics: Getting to know the test, Important Algebraic Test-Taking Strategies, Algebra Techniques, Arithmetic, Data and Statistics, Geometry, Advanced Math (which includes Algebra 2 material, coordinate geometry, and trigonometry). Course material will include guided notes and practice, sample questions with explanations, grading rubrics for peer and self-assessment, practice tests with complete multiple-choice assessments, and study resources. Independent practice on Khan Academy will be implemented to allow for customized practice for each student. Upon successful completion, students will possess the tools necessary to complete the math portion of the PSAT/SAT to the best of their ability.

Gateway Community College Math Courses – See Appendix I for full description.

These courses are expected to gain approval at Gateway Community College for Dual Enrollment. After approval, students may enroll in the Dual Enrollment** program and earn 3 college credits for each the course. If students choose to enroll in the Dual Enrollment Program and successfully complete the course, they will receive credit for the following Gateway Community College courses:

- **WHHS 390 Elementary Algebra for Gateway Community College Math 095-Elementary Algebra (3 credits)**
- **WHHS 392 Intermediate Algebra for Gateway Community College Math 137-Intermediate Algebra (3 credits)**

** Students previously enrolled in a Gateway Community College Dual Enrollment course will be given preference. Students planning to enroll or have previously completed an advanced course in a Career and Technology Education area are highly encouraged to enroll.

Science

No.	Course	Grade			NCAA	Credit		
SC 0810	AP Biology		10	11	12	SC 0810	1.00	S
SC 0801	Biology I - Honors		10				1.00	S
SC 0410	Biology		10				1.00	S
SC 0821	Chemistry I - Honors		10	11	12	SC 0821	1.00	S
SC 0824	Chemistry I		10	11	12	SC 0824	1.00	S
SC 0825	AP Chemistry			11	12	SC 0825	1.00	S
SC 0831	Physics Honors	9				SC 0836	1.00	S
SC 0851	Physics			11	12	SC 0851	1.00	S
SC 0845	Meteorology			11	12	SC 0845	.50	S
SC 0862	Astronomy			11	12	SC 0862	.50	S
SC 0866	Bioethics			11	12	SC 0866	.50	S
SC 0869	Forensic Science			11	12	SC 0869	.50	S
SC 0870	Integrated Science	9					1.00	S
SC 0873	Integrated Science - Honors	9				SC 0873	1.00	S
SC 0871	Marine Biology			11	12	SC 0871	1.00	S

SC 0864	Environmental Science			11	12	SC 0864	1.00	S
SC 0883	AP Environmental Science		10	11	12	SC 0883	1.00	S
SC 0875	Human Body Fundamentals			11	12		.50	S
SC 0876	Forensic Investigation - Cohort Only				12		1.00	S

***PLTW Stem Pathways – Engineering courses and Biomedical Science courses available. Refer to Project Lead the Way – STEM section.

The science curriculum is currently under revision to align with the Next Generation Science Standards (NGSS) in preparation for the state assessment, SBAC – Science, to be administered in the spring, 2019.

Science Progression

Grade 9	Grade 10	Grade 11	Grade 12
Integrated Science Integrated Science Honors	Biology Biology Honors AP Biology	AP Biology Physics	AP Biology Physics
Physics Honors	Chemistry I Chemistry Honors	Chemistry Chemistry Honors AP Chemistry	Chemistry Chemistry Honors AP Chemistry
	AP Environmental Science	Environmental Science AP Environmental Science	Environmental Science AP Environmental Science
		Meteorology Astronomy Bioethics Forensic Science Marine Biology Human Body Fundamentals	Meteorology Astronomy Bioethics Forensic Science Marine Biology Human Body Fundamentals Forensic Investigation
Students may take Project Lead the Way, STEM, Biomedical Science and Engineering electives at any grade level.			

SC 0810 Advanced Placement Biology

Grades 10, 11, 12 **1.00 credits**

Prerequisite –Recommendation 9th grade science teacher. Successful completion of the AP Biology summer assignment.

This is a rigorous, college level course that deals with in-depth, intensive study of molecules and cells; genetics and evolution; and organisms and populations. Significant laboratory investigations will be an important part of this course. Enrolled students are required to take the AP Biology exam.

SC 0410 Biology 1

Grade 10 **1.00 credits**

The NGSS aligned science course Biology will focus on the study of life sciences and relationships to environmental sustainability and conservation. Life science core ideas for Biology will include -From Molecules to Organisms: Structure and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. The course instruction will focus on incorporating the 3D NGSS model of Crosscutting Concepts such as cause and effect; Engineering Practices such as developing and using models; and Content Strands such as

structures and processes. Students will work collaboratively and independently to design and carry out lab investigations, develop models, analyze and develop solutions to real world problems.

SC 0801 Biology I – Honors

Grade 10 **1.00 credits**

Prerequisite –Completion of Honors Integrated Science (SC 0873) with a “B” or better, Honors Physics (SC 0836) with a C+ or better, or Integrated Science (SC0452) with an “A”.

The advanced NGSS aligned science course honors Biology will focus on the study of life sciences and relationships to environmental sustainability and conservation. Life science core ideas for Biology will include –From Molecules to Organisms: Structure and Processes, Ecosystems: Interactions, Energy, and Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity. The course instruction will focus on incorporating the 3D NGSS model of Crosscutting Concepts such as cause and effect; Engineering Practices such as developing and using models; and Content Strands such as structures and processes. Students are encouraged to develop proficiency in laboratory techniques, independent time management, writing and organizational skills. Students will also work collaboratively to solve real world problems in Biology.

SC 0864 Environmental Science

Grades 11, 12 **1.00 credits**

This NGSS Environmental Science course will investigate the chemistry of the environment and how it applies to environmental sustainability and conservation. The course will focus on five disciplinary core ideas: The History of Earth and its Soils, Movement of the Earth and Cycling of Matter, The Power of the Sun, Energy Resources, and Environmental Policy and Conservation. These topics will be taught using crosscutting standards such as systems and system models. Labs will be performed using engineering practices such as constructing explanations and designing solutions. In students designing and carrying out their own labs, they will be better prepared to address the environmental problems in today’s society and propose solutions to environmental problems.

SC 0824 – Chemistry I

Grades 10, 11, 12 **1.00 credits**

Prerequisite – Algebra I (MA 0614) with a C average or better and recommendation of previous science teacher. Students are required to have completed two years of high school science. Grade 10 students who have completed Algebra II (MA 6401) are eligible.

The curriculum aligns with the Next Generation Science Standards and will help develop science and engineering practices. This course is designed to investigate the physical world of chemistry with an environmental area of focus. Topics of study will include the effect (example of Cross Cutting Concepts) of molecular structure on properties of matter, patterns and trends of the periodic table, stability and equilibrium of systems including energy flow as well as the impact of human actions on a global scale. Emphasis will be placed on laboratory and math skills with students developing and implementing their own investigations (Engineering Practice). Strong math skills are required to analyze and interpret data collected. Students will be expected to develop models demonstrating their understanding of NGSS Chemistry Disciplinary Core Ideas.

SC 0821 Chemistry I – Honors

Grades 10, 11, 12 **1.00 credits**

Prerequisite-- Biology I Honors (SC 0801) or AP Biology (SC081) with a B average or better, or Biology I (SC 0410) OR Integrated Science (SC 0870) with an A average or better OR Integrated Science Honors (SC 0873) with a B average. Algebra II (MA 0201) with an B average or better.

This course is designed primarily for above average student who are highly motivated and currently pursuing the advanced science sequence. The NGSS aligned curriculum will focus on the study of physical science and relationships to our environment by implementing the 3D model of instruction. Strong math skills and prior knowledge of basic laboratory techniques are required. Topics of study representing content strands will include the effect of molecular structure on properties of matter (cause and effect), patterns and trends of the periodic table, stability and equilibrium of systems including energy flow as well as the impact of human actions on a global scale. Emphasis will be placed on laboratory and math skills with students developing and implementing their own investigations (engineering practices).

Strong math skills are required and students will utilize computer based programs to analyze and interpret data collected. Students will be expected to develop models to show their understanding of topics covered. Students will be required to demonstrate proficiency in laboratory techniques, independent study, writing, and organizational skills.

SC 0825 Advanced Placement Chemistry

Grades 11, 12 **1.00 credits**

Prerequisite – Chemistry I Honors (SC 0821) with a B or better average and Algebra II (MA0634) with a B or better average and permission of the science department chair. Successful completion of the AP Chemistry summer assignment.

This class will offer a national curriculum aimed at preparing students for the Advanced Placement exam in chemistry. Highly motivated students with a firm background in biology and introductory chemistry will be rigorously challenged with an intensive inquiry-based approach to learning. Process learning and laboratory experimentation will be key components of this course. Enrolled students are required to take the AP Chemistry exam.

SC 0883 Advanced Placement Environmental Science

Grades 10, 11, 12 **1.00 credits**

Prerequisite – Biology I Honors (SC 0801 with a B average or better or Laboratory Biology I (SC 0802) with an A average AND Integrated Science Honors (SC 0873) with a B average or better or Integrated Science (SC 0870) with an A average Algebra I (MA 0614) with a C average or better.

This is a rigorous college level course that provides the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Themes include the processes of the following: science, energy conversion underlie all ecological processes; the Earth itself is one interconnected system; humans alter natural systems; environmental problems have a cultural and social context; and human survival depends on developing practices that will achieve sustainable systems. Enrolled students are required to take the AP Environmental Science exam.

SC 0851 Physics

Grades 11, 12 **1.00 credits**

Completion of Algebra I (MA 0614) with a C or better and permission of the present science teacher.

This NGSS aligned Physics course will emphasize the conceptual development of some basic physics topics. Physics is the study of natural phenomenon. This subject is basic to the fundamental understanding of all science. The disciplinary core ideas covered in this course will include Kinematics (motion), Dynamics (causes of motion), light, electricity, and magnetism with emphasis on Dimensional Analysis, unit description and detailed measuring. Laboratory experiments are an integral part of this course and are designed to reinforce each unit of concentration. Physics Core Crosscutting Concepts such as Systems and System Models will be applied to an understanding of Matter and Energy. Applied Physics and Engineering Practices such as the development and construction of models by implementing mathematics and computational thinking will be utilized throughout this course and applied to real world problems.

*It is for students who do not plan to pursue collegiate study of science, engineering, medicine, or other science-related fields or who wish to employ only Algebra I skills during the study of physics.

*It is strongly recommended that students complete Geometry or Algebra 1 courses.

SC 0831 Physics Honors

Grades 9, 11, 12 **1.00 credits**

Prerequisite—Completion of Algebra I (MA 0614) with a B or better and permission of the present science teacher. This course is only for students who plan to pursue collegiate study of science, engineering, medicine, or other science related fields.

The NGSS aligned course investigates physical laws and theories, relationships of physical phenomena, and the interrelationships of physics to other fields of human ingenuity. The course will emphasize the mathematical and conceptual development of physics topics including structure and properties of matter, Newton's Law of Gravitation, forces and motion, physics of astronomy, conservation of energy,

thermodynamics, heat transfer, and properties of waves. The course instruction will focus on incorporating the 3D NGSS model of Crosscutting Concepts such as systems and system models as well as energy and matter; Engineering Practices such as Using Mathematics and Computational Thinking as well as Constructing Explanations and Designing Solutions; and Content Strands such as inquiry practices and methods. Students will perform projects and activities that reinforce NGSS concepts. Students will use the engineering design process while utilizing engineering practices to solve real world challenges. Extensive algebra and the basics of trigonometry will be employed throughout the course. A strong understanding of algebra is beneficial to the successful completion of this course

SC 0470 Integrated Science

Grade 9 **1.00 credits**

This course will investigate the physical side of science and the relationship of this to the earth's structures as a whole. Focus will be on the core ideas of forces and motion as well as Earth's history and energy flows in the natural world. Cross cutting concepts include energy and matter and stability and change. The class will include implementation of NGSS engineering practices such as planning and carrying out investigation with laboratory experiments, develop models, and construct solutions.

SC 0873 Integrated Science - Honors

Grade 9 **1.00 credits**

Concurrent enrollment of Algebra I (MA 0614).

This course is designed primarily for above average tenth grade students who are highly motivated and have a desire to pursue the advanced science sequence. This course will instigate the physical side of science and the relationship of this to the earth's structures as a whole. Focus will be on the core ideas of forces and motion as well as Earth's history and energy flows in the natural world. Cross cutting concepts include energy and matter and stability and change. The class will include implementation of NGSS engineering practices such as planning and carrying out investigation with laboratory experiments, develop models, and construct solutions. Students are encouraged to develop proficiency in laboratory techniques, independent study, writing, and organizational skills. Integrated science labs will be performed, as well as projects and presentations. Strong math skills are necessary.

SC 0845 Meteorology

Grades 11, 12 **½ year, .5 credits**

This course is designed to introduce the interested student to the wonders of weather and climate. The NGSS aligned curriculum will focus on the study of physical science and relationships to our environment by implementing the 3D model of instruction. Topics representing the identified content strands will include energy and moisture in the atmosphere, air pressure and global/local wind patterns as well as climate change and human impact on and effects of climate. Next Generation Science and engineering practices such as modeling, investigation of patterns, analysis of cause and effect and comparisons of stability and change will be evident in the daily instruction. Cross cutting concepts such as cause and effect, patterns and systems/system models will be explored regularly. Special consideration will be given to implementation of lab activities designed to investigate natural phenomenon.

SC 0862 Astronomy

Grades 11, 12 **½ year, .5 credits**

This NGSS aligned science course Astronomy will provide students with a deeper understanding of cosmological phenomena and Earth's place in the universe. The course will cover five central topics: Creation and Evolution of the Universe, Space Technology, Life cycle of a star, the Sun's evolution and impact on Earth and searching for life outside of Earth. The course instruction will focus on incorporating the 3D NGSS model of Crosscutting concepts such as systems and system modeling and energy and matter; Engineering Practices such as developing and using a model and engaging in argument with evidence. Students will discover evidence to support theories and generate new hypothesis to explain the universe formation and future. Students will conduct research and commutate findings on the latest Space Missions, technology and data collected as they related to real-world problems. Students will collaborate creating a possible investigation for searching for life in the universe and examine the limitations of their mission design.

SC 0866 Bioethics**Grades 11, 12** **½ year, .5 credits**

The NGSS aligned science course Bioethics will focus on political, moral, and social ethical issues that deal with Biology. Science core ideas for Bioethics will include Growth and Development of Organisms, Genetic Disorders, Structure and Function, and Organization of Interacting Systems. The course instruction will focus on incorporating the 3D NGSS model of Crosscutting Concepts such as cause and effect; Engineering Practices such as Constructing explanations and designing solutions; and Content Strands such as evaluating solutions to real world problems. Students will work collaboratively and independently to develop models via debates, case studies, essay writing and oral presentations in order to analyze and develop solutions to real world problems, such as abortion, designer babies, surrogacy, reproductive technologies, cloning, organ shortage, regenerative medicine, and medical ethics.

SC 0869 Forensic Science**Grades 11, 12** **½ year, .5 credits**

This course follows the Next Generation Science Standards and explores the science related to forensics, crime scene analysis, forensic careers, and eye-witness testimony. Students will use science and engineering practices such as engaging in argument from evidence, planning and carrying out investigations, and analyzing and interpreting data in exploring such concepts as blood spatter, DNA blood typing, hair and fiber analysis, handwriting analysis, and fingerprint analysis. Students will research real world problems including current and past forensic cases, and tie them into the NGSS cross cutting concepts such as cause and effect and patterns.

SC 0871 Marine Biology**Grades 11, 12** **1.00 credit**

This course investigates the physical and biological experiences in the observation, measurement, and management of the resources of the oceans of the world. Coursework builds from single celled marine organisms to focus on larger marine animals and their form vs. function. Life science core ideas and the cross cutting concept of structure and function will be the focus of the course. The content strand of structure and processes will be covered in depth. Engineering practices such as obtaining, evaluating, and communicating information will be developed throughout the course of study so that students can construct solutions to real world problems facing the marine environment. Required dissections include: clam, squid, perch, and shark.

SC 0875 Human Body Fundamentals**Grades 11, 12** **½ year, .5 credit**

This course is project based and focuses on the human body systems and their relationships to health, fitness, and disease. It is based on NGSS best practices and will give students an understanding of how certain diseases, such as Crohn's Disease, cancers, diabetes, and others affect their body and overall health and fitness.

This course is not part of PLTW.

SC 0876 Forensic Investigation**Grade 12** **1.00 credit**

This class will focus on using science to solve a mystery through scientific means such as: DNA, blood spatter patterns, fingerprints, insect activity and temperature analysis.

Social Studies

No.	Course	Grade				NCAA	Credit	
SS 0940 SS 0941	Global Studies	9				SS 0940 SS 0941	1.00	H
EN 0025	Comparative History and Literature Honors	9					1.00	H
SS 0942* SS 0943	United States History		10			SS 0942 SS 0943	1.00	H
SS 0931*	United States History - Honors		10			SS 0931	1.00	H
SS 0953** SS 0954**	Issues In Government			11	12	SS 0944 SS 0945	.50	H
SS 0914	Sociology		10	11	12	SS 0914	1.00	H
SS 0917	Anthropology - Honors			11	12	SS 0917	1.00	H
SS 0949	Women's Studies			11	12		1.00	H
SS 0922	Psychology of the Mind			11	12	SS 0922	.50	H
SS 0946	Social Psychology			11	12		.50	H
SS 0937	AP Psychology			11	12	SS 0937	1.00	H
SS 0924	Civil/Criminal Law				12	SS 0924	1.00	H
SS 0927**	AP U.S. Government & Politics			11	12	SS 0927	1.00	H
SS 0936	AP Human Geography			11	12	SS 0936	1.00	H
SS 400	Contemporary Issues (PACE)	9				SS 400	1.00	H
SS 0938*	AP U.S. History		10	11	12	SS 0938	1.00	H
SS 0934	World Problems and Civic Action			11	12	SS 0934	.50	H
SS 0948	A Nation Divided: The U.S. Civil War	9	10	11	12		.50	H
SS 0950	Movies That Made America	9	10	11	12		.50	H
SS 0918	Crime and Punishment			11	12		1.00	H
SS 0952	Application of World History: Star Wars and may the "course be with you"		10	11	12		1.00	H
SS 0933	Sports and Culture in America		10	11	12		1.00	H

Social Studies Progression

9th Grade	10th Grade	11th Grade	12th Grade
Global Studies Comparative History and Literature Honors Movies That Made America A Nation Divided: The US Civil War	U.S. History* U.S. History Honors* AP U.S. History * Movies That Made America A Nation Divided: The US Civil War Sociology Sports and Culture in America	Issues in Government** Sociology Women’s Studies Psychology of the Mind Social Psychology Civil/Criminal Law Anthropology Honors AP U.S. Government & Politics ** AP U.S. History* AP Human Geography AP Psychology World Problems and Civic Action Movies That Made America A Nation Divided: The US Civil War Crime & Punishment Sports and Culture in America	Issues in Government** Sociology Women’s Studies Psychology of the Mind Social Psychology Civil/Criminal Law Anthropology Honors AP U.S. Government & Politics** AP U.S. History* AP Human Geography AP Psychology World Problems and Civic Action Movies That Made America A Nation Divided: The US Civil War Crime & Punishment Sports and Culture in America

**** These courses meet the State of Connecticut .5 credit requirement in Civics.**

*** This course meets the State of Connecticut requirement for U.S History**

Global Studies

Grade 9

SS 0940 – Level 1

1.0 credit

SS 0941 – Level 2

This course explores world history in the 20th and 21st centuries, with units on Imperialism, World War I, Totalitarian Governments, World War II, Genocide, and Modern Global Issues. Students learn to make connections, and see common themes through different time periods in history.

EN 0025 Comparative History and Literature Honors

Grade 9

2.0 credit

Prerequisites – Recommendation of grade 8 English teacher; social studies teacher.

This course uses a cooperative, interdisciplinary model that will encourage cultural and experiential reference points, and worldview in the process of learning. Students will explore a variety of peoples, events, and movements in world history with a focus on fiction and nonfiction writing as a means to investigate differing perspectives and personal experiences. Students are required to write several papers, complete independent readings and research, and utilize key terms and vocabulary throughout the course. This course meets both the English and Social Studies requirements.

United States History

Grade 10

SS 0942 – Level 1

1.0 credit

SS 0943 – Level 2

Note: This course is required of all sophomores not taking United States History – Honors or AP U.S. History.

This course explores United States History from the reconstruction to the present day. Units of study include: Reconstruction and race relations in the post-Civil War era; Industrialization and Imperialism; causes and outcomes of World War I; the Roaring Twenties and the Great Depression; causes and outcomes of World War II; the post-war years; the Cold War; the Civil Rights Movement; the turbulent 1960s, the 1970 & 1980s; the War on Terrorism; and life in America today.

Successful students will develop a thesis and write an MLA style research essay and persuasive essays on controversial topics; make oral presentations; analyze primary and secondary documents; and incorporate technology.

SS 0931 United States History Honors

Grade 10 **1.0 credit**

Prerequisites – Because this course is both reading and writing intensive, students must receive at least an A- average in ninth grade Global Studies or a B in Comparative History and Literature Honors, and have the permission of their ninth grade Social Studies teacher. Freshman who have taken Comparative History and Literature Honors will be given preference.

This reading and writing intensive course explores United States History from reconstruction to the present day. Reconstruction and race relations in the post-Civil War era; Industrialization and Imperialism; causes and outcomes of World War I; the Roaring Twenties and the Great Depression; causes and outcomes of World War II; the post-war years; the Cold War; the Civil Rights Movement; the turbulent 1960s, the 1970 & 1980s; the War on Terrorism; and life in America today. Successful students will develop a thesis and write an MLA style research essay and persuasive essays on controversial topics; make oral presentations; analyze primary and secondary documents; and incorporate technology.

SS 0914 Sociology

Grades 10,11,12 **1.0 credit**

Sociology is the study of human group interactions. Units include the American value system, personality development, deviance, adulthood, and adolescence. Students will participate in the Teen Outreach Program (TOP). The goal of TOP is to develop healthy behaviors, life skills, and a sense of purpose. Students will also get to explore community service opportunities.

Issues in Government

Grades 11, 12

SS 0953 – Level 1

½ year, .50 credit

SS 0954 – Level 2

Note: This course fulfills the state civics requirement.

In this course, students will examine the role and structure of different systems of government and the many ways that government is involved in our daily lives. Students will examine political, economic, and social issues in the political system. Students will use a variety of sources in the classroom, ranging from primary and secondary sources, textbooks, national news magazines, and databases. Units of study include: The U.S. Constitution, the Structure of American Government, Discrimination in America, Life and Death Issues, and other contemporary issues in America. Traditional and alternative forms of assessment will be used including debates, discussions, MLA research assignments and various hands-on projects.

SS 0917 Anthropology Honors

Grades 11, 12 **1.0 credit**

Prerequisites – Because this course is both reading and writing intensive, students must receive at least an A- average in their previous Social Studies course (or a B average in their previous Honors Social Studies course).

Anthropology studies the ways and means of humans. This course examines some of the various lifestyles crafted by humans in different places and times. This course is both reading and writing intensive. This course introduces students to physical anthropology and cultural anthropology, with students reading actual case studies written by anthropologists in the field. These case studies familiarize students with cultural traditions and social institutions of numerous peoples from around the world.

SS 0949 Women's Studies

Grades 11, 12 **1.0 credit**

This comprehensive, interdisciplinary course for juniors and seniors examines the position of women and the role of gender in the United States. A number of issues are covered including the major historical and modern events in American women's experiences. Topics of inquiry include the roles of women in the American family, popular culture and media, violence against women, discrimination, sports and workplace issues. We also examine the experiences of women across the world and their portrayal in

literature. This student centered inquiry course allows students to explore a range of popular fiction and nonfiction written by and about women. Students will choose interest based projects to learn about issues of personal interest. Short projects, persuasive essays, group research, field trips and debates are important aspects of this course. Students may elect to take this course for honors credit. Those who do will complete additional critical analyses and writing assignments.

SS 0922 Psychology of the Mind

Grades 11, 12 $\frac{1}{2}$ year, .5 credits

Psychology is an exploration of human behavior. Students will examine the history of psychology, learning applications and principles, memory and thought, sensation and perception, motivation and emotion, altered states of consciousness and childhood development.

SS 0946 Social Psychology

Grades 11, 12 $\frac{1}{2}$ year, .5 credit

Psychology is an exploration of human behavior. Students will examine personality theories, psychological testing, stress and health, adjustment in society, abnormal behavior, therapy and change, human interaction, attitudes and social influence along with a brief review of the history of psychology, learning principles and altered states of consciousness.

SS 0937 Advanced Placement Psychology

Grades 11, 12 1.0 credit

Prerequisite – Because this course is both reading and writing intensive, students must have successfully completed U.S. History with an A- average (or a B average in previous Honors Social Studies class).

The Advanced Placement Program offers a course and exam in psychology to qualified students who wish to complete studies in secondary school equivalent to an introductory college course in psychology. The course is designed to introduce students to a systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major sub fields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Students who take this course are required to take the national AP exam in the spring.

SS 0924 Civil/Criminal Law

Grade 12 1.0 credit

Prerequisite – successful completion of the civics requirement.

This course examines criminal and civil law in the United States. This course analyzes everyday consumer law problems, some landmark Supreme Court cases, and the legal process itself. A major portion of the course involves the preparation and the actual participation of a mock trial competition. Local practicing attorneys are involved in the course presentation. A major part of the student's grade will be role playing in this mock trial.

SS0927 Advanced Placement U.S. Government & Politics

Grades 11, 12 1.0 credit

Prerequisites – Because this course is both reading and writing intensive, students must receive at least an A- average in tenth grade U.S. History or a B in U.S. History Honors or AP U.S History, and have the permission of their tenth grade Social Studies teacher. Sophomores who have taken U.S. History – Honors or AP U.S. History will be given preference.

The Advanced Placement U.S. Government & Politics course follows the standards of the Advanced Placement Program. It is a reading and writing intensive course, taught at the college freshman level. Students must be willing to write 12 research essays prior to the national AP exam in May. Students partake in an in-depth analysis of the U.S. Constitution, branches of the national government, political parties, special interest groups, and the media. Students must volunteer 10 hours in an election campaign, watch political television, and read about current events. Students who take this course are required to take the national AP exam in the spring.

This course fulfills the state civics requirements.

SS 0936 Advanced Placement Human Geography

Grades 11, 12

1.0 credit

Prerequisite – Because this course is both reading and writing intensive, students must have successfully completed U.S. History with an A- average (or a B average in their previous Honors Social Studies class). Advanced Placement Human Geography is a college-level course offered to qualified and motivated juniors and seniors. Adhering to the essential outlines offered by the College Board, the course is structured and delivered like an undergraduate university class. The purpose of this course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the earth's surface. Geography topics will be covered in great depth and will include perspectives of human geography, population, cultural patterns and processes, political organization of space, urban and rural land use, industrialization and economic development. The class is an intensive and in-depth examination of these issues requiring higher order thinking comparable to a college level course, and is an excellent course for students considering studying the social sciences at the university level. Students who take this course are required to take the national AP exam in the spring.

SS 0952 Star Wars and History - May the "Course" Be with You; Applications of World History

Grades: 10, 11, 12

1.00 Credit (Full Year)

Prerequisite: Completion of Global Studies or Comparative History and Literature

This course will analyze the real life historical events that influenced the creation of the Star Wars universe. Star Wars and History will examine major historical turning points and the individuals that had an impact on the development of the Star Wars universe. This course will examine (but not be limited to) the following events and their impact on Star Wars: Ancient Egypt and the Roman Empire, the rise of Nazi Germany compared to the rise of the Empire, Hitler, how women in the French Resistance/Mexican Revolution influenced the development of Princess Leia, historical parallels between the Jedi Code and Bushido, Jedi Culture and the Templar Knights, comparing Star Wars and the Wild West, Jabba the Hutt and organized crime, and the Rebel Alliance's fight against the Empire compared to the American Revolution.

SS 0938 Advanced Placement U.S. History

Grades 10, 11, 12

1.0 credit

Prerequisite – Because this course is both reading and writing intensive, students must have successfully completed U.S. History with an A- average (or a B average in their previous Honors Social Studies class). This course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places. Students who take this course are required to take the national AP exam in the spring.

SS 0934 World Problems and Civic Action

Grade 11

½ year, .5 credit

This **junior year course** is designed to support students in completing the new State Mastery Based Diploma Assessment. This assessment is a state requirement for all students graduating in 2023 and beyond. The goal of this course and project is to engage students in exploring critical local, national and global issues, developing inquiry based research strategies and becoming engaged in the civic process. Students will be required to plan for and take action on an issue of their choice. All students will be evaluated using a schoolwide Achieve BLUE rubric.

Become an informed thinker and problem solver

Lead, learn, collaborate and communicate

Understand your civic duty

Explore your passion

SS 0948 A Nation Divided: The U.S. Civil War

Grade 9,10,11,12 **½ year, .5 credit**

This half-year elective course will examine the U.S. Civil War from the slave trade through Reconstruction. Students will analyze the war's causes, battles, leaders, effects upon society, and the nation's recovery. This course will follow the national curriculum created by the "Civil War Preservation Trust" found at www.battlefields.org.SS

SS 0950 Movies that Made America

Grade 9,10,11,12 **½ year .5 credit**

This half-year elective course will examine U.S. history from the nation's struggle for independence to the present day using Hollywood films to convey the historical events, politics, culture, lifestyles, and values of different eras. Prior to watching each film, students will learn background information about each time period. While watching each film, students will complete detailed study guides. At the conclusion of each film, in order to determine each film's historical accuracy, students will compare and contrast events portrayed in the film to actual historical events.

SS0918 Crime & Punishment (Cohort Only)

Grade 11,12 **1.00 Credit**

This class will focus on the judicial process, including courtroom proceedings, trials and criminal law. This class is a component of the criminal justice cohort, which will utilize cross curricular ideas to explore the field of criminal justice. This program will run in conjunction with partnerships with the West Haven Police Department and the University of New Haven.

SS0933 Sports and Culture in America

Grade 10,11,12 **1.00 Credit**

This course will examine the various ways that sport impacts American culture. Sports are truly woven into the fabric of American society in many meaningful ways. This course will allow students the opportunity to examine the role of sport in America, both past and present. Students will consistently develop vocabulary, reading, writing and technology skills by creating Google Slides Presentations, videos and essays related to course units/topics.

Special Education

No.	Course	Grade				Credit	
		9	10	11	12		
SE 0388	Lifeskills I	9	10	11	12	1.00	S
SE 0389	Lifeskills II				12, 12+	1.00	S
SE 0398	Internship I			11	12	1.00	S
SE 0399	Internship II			11	12, 12+	3.00	S
SE 0477	Biology SC		10			1.00	S
SE 0872	Integrated Science SC	9				1.00	S
SE 0900	Global Studies SC	9				1.00	H
SE 0905	US History SC		10			1.00	H
SE 0396	Issues in Government			11		1.00	H
SE 0628	Intermediate Algebra I SC	9				1.00	S
SE 0872	Intermediate Algebra II SC		10			1.00	S
SE 0629	Intermediate Geometry I SC			11		1.00	S

Enrollment in special education classes occurs through the Planning and Placement Team (PPT). Self-contained classes in the content areas of Language Arts and Math are offered each year, meet daily and are 1.0 credit classes. Life Skills courses are available as recommended through the PPT and offered at sites in area schools and the community. Instruction is dependent on students' transition goals and credit is dependent on the number of periods in which the student is enrolled. An off-site supervised apartment program is offered for students who require functional and behavioral skills integrated into their school experience.

Special Education support (Inclusion) is also provided in regular education classes through a co-teaching model in which both a special education and content area teacher work together in the regular education classroom. Supported classes are offered contingent on student needs and PPT decision and include classes in all four of the content areas, i.e. English, Mathematics, Science, and Social Studies

SE 0388 Lifeskills I

Grades 9, 10, 11, 12

This course will provide the students access to the skills needed to be successfully assimilated into society. Students will work on the skills needed to become independent and a contributing member of society. Included will be such topics as interpersonal skills, solving problems, managing money, achieving success in the workplace, cooking and cleaning. This course fulfills the core values. Students participate in the Unique Learning System curriculum.

SE 0389 Lifeskills II

Grade 12, 12+

Life Skills II includes the same skill set as Life Skills I with the addition of weekly trips to our simulated apartment in order to experience a practical application of skills gained in Life Skills I. Students will also participate in weekly community outings.

SE 0398 Internship I

Grade 11, 12 1 period, full year

This course is designed for students to develop employability skills for securing employment. This course fulfills the core values. Students will complete job interest inventories, simulated job interviews, and job applications.

SE 0399 Internship II

Grade 11, 12, 12+ 3 periods, full year, 3 credit course

Prerequisite – Student must pass Internship I (SE 0398) and receive approval of Instructor.

This course enables the students to implement pre-vocational skills on job sites throughout the community. Students will work to improve their employability skills at an actual work-site. They will learn the soft-skills of employment including: reporting to a supervisor completing a specific task and following directions and a schedule.

SE 0477 Biology SC

Grade 10 - Small self-contained classes for students with special needs.

Biology, the science of living things, makes the student aware of the relationships of living things to each other and their environment. This course will focus on the basic concepts of biology, including the study of the plant and animal kingdoms, the human body and its functions, cell structure, chemistry, disease, genetics, evolutions, and conservation of natural resources. Laboratory skills and independent projects are stressed, and labs will be performed. This course fulfills the 9th grade Science requirement

SE 0872 Integrated Science SC

Grade 9 – Small self-contained classes for students with special needs.

This course will focus on the study of both the physical and chemical side of science and the relationship of these areas to the real world and the earth's structure as a whole. Students will learn about atomic structure, energy and basic chemistry concepts. Projects and lab work will be an important part of the class and be used as a major part of assessment of material.

SE 0905 US History SC

Grade 10 – Small self-contained classes for students with special needs.

Self-contained US History includes the same units of study covered in other levels of US History but in a modified format. Study begins with the Civil War and follows through to modern day. The focus includes reading, writing, and speaking skills as well as attention to basic geography and social issues. Students will be assessed on their understanding using a variety of materials geared towards their individual needs per their IEP (Individualized Educational Plan).

SE 0396 Issues in Government

Grade 11- Small self-contained classes for students with special needs

This course examines the role and structure of different systems of government and the many ways that government is involved in our daily lives. Students will examine political, economic, and social issues in the political system. Students will use a variety of sources in the classroom, ranging from primary and secondary sources, textbooks, national news magazines, and databases. Units of study include: The U.S. Constitution, the Structure of American Government, Discrimination in America, Life and Death Issues, and other contemporary issues in America. Traditional and alternative forms of assessment will be used including debates, discussions, MLA research assignments and various hands-on projects

SE 0900 Global Studies SC

Grade 9 – Small self-contained classes for students with special needs.

This course explores world history in the 20th and 21st centuries, with units on Imperialism, World War I, Totalitarian Governments, World War II, genocide, and modern global issues. Students will learn to make connections, and see common themes through different time periods in history.

This course fulfills the 9th grade Social Studies requirement.

SE 0628 Intermediate Algebra I SC

Grade 9 - Small, self-contained classes for students with special needs.

This course will enable students to learn the basic concepts of Algebra. The curriculum is based on the Common Core State Standards and will review not only basic math concepts necessary for Algebra, but will also allow students to further explore basic equations, inequalities, functions, patterns, and other functions as they are related to previously learned arithmetic concepts. Techniques for problem-solving are explored so that algebraic skills may be used to solve more difficult problems. Students will be expected to clearly demonstrate their understanding of algebraic concepts.

SE 0872 Intermediate Algebra II SC

Grade 10 – Small self-contained classes for students with special needs.

This course will continue the concepts taught in the self-contained Intermediate Algebra I class. The class will review not only those basic concepts, but introduce basic concepts of functions, expressions, and understand those concepts and how they relate to the real world. Techniques of problem-solving will be explored, and based on IEP (Individualized Educational Plan) the students will complete performance tasks that demonstrate their understanding of curriculum.

SE 0629 Intermediate Geometry SC

Grade 11 - Small, self-contained classes for students with special needs.

This course will enable students to understand the basic concepts of Geometry. Areas of focus will include understanding shapes, measurement, polygons, and circles. The concepts of plane geometry will be introduced and discussed as they relate to everyday life. Students will be expected to demonstrate their understanding of geometric concepts through the completion of performance task .

No.	Course	Grade				Credit	
		9	10	11	12		
TA 0023	Acting	9	10	11	12	1.00	H
TA 0029	Children's Theater		10	11	12	1.00	H

TA 0023 Acting

Grades 9, 10, 11, 12 Full year/1.00 Credit

Students may participate in Acting throughout all four years of high school (with instructor permission). This course is designed to help students develop confidence in public speaking through prepared theatrical monologues and scenes. It will also teach the principles of acting techniques: exercises, improvisations, stage terms, blocking, poise, diction, and projection. Individual scenes and monologues are rehearsed and produced in class. A great deal of memorization is required in order to succeed in this class.

TA 0029 Children's Theater

Grades 10, 11, 12 Full year/1.00 Credit

Prerequisite – Permission of teacher

This course is designed to introduce students to the creative elements necessary to produce a play for children. Students will develop, choreograph, rehearse, and perform theater pieces for early elementary school-aged children. Students will perform before the public on Saturday mornings several times each year. This is a very demanding performance-based course. It is designed for students who show a true talent and dedication to the theatre and have the ability to work within an ensemble atmosphere.

Visual Arts

No.	Course	Grade				Credit	
		9	10	11	12		
AR 0103	Foundations of Art	9	10	11	12	.50	H
AR 0110	Ceramics	9	10	11	12	.50	H
AR 0111	Advanced Ceramics		10	11	12	.50	H
AR 0115	Crafts	9	10	11	12	.50	H
AR 0116	Advanced Crafts		10	11	12	.50	H
AR 0120	Drawing	9	10	11	12	.50	H
AR 0208	Advanced Drawing		10	11	12	.50	H
AR 0125	Painting	9	10	11	12	.50	H
AR 0209	Advanced Painting		10	11	12	.50	H
AR 0130	Sculpture	9	10	11	12	.50	H
AR 0131	Advanced Sculpture		10	11	12	.50	H
AR 0141	Studio Art Honors			11	12	1.00	H
AR 0144	AP Studio Art			11	12	.50	H
AR 0140	Art for Seniors				12	.50	H

AR 0103 Foundations of Art

Grades 9, 10, 11, 12 **½ year, .5 credits**

This is an introductory course designed for students with an interest in art. Students will be introduced to a variety of art media through drawing, painting and design. Students will be introduced to different artists, techniques and periods of Art History.

Students must successfully complete this course with a C or better in order to take any other art classes.

AR 0110 Ceramics

Grades 9, 10, 11, 12 **½ year, .5 credits**

Prerequisite – Completion of Foundations of Art with a C or better or instructor permission

Ceramics is an introductory class designed to help students explore different techniques in hand building, which will include pinch, slab, coil, and molding. Students will be working with clay for this class. This class is a prerequisite for Advanced Ceramics.

AR 0111 Advanced Ceramics

Grades 10, 11, 12 **½ year, .5 credits**

Prerequisite – Successful completion of Ceramics (AR0110) with a C or better.

In Advanced Ceramics, students will be working at a more challenging level based upon skills learned in the introductory course. Students will explore, at a higher level, a variety of techniques and subject matter. Creative problem solving will be stressed.

AR 0115 Crafts

Grades 9, 10, 11, 12 **½ year, .5 credits**

Prerequisite – Completion of Foundations of Art with a C or better or instructor permission

Crafts is a beginner level class designed to expose students to a variety of media and processes. Traditional crafts such as basket weaving, doll making, and paper mache combining a variety of cultures around the world to be explored. This class is a prerequisite for Advanced Crafts.

AR 0116 Advanced Crafts

Grades 10, 11, 12 **½ year, .5 credits**

Prerequisite – Successful completion of Crafts (AR0115) with a C or better.

In Advanced Crafts, students will be working at a more challenging level based upon skills learned in the introductory course. Students will explore, at a higher level, a variety of techniques and subject matter. Creative problem solving will be stressed.

AR 0120 Drawing

Grades 9, 10, 11, 12 **½ year, .5 credits**

Prerequisite – Completion of Foundations of Art with a C or better.

Drawing is a beginner level drawing class. Students will be introduced to the basics of drawing through a variety of media including charcoal, colored pencil, graphite, ink and pastels. Only drawing will be covered in this class. Sketchbook homework will be assigned weekly. This class is a prerequisite for taking Advanced Drawing.

AR 0208 Advanced Drawing

Grades 10, 11, 12 **½ year, .5 credits**

Prerequisite – Successful completion of Drawing (AR0120) with a C or better.

In Advanced Drawing, students will be working at a more challenging level based upon skills learned in the Advanced Drawing (AR 0120). Students will explore, at a higher level, a variety of media and subject matter. Creative problem solving will be stressed. Sketchbook homework will be assigned weekly.

AR 0125 Painting

Grades 9, 10, 11, 12 **½ year, .5 credits**

Prerequisite – Completion of Foundations of Art with a C or better.

Painting is a beginner level class designed to introduce students to the basics of painting using a variety of media and techniques. Only painting will be covered in this class. This class is a prerequisite for taking Advance Painting.

AR 0209 Advanced Painting

Grades 10, 11, 12 **½ year, .5 credits**

Prerequisite – Successful completion of Advanced Painting I (AR 0125) with a C or better.

In Advanced Painting, students will be working at a more challenging level based upon skills learned in the introductory course. Students will explore, at a higher level, a variety of media and subject matter. Creative problem solving will be stressed.

AR 0230 Sculpture

Grades 9, 10, 11, 12 **½ year, .5 credits**

Prerequisite – Completion of Foundations of Art with a C or better.

Sculpture is a course designed to introduce students to three dimensional artwork. Students will use a variety of media and techniques to build only 3-D works of art. Two dimensional works of art such as painting and drawing will not be covered. This class is a prerequisite for Advanced Sculpture.

AR 0131 Advanced Sculpture

Grades 10, 11, 12 **½ year, .5 credits**

Prerequisite – Successful completion of Sculpture (AR 0230) with a C or better.

In Advanced Sculpture, students will be working at a more challenging level based upon skills learned in the introductory course. Students will explore, at a higher level, a variety of media and techniques to build 3-D works of art.

AR 0141 Studio Art Honors

Grade 11, 12 **Full year/ 1.00 credit**

Prerequisite – Requires permission of the art teacher.

This class provides an advanced level of study for those students with a high level of interest. Students will complete a portfolio suitable for college application and interviews. Creative problem solving will be stressed. Students are required to keep a journal and have regular critiques and extensive homework assignments.

It is highly recommended that students take this class prior to taking AP Studio Art.

AR 0144 AP Studio Art

Grades 11, 12 **Full year/ 1.00 credit**

Prerequisite – Requires permission of art teacher

It is highly recommended that students take one year of Studio Art Honors before enrolling in this class.

AR 0140 Art for Seniors

Grade 12 **½ year, .5 credits**

This is an art class designed specifically for seniors with no previous art background who wish to have an art experience.

Music

No.	Course	Grade				Credit	
General							
MU 0718	Beginner Piano	9	10	11	12	.50	H
MU 0721	Int/Adv. Piano	9	10	11	12	.50	H
MU 0722	Introduction to Reading Music I	9	10	11	12	.50	H
MU 0723	Introduction to Reading Music II	9	10	11	12	.50	H
Instrumental							
MU 0705	Marching/Concert Band	9	10	11	12	1.00	H

MU 0707	Color Guard (Flag & Rifle)	9	10	11	12	1.00	H
MU 0724	Introduction to Jazz	9	10	11	12	.5/1.00	H
Choral Music							
MU 0711	Chorus	9	10	11	12	1.00	H
MU0706	Blue Note		10	11	12	1.00	H
MU 0710	Bel Canto		10	11	12	1.00	H

General Music Courses

MU 0718 Beginner Piano

Grades 9, 10, 11, 12 ½ year, .5 credits

This is an introductory course for students who want to learn how to play the keyboard. Students will learn how to interpret basic notation, identify musical terms and symbols and play both alone and together in a group. *Students will be required to provide their own earbuds/headphones for class.

MU0721 Intermediate/Advanced Piano

Grades 9, 10, 11, 12 ½ year, .5 credits

Prerequisite: Successful completion of Class Piano with a "C" or better or permission of instructor
This course will be an extension of Class Piano I and will build upon the skills learned in that class. Students will continue to play both individually and as a group on more challenging and complex pieces of music. *Students will be required to provide their own earbuds/headphones for class.

MU0722 Introduction to Reading Music I

Grades 9,10,11,12 ½ year, .5 credits

This course will provide students with an introduction to the understanding of music theory. Emphasis will be placed on reading notation and rhythm, constructing major/minor scales, identifying intervals and triads, and understanding musical concepts and terminology. *Students should have experience reading music on the treble clef staff. This course is highly recommended for all Band, Chorus, and Musical Theater students*

MU0723 Introduction to Reading Music II

Grades 9,10,11,12 ½ year, .5 credits

Prerequisite – Successful completion of Introduction to Reading Music I (MUzxzxxz) with a “C” or better or signature of instructor

This course will be an extension of Music Theory I and will build upon the skills learned in that class. Emphasis will be placed on reading complex meter, constructing minor and modal scales, and identifying 7th chords. *Students should have experience reading music on both the treble and bass clef staves. This course is highly recommended for all Band, Chorus, and Musical Theater students.*

Instrumental Music Courses

MU 0705 Marching/Concert Band (Musicians)

Grades 9, 10, 11, 12

Prerequisite – No audition is needed. Attendance at summer rehearsals (end of August), at all after school and evening rehearsals, and at all performances is mandatory. An average of “C” or higher is required to continue each year.

This course is designed for those students who are interested in further developing their proficiency in concert band, marching band, and ensemble techniques. Emphasis will be placed on developing marching and musical techniques, as well as self-discipline, teamwork, and student leadership.

Be advised: All musicians must be prepared to purchase items necessary for marching and concert band seasons including uniforms. All students must be prepared to rent or purchase an instrument if they have

not already done so. (Exceptions: Bass Clarinet, Tenor Saxophone, Baritone Saxophone, Baritone Horn, Tuba, Percussion). Percussionists must be able to read music. No new members will be placed on Snare Drum for Marching Season.

MU 0707 Color Guard (Flag and Rifle)

Grades 9, 10, 11, 12

Prerequisite – No audition is needed. Attendance at summer rehearsals (August), at all after school and evening rehearsals, and at all performances is mandatory. An average of “C” or higher is required to continue each year.

Color Guard is an organization affiliated with the W.H.H.S. Band. Members are expected to be disciplined and to become proficient in handling their equipment (Flag and/or Rifle).

Be advised: All Color Guard Members must be prepared to purchase items necessary for marching and concert band seasons including uniforms. No new members will be placed on rifle for marching season.

MU 0724 Introduction to Jazz

Grades 9,10,11,12 .5/1.0 credits

This course will cover the history of Jaz Music, various artists who have helped to shape this history, and the basis for chord reading and improvisation.

Please note: This is a non permanence class, no instruments will be needed.

Choral Music Courses

MU 0711 Chorus

Grades 9, 10, 11, 12

Prerequisite – All students must sing a short exercise for the choral director to ensure they are placed on the correct voice part.

This group will be open to serious minded students who wish to have a musical experience in singing with a mixed chorus. The chorus, in addition to being an important group, will function as a training group for the more select concert choir. The chorus will perform music of a variety of styles, and learn about choral techniques and voice training. Note: Attendance at all dress rehearsals, assemblies, and concerts is mandatory for all singers in every choral group. Students in Chorus will be required to purchase a choral uniform polo shirt.

MU 0706 Blue Note

Grades 10, 11, 12

Prerequisite – Successful completion of chorus and permission of the choral director.

This advanced choral group is open only to those students who have proven their ability to perform music on an advanced level. This choir will perform in concerts in the community in addition to regular school functions. Singers should be prepared to give all the extra time necessary for these performances. New students must purchase a choir gown. Note: Attendance at all dress rehearsals, assemblies, and concerts is mandatory for all singers in every choral group. Students will be required to purchase a choral gown.

MU 0710 Bel Canto

Grades 10, 11, 12.

1.0 credits

Prerequisite – Successful completion of chorus and permission of the choral director.

This group will consist of the finest members of the choral department and will perform advanced repertoire. A high level of choral ability is required. Only the most serious and dedicated singers will be considered, since the vocal and personal demands will be great. Note: Attendance at all after school/evening rehearsals and concerts is mandatory for all singers in every choral group. Sopranos/Altos will be required to purchase a choral gown.

Physical Education/Health

No.	Course	Grade				Credit
		9	10	11	12	
PE 0754	Physical Education	9	10	11	12	.50
HE 0761	Health		10			.50
PE 0758	Lifeguard Certification		10	11	12	.50

PE 0754 Physical Education

Grades 9, 10, 11, 12 **½ year, .5 credits**

Physical Education is required of all students at West Haven High School, unless a doctor's certificate is presented showing a physical disability that prevents participation. Elective and co-education activities are the essence of the total program which allows recreational and social values of physical education to be emphasized. The slate of offerings includes team and individual sports along with cooperative and leisure time activities encouraging a lifelong commitment to physical wellness. Students must take physical education for at least 2 semesters and earn 1 credit in physical education in order to satisfy the graduation requirement. A unit of health may be implemented to this course. In order to continue a commitment to physical fitness and well-being throughout their four (4) years of high school, the Physical Education Department strongly recommends that students take physical education as an elective once their requirement has been fulfilled. Note: All sophomores are required to take the Connecticut Physical Fitness test during either semester 1 or semester 2.

HE 0761 School Health

Grade 10 **½ year, .5 credits**

For all 10th grade students. This course is designed as a tool to help students acquire accurate health information using twenty-first century skills, developing lifelong positive attitudes and behaviors, and making healthy decisions throughout their life. They will learn how to acquire current information that emphasizes Drugs, Alcohol, Sexuality, Nutrition, Fitness, Mental and Social Health.

PE0758 Lifeguard Certification

Grade 10, 11,12 **½ year, .5 credits**

American Red Cross water safety and lifeguarding courses are designed to help you not only help others stay safe in, on, and around the water, but can help you learn the latest safety and rescue techniques, and deliver critical care, like CPR, first aid, and AED administration. Classes will cover a variety of important skills that can not only help you stay safe and help others enjoy the water safely, but can help you begin, or advance, your career.

Lifeguarding class prerequisites: Minimum age: 15 years; Swim 300 yards continuously; Tread water for 2 minutes using only the legs; Complete a timed event within 1 minute, 40 seconds by starting in the water; swimming 20 yards, surface dive to a depth of 7 to 10 feet to retrieve a 10-pound object, return to the surface and swim 20 yards on the back to return to the starting point, exit the water without using steps or a ladder.

This a one semester course. You will be required to swim each class. Upon successful completion of the course you will be eligible for your lifeguarding certificate.

If you are interested in this class, you must complete the Lifeguard form on powerschool.

Career & Technology Education

Career & Technology Education is composed of the following departments: Business/Marketing Education, Family and Consumer Sciences, Technology Education and Nursing. The rapidly changing workplace of the 21st century will require skills that students in past years have not possessed. Nontraditional employment for young women and young men will provide tremendous opportunities for

rewarding careers after graduation. Enrolling in Career and Technology Education classes will provide students with these essential skills for both college and career success.

Career & Technology Education - Business/Marketing Education

No.	Course	Grade				Credit	
		9	10	11	12		
BU 0210	Accounting I	9	10	11	12	1.00	S
BU 0235	Business Management			11	12	1.00	S
MK 0222	Marketing & Management I		10	11	12	1.00	S
MK 0232	Marketing & Management II			11	12	1.00	S
CS 0488	Webpage Design	9	10	11	12	.50	S
BU 0209	Google Applied Digital Skills	9	10	11	12	.50	S
BU 0230	Mobile App Game Design I	9	10	11	12	.50	S
BU 0240	Mobile App Game Design II	9	10	11	12	.50	S
BU 0439	AP Computer Science			11	12	1.00	S
BU 0204	Introduction to Coding	9	10	11	12	.50	S
BU 0217	Economics			11	12	1.00	S

Business, Marketing, and Computer Information Systems Progressions		
9th Grade	10th Grade	11th or 12th Grade
Information Technology Career Cluster- Programming and Software Development Pathway (Computer Information Systems)		
Mobile App Game Design I Introduction to Coding Webpage Design	Mobile App Game Design I Mobile App Game Design II AP Computer Science Introduction to Coding Webpage Design AP Computer Science	Mobile App Game Design I Mobile App Game Design II AP Computer Science Introduction to Coding Webpage Design AP Computer Science
*STEM courses can supplement CIS Pathway Students		
Business Management and Administration Career Cluster		
Google Applied Digital Skills	Google Applied Digital Skills Accounting I	Google Applied Digital Skills Accounting I Economics
Marketing Career Cluster		
	Marketing & Management I	Marketing & Management I Marketing & Management II

BU 0210 Accounting I**Grades 9,10, 11, 12****1.00 credit**

This course provides a basic understanding of the fundamentals of accounting which involves the recording of financial information and the preparing of financial statements. The student will obtain an in-depth analysis and study of small business operation. This course will address the language of business, business practices, business transactions, the accounting cycle, and the maintenance and management of proper accounting records involved in business operation. Accounting I will also prepare the students for advanced study at the college level. This course requires basic math skills to be successful. Accounting I is required for students planning to take Accounting II.

MK 0222 Marketing and Management I**Grades 10, 11, 12****1.00 credit**

Note: Students must join Distributive Education Clubs of America (DECA)

Marketing and Management I is an introductory course designed to acquaint students with the world of marketing. Students will learn how marketing activities are conducted on a local, as well as global scale. This course stresses service and ethical relationships, especially from the viewpoint of the consumer.

MK 0232 Marketing and Management II**Grade 11, 12****1.00 credit**

Prerequisite –Successful completion of Marketing and Management I (BU0222) Note: Students must join Distributive Education Clubs of America (DECA)

Marketing and Management II is an advanced course of marketing, merchandising, and management.

This is a detailed study of the principles of marketing and the application of these principles in the free enterprise system. Various management concepts are pursued. Students pursue the possibility of owning their own business in a comprehensive case project.

DECA is an integral part of the program and helps to provide leadership development activities. Students participate in regional, state and national DECA Career Development Conferences. Students can be involved in the operation of the school store, “The Devil’s Den”. In addition, DECA sponsors a variety of activities such as the annual Initiation & Installation Banquet, Winter Wonderland Semi-Formal dinner dance, as well as Fashion Fest for springtime prom fashions where marketing and promotional knowledge is put to use.

CS 0488 Webpage Design**Grades 9, 10, 11, 12****½ year, .5 credit**

This half year semester course provides students with a major emphasis on the principles and design of websites. Students will master HTML and then move into Adobe Creative Suite utilizing Dreamweaver and Photoshop. Students will start to create webpages for themselves and clients.

BU 0209 Google Applied Digital Skills**Grades 9, 10, 11, 12****½ year, .5 credit**

Google Applied Digital Skills teaches students the practical skills they need for work and life. Students will work both independently and collaboratively to build projects using Google Docs, Sheets, Slides, Drawing and other G Suite apps. As students progress through themed lessons, they discover how the digital skills they are practicing apply to real-world situations, such as budgeting for a big purchase, finding credible sources about a topic, or planning an event. They also learn communication, collaboration, time management, persistence, and other “soft skills” in high demand for education and jobs. Projects will also include fun activities like creating personal badges, creating memes, and designing google sheet art. This course is educational and fun! A perfect elective that will earn each student the required .5 technology credit.

BU 0230 Mobile App Game Design I**Grades 9, 10, 11, 12****½ year, .5 credit**

Mobile games are a hot segment of the Mobile App Market. In this course students will develop their own mobile app game using a professional Mobile app development software called Game Salad. In this course students will master the ability to create and publish games using the Drag and Drop software from Game Salad Creator. Students will prepare and build games from start to finish and they will learn how to publish and sell their games in the mobile app marketplace.

BU0240 Mobile App Game Design II

Grades 9, 10, 11, 12 **½ year, .5 credit**

Prerequisite – Successful completion of BU 0230 Mobile App Game Design I

This course is a continuation of Mobile App Game Design I. Students will dive deeper into the world of Mobile gaming, exploring concept development and using advanced programming with Objective C, Html 5 and X Code.

BU 0235 Business Management

Grades 10, 11, 12 **1.00 credit**

Prerequisite: Successful completion of BU 0222 Marketing and Management I with a “C” or better and successful completion.

Business Management is a full year course designed to teach students to understand and analyze various management theories and apply them to the workplace. Students will learn the process of using organizational resources effectively and efficiently to achieve organizational goals through planning, organizing, leading/directing, and evaluating/controlling. Students will have opportunities to experience business management and marketing first hand with work opportunities when available, such as the “The Devils Den” school store.

BU 0439 AP Computer Science

Grades 11, 12 **1.00 credit**

Prerequisite – Successful completion of CS 0488 Webpage Design or BU 0230 Mobile App Game Design I or Successful completion of Project Lead the Way STEM 1002 Digital Electronics and STEM 1001 Principles of Engineering.

In this course, students will learn computer science by building socially useful mobile apps. In addition to programming and computer science principles, the course is project-based and emphasizes writing, communication, collaboration, and creativity. This course is supported by the Mobile Computer Science Principles Project (Mobile CSP), an NSF-funded effort to provide a broad and rigorous introduction to computer science based on App Inventor, a mobile programming language for Android devices. The course is based on the College Board's Advanced Placement (AP) Computer Science Principles curriculum framework for introductory computer science.

BU 0204 Introduction to Coding

Grades 9,10,11,12 **½ year, .5 credit**

This is a course that touches on all aspects of coding giving students a broad base of what it means to code for different modalities. Students will touch on Web Design coding with HTML, CSS and Javascript. Students will then be introduced to coding utilizing drag- and drop programming creating robot movements with Code.org and CodeHS. Students will get a brief exposure to creating a mobile application with MIT App Inventor and then progress onto creating programs in the marketable programming languages of Python, Java and database programming language SQL

BU 0217 Economics

Grades 11,12 **1.00 credit**

Macroeconomics introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

Career & Technology Education – Family and Consumer Science

No.	Course	Grade				Credit	
		9	10	11	12		
FC 0304	Food Skills & Nutrition I	9	10	11	12	.50	S
FC 0305	Careers in Food & Nutrition	9	10	11	12	.50	S
FC 0317	Fashion & Fabrics	9	10	11	12	.50	S
FC 0318	Advanced Fashion & Fabrics	9	10	11	12	.50	S
FC 0309	Intro to Early Childhood Education	9	10	11	12	.50	S
FC 0310	Early Childhood Education		10	11	12	.50	S
FC 0311	Parenting & Family	9	10	11	12	.50	S
FC 0316	Culinary Arts		10	11	12	1.00	S

Early Childhood Education: Education and Training Pathway	
9th Grade	10th or 11th or 12th Grade
Introduction to Early Childhood Education Parenting and Family	Introduction to Early Childhood Education Early Childhood Education Parenting and Family
Culinary: Hospitality and Tourism- Restaurants & Food/Beverages Services Pathway	
9th Grade	10th or 11th or 12th Grade
Food Skills and Nutrition 1 Careers in Food and Nutrition	Food Skills and Nutrition 1 Careers in Food and Nutrition Culinary
Fashion and Fabrics: Visual Arts/Apparel and Furnishings Pathway	
9th Grade	10th or 11th or 12th Grade
Fashion and Fabrics Advanced Fashion and Fabrics	Fashion and Fabrics Advanced Fashion and Fabrics

FC 0304 Food Skills & Nutrition I

Grades 9, 10, 11 12

½ year, .5 credits

This course is an introductory course for students to gain experience working in a professional kitchen environment, while learning the principles of food and nutrition. Emphasis is placed on techniques and technology used in the foods industry. Proper nutrition and simple recipes to achieve good health are taught. Students will learn to prepare simple recipes to achieve good health. Students will learn safety and sanitation competencies, quantity food preparation, food storage requirements, and weights and measures. Students' objectives will be focused on practical application of skills. Students will investigate careers in the food industry. Basic knowledge for a healthier diet will be emphasized with the Government Plate as a focus. Students will also understand the responsibilities of an individual working as part of a team.

FC 0305 Careers in Food & Nutrition

Grades 9, 10, 11, 12 ½ year, .5 credits

Prerequisite – successful completion of Food Skills & Nutrition (FC 0304) with a “C” or better and the signature of the teacher.

Students will build upon principles learned in Food Skills & Nutrition with more challenging recipes being prepared. An in-depth investigation into careers in the food service and hotel and restaurant management area will be undertaken. Other topics covered are related health issues, job opportunities in the foods world, and principles of restaurant management. This course should be selected by students who have a genuine interest in this area of study.

FC 0317 Fashion and Fabrics

Grades 9, 10, 11, 12 ½ year, .5 credits

Express your individual style. Students will experience basic apparel and home design construction skill through the use of commercial patterns. They will select and construct one apparel project and one home accessory in sewing lab. Fashion history and the elements of design will be studied. Additional topics include: self-expression through apparel, fibers and textiles, math skills used in sewing, and career options in the textile and apparel industries. Students are encouraged to provide a pattern and fabric to enhance their project.

FC 0318 Advanced Fashion and Fabrics

Grades 9, 10, 11, 12 ½ year, .5 credits

Prerequisite – successful completion of Fashion and Fabrics (FC 0306).

Express your individual style. This course is for students who have a passion for the world of fashion and want to refine their sewing construction skills. Students will be introduced to a variety of advanced sewing techniques. The upcycling of garments will be encouraged by recycling and reusing ready-to-wear clothing. Students are encouraged to provide a pattern and fabric to enhance their project.

FC 0309 Intro to Early Childhood Education

Grades 9, 10, 11, 12 ½ year, .5 credits

This course is for all future parents, future childcare professionals, and those who want to learn about children. Students learn about the physical, social-emotional, and intellectual development of children from birth to preschool age with emphasis on understanding behavior and its relationship to growth. Through this study, students develop an appreciation of the best ways to guide and teach children during their formative years. These skills can be applied to careers in child care or teaching, and are indispensable as preparation for parenting. A highlight of the course is caring for a life-like computerized Real Care Baby. This course is recommended for students interested in the fields of child care and early childhood education.

FC 0310 Early Childhood Education

Grades 10, 11, 12 ½ year, .5 credits

Prerequisite – successful completion of Intro to Early Childhood Education (FC 0309 or Child Development I.

This course is a study of the historical, philosophical and social perspectives of early care and education. The importance of child development from birth to age eight years is emphasized and used in field experience/observations of children in early care and education settings. The course acquaints students with trends in educational settings, curriculum planning based on the knowledge of developmentally appropriate teaching practices, and explores the role of the teacher in an early childhood learning environment. Students continue to use the life-like computerized Real Care Baby in this course. This course is recommended for students interested in the fields of child care and early childhood education. *Eligible students can apply for Dual Enrollment with Gateway Community College for Introduction to Early Childhood Education ECE101-3 credits.*

Dual Enrollment Eligibility: Students can qualify to apply for Dual Enrollment with a qualifying Math and English score on the SAT/ACT OR by obtaining a minimum of 73% in English I, II or III (or the equivalent to English I, II, or III). Students can additionally qualify by taking the Accuplacer at GCC (free of charge) once they have submitted their application forms.

FC 0311 Parenting and Family**Grades 9, 10, 11, 12****½ year, .5 credits***Prerequisite- Successful completion of Child Development I or Introduction to Early Childhood Education FC0309.*

This course explores the roles and responsibilities of parenting. The emphasis of this course is on the development of good parenting skills and decisions that will meet the physical, social-emotional, and intellectual needs of the family, both adult and child. The student will study and evaluate various theories of parenting experts and the everyday individual. Emphasis is placed on the practical aspects of managing a home, such as healthy eating, financial planning, and raising a family. A highlight of the course is caring for a life-like computerized, Real Care Baby. This course is recommended for future parents and those interested in careers in teaching, childcare, and medical field.

FC 0316 Culinary Arts**Grades 10, 11, 12****1.00 credits***Prerequisite – Successful completion of both Food and Nutrition I (FC0304) and Careers in Food and Nutrition (FC 0305) with a “B” average or better and the signature of the Culinary Arts teacher. Food and Nutrition II and Culinary Arts may not be taken concurrently.*

This full year course allows students to continue the work they began in Food and Nutrition and Career in Foods II. Topics include Preparing for a Successful Career, The History of Foodservice, Potatoes and Grains, The Art of Service, Desserts and Baked Goods, Marketing and the Menu, Purchasing and Inventory Control, Meat, Poultry and Seafood, Stocks, Soups and Sauces, and Communicating with Customers. Students create and prepare weekly menus for resale to school staff on a regular basis.

*Students may enroll in the Gateway Community College Dual Enrollment Program to earn 3 college credits for the Introduction to Food Preparation course (HSP 101-3 credits).**Dual Enrollment Eligibility: Students can qualify to apply for Dual Enrollment with a qualifying Math and English score on the SAT/ACT OR by obtaining a minimum of 73% in English I, II or III (or the equivalent to English I, II, or III) AND a minimum of 73% in Algebra I, Algebra II, Pre-Calculus, or Calculus (or the equivalent to Algebra I, Algebra II, Pre-Calculus, or Calculus). Students can additionally qualify by taking the Accuplacer at GCC (free of charge) once they have submitted their application forms.***Career & Technology Education – Technology Education**

No.	Course	Grade				Credit	
		9	10	11	12		
TE 0405	Introduction to Wood Technology	9	10	11	12	.50	S
TE 0406	Advanced Wood Technology	9	10	11	12	.50	S
TE 0506	Construction Systems		10	11	12	1.00	S
TE 0408	Introduction to Transportation Technology and Careers	9	10	11	12	.50	S
TE 0409	Automotive Technology Fundamentals	9	10	11	12	.50	S
TE 0410	Transportation Technology - Automotive Systems		10	11	12	1.00	S
TE 0415	Graphic Design I	9	10	11	12	.50	S
TE 0417	Advanced Graphic Design		10	11	12	1.00	S
TE 0509	Introduction to Computer Aided Design		10	11	12	.50	S
TE 0505	Advanced Computer Aided Design		10	11	12	.50	S

consumer and career awareness, and social and environmental impacts will be covered. Large group projects will be constructed providing hands-on experiences.

TE 0408 Intro to Transportation Technology and Careers

Grades 9, 10, 11, 12 **½ year, .5 credits**

Transportation Technology will provide a comprehensive coverage of vehicular systems such as air, land, water, and space. In addition, it will explore support systems for moving goods and people in various environments. Students will explore the effects of transportation technology on individuals, society, and the environment. Teachers will provide students the opportunity to apply knowledge through “hands-on” activities related to topics and careers within Transportation Technology. Topics can include energy, propulsion, logistics, and design and analysis of vehicles and systems. This class is designed to provide students an introduction to various industries related to transportation.

TE 0409 Automotive Technology Fundamentals

Grades 10, 11, 12 **½ year, .5 credits**

Prerequisites: TE 0408 Introduction to Transportation Technology and Careers

The theory, practice, and production work on the power train of the automobile are taught. Basic automotive maintenance, light repair work and routine engine tune-ups are covered. Students will learn personal and environmental safety practices. Consumer and career awareness, and social and environmental impacts will be covered.

TE 0410 Transportation Technology Automotive Systems

Grades 10, 11, 12 **1.00 credit**

Prerequisite – Successful completion of Introduction Automotive Technology Fundamentals (TE 0509) or Transportation Technology Automotive I (TE 0409)

This course is designed for students with advanced standing in the automotive course progression. Work on the automotive power train of the automobile is continued. Major automotive systems and components are explored. Systems covered include brakes, steering and suspension, automatic and manual transmissions, electrical systems, and HVAC. This course emphasizes hands-on repair work, diagnostics, and service technology theory and practice. Post-secondary training as well as career awareness and proper diagnosis and repair procedures, including safety and service technology, will be highlighted throughout the class. Students will be prepared to enter post-secondary training programs and apprenticeships at the conclusion of this class.

This class is anticipated to gain articulation with the Gateway Community College course Automotive Specifications (AUT132-3 credits) for 2021-22. If articulated, students may enroll in the Dual Enrollment program to earn 3 college credits for this course through Gateway Community College. Dual Enrollment Eligibility: Students are required to complete an online safety program independently as assigned by the instructor.

TE 0415 Graphic Design I

Grades 9, 10, 11, 12 **½ year, .5 credits**

This course is designed to give the student practical experience in desktop publishing and image editing. Through hands-on application, students will learn the basics of typography, design principles, planning stages, page layout, scanning, and image editing using Adobe Photoshop and Adobe InDesign. This course will be taught using the Macintosh computer platform.

TE 0417 Advanced Graphic Design

Grades 10, 11, 12 **1.00 credits**

Prerequisite- Successful completion of Graphic Design I and permission of the Graphic Design teacher.

This course is designed to build upon the knowledge gained in Graphic Design II by providing the student with “real life” printing experiences. This is a hands-on course where students get firsthand experience working in a small printing business. Students enrolled in this course will work cooperatively in a production-based environment while producing printed jobs having various degrees of difficulty. Upon successful completion of this course, students will have acquired the necessary skills and experiences needed to pursue an entry-level position in the printing industry.

TE 0509 Introduction to Computer Aided Design**Grades 10, 11, 12** **½ year, 0.5 credit**

Students will learn the fundamentals of technical drawings and design by working on computer aided design (CAD) systems. Focus will be placed on using 3-d modeling CAD systems to communicate various product designs to industry standards.

TE 0505 Advanced Computer Aided Design**Grades 10, 11, 12** **½ year, 0.5 credit**

Prerequisite-Successful completion of Introduction to Computer Aided Design or STEM1000 Introduction to Engineering Design

Students will build upon content learned in Introduction to CAD or STEM Introduction to Engineering Design and complete design projects for prototyping and manufacturing using 3-D modeling computer aided design (CAD) software. Design standards, such as geometric dimensioning and tolerancing, will be used in student designs. Students will complete designs from concept to prototype. Various prototyping techniques and machines, such as a three dimensional printer, will be used by students to model designs.

Career & Technology Education - Nursing

No.	Course	Grade				Credit	
NU 0460	Nursing/CNA Experience			11	12	3.00	S
NU 0461	Careers in Health Care			11	12	.50	S

NU0460 Nursing/CNA Experience**Grade 11,12** **3 periods/day, 3 credits**

Prerequisite – Permission of the Nursing Assistant teacher. Student-Teacher-Parent signed contract. Must be 16 years old by the end of the course. Must carry health insurance coverage (school or private).

The Nursing/C.N.A Experience course consists of three major components: Nursing Assistant Program and Clinical Experience. The Nursing Assistant Program prepares the student who is interested in a health related career for entry level employment as a state certified nursing assistant (C.N.A.) Students interested in any career in the health field will benefit by this introduction to the real-world of patient care. Nursing Assistant students are introduced to the home management skills necessary to adapt C.N.A. practices to the homebound patient. During Semester 2, Nursing Assistant students work at a local skilled facility caring for geriatric patients. Upon successful completion of this program and state testing, students receive a certificate qualifying them for immediate employment in a field that offers very substantial wages and job opportunities. This is a work, career, and college readiness program with a requirement to demonstrate good employability skills. *Students may apply to the Gateway Community College Dual Enrollment Program to earn 3 college credits for the Investigations in Health Careers course (HLT 103-3 credits).* ***Students interested in nursing are recommended to refer to PLTW Biomedical Science Classes on page 48.**

NU0461 Careers in Healthcare**Grades 11 & 12** **½ year, .5 credits**

This course is an introduction to the many career opportunities available in the health care field. Students will examine the educational requirements, career outlook, and skills needed for a variety of certified and licensed health occupations. Instruction includes history of health care, career planning, employability skills, and workplace safety. This is a work, career and college readiness program with a requirement to demonstrate good employability skills. Integrated throughout the course are the healthcare standards of practice, which include effective communication, ethical behavior, interpersonal skills, critical thinking, problem solving, and technology. Guest speakers will share career experiences. Students taking this class are part of the Gateway Community College Dual Enrollment Program, “College Now”. Students will enroll in Gateway Community College, HLT103 Investigations in Health Careers to earn free college credit (3 credits). *Students may apply to the Gateway Community College Dual Enrollment Program to earn 3 college credits for the Investigations in Health Careers course (HLT 103-3 credits).*



PROJECT LEAD the WAY (PLTW)

Project Lead the Way – a pathway to careers in engineering, technology, and biomedical sciences.

In conjunction with the University of New Haven and a national network of colleges and universities, West Haven High School has implemented a nationally recognized pre-engineering and pre-biomedical sciences program known as Project Lead the Way (PLTW). PLTW is the leading provider of rigorous and innovative Science, Technology, Engineering, and Mathematics (STEM) education curricular programs across the United States. STEM education is at the heart of today's high-tech, high-skill global economy. For America to remain economically competitive, our next generation of leaders -- the students of today -- must develop the critical-reasoning and problem-solving skills that will help make them the most productive in the world.

PLTW enables students to enroll in a wide range of courses that engage students in activities, projects, and problem-based (APPB) learning that immerses students with applied technology. Students create, design, build, discover, collaborate and solve problems while applying what they learn in math and science. They're also exposed to STEM fields through a wide range of connections to business, industry, colleges and universities. Students can benefit greatly from the knowledge, logical thought processes and teamwork that result from taking one, some, or all of the courses provided in PLTW programs.

West Haven High School offers two PLTW Pathways: Engineering and Biomedical Science.

The PLTW Engineering and Biomedical Sciences courses fulfil the computer and technology graduation requirement.

Engineering Pathway

PLTW Engineering is more than just another high school engineering program. It is about applying engineering, science, math, and technology to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the "right" answer. They learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation.

PLTW students have said that PLTW Engineering influenced their post-secondary decisions and helped shape their future. Even for students who do not plan to pursue engineering after high school, the PLTW Engineering program provides opportunities to develop highly transferable skills in collaboration, communication, and critical thinking, which are relevant for any coursework or career.

Engineering Pathway Courses	
Foundation Courses	Specialization Courses
<ul style="list-style-type: none"> ● Introduction to Engineering Design ● Principles of Engineering 	<ul style="list-style-type: none"> ● Civil Engineering and Architecture ● Digital Electronics ● Cybersecurity

Biomedical Science Pathway

The PLTW Biomedical Sciences (BMS) Program is a rigorous program for motivated students that is aligned to appropriate national learning standards, which follow a proven hands-on, real-world problem-solving approach to learning. Throughout BMS, students acquire strong teamwork and communication practices, and develop organizational, critical-thinking, and problem-solving skills. Along the way students investigate a variety of careers in biomedical sciences. The program is designed to prepare students to pursue a post-secondary education degree and technical programs in the biomedical sciences and health careers.

Biomedical Science Pathway Courses	
Foundation Courses	Specialization Courses
<ul style="list-style-type: none"> Principles of Biomedical Science Human Body Systems Medical Intervention 	<ul style="list-style-type: none"> Biomedical Innovations



Project Lead the Way – College Credit Options

Students who successfully complete the end of course exam pay qualify for college credits at the University of New Haven or one of the PLTW affiliated college or universities. *

The PLTW experience develops motivated, well-rounded students by instilling confidence, stressing the importance of self-discovery, encouraging innovative problem solving and critical thinking, teaching team building, and rewarding creativity. The program is fun and students gain a critical opportunity to put their math skills to work in almost every class.

PLTW classes are nationally standardized project-based courses that prepare students for college-level work and culminate with a student assessment, which colleges and universities can use to determine if a student earns college credit. In order to be eligible for college credit, students must attend a certified PLTW school, earn a satisfactory grade in the respective PLTW course, and pass a college level final examination. Once eligible for credit, students would then apply for transcript credit (approximately \$200-\$300) through a PLTW regional college or university. The University of New Haven, for example, is the local affiliated University for the PLTW Engineering program. This credit is official transcript credit through the college or university. It is important to understand that colleges and universities, both PLTW affiliated and non-affiliated, can accept the transcript credit in multiple ways. The following are ways in which post-secondary institutions that are articulated with PLTW:

- **Course Substitution Credit** - PLTW course substitutes for a program course. Treated similar to AP or transfer credit.
- **Advanced Standing Credit** - PLTW course eliminates the need for an elective course; or gives them no course credit, but gives them credit to advance their class standing (i.e. early registration, parking preferences, early financial assistance increase due to reaching junior status quicker).
- **Partial Course Credit** - Grant partial credit for a course, thus reducing the tuition to the student, but not the time.
- **Bridge Courses** - Course designed specifically to fill any gaps between the PLTW courses and related program courses.
- **Retro-Credit Model**- Students who successfully complete a higher level course in a sequence are granted program credit for a prerequisite course.
- **Test-out or Challenge Exam** - Students are allowed to sit for a challenge exam, which upon successful completion, will give them credit for the program course.

*To view the official list of affiliated universities please visit www.pltw.org. Currently, the Cybersecurity course does not have an affiliate college or university that offers college credit.

Engineers help to design, manufacture, and solve problems for just about everything—from the tallest skyscrapers to the smallest computer chips, from children’s toys to space shuttles, from lifesaving pharmaceuticals to artificial heart valves. Even though their efforts are all around us, the work of engineers can seem like a mystery to those outside the profession. In the most general terms, engineers are problem-solvers. They apply the concepts of mathematics and science to solving real-world challenges. The engineering profession includes many different disciplines. In fact, engineering may offer more career options than any other profession. Engineers are a diverse group, contributing to projects that improve the quality of life on every continent. A background in engineering can also lead to a career in law, business, education, medicine, or public policy.

Possible Engineering and Engineering Technologist career fields include: Aerospace, Agriculture, Architecture, Alternate Energy, Biomedical, Biotechnology, Chemical, Civil Systems and Design, Computer Software/Technology/Systems, Environmental, Manufacturing, Materials, Mechanical, Medical, Networking, Nuclear, Ocean Engineering and Technology, Pharmaceutical, Power, and Transportation.

PLTW Engineering Courses

All Project Lead the Way (PLTW) courses are electives. Honors weighted credit will be awarded to those students who fulfill conditions set forth in the Honors Agreement to perform at a proficient level in the respective course.

STEM 1000 Introduction to Engineering Design

Grades 9,10,11,12

1.00 credit

Prerequisite: Algebra I

This course emphasizes the development of design and communication. Students study the design concepts of form and function; then, use state-of-the-art technology to translate conceptual design into reproducible products. During Introduction to Engineering Design student learning will culminate in students completing an innovation project. Introduction to Engineering Design is a course that teaches problem solving skills utilizing the design-development process. Effective teamwork is central to project based assignments. Models of products are created, analyzed, evaluated, and communicated using solid modeling computer design software. Students will also be introduced to how product design interfaces with business, marketing, manufacturing, and operations. Students can design a wide range of products from children's toys to prosthetics and biomedical devices. Students will maintain a design portfolio throughout the course.

STEM 1001 Principles of Engineering

Grades 10,11,12

1.00 credit

Prerequisite: Successful completion of Algebra I with a C or better OR concurrent enrollment in Geometry

This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Students develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. Through theory and practical hands-on experiences, they address the emerging social and political consequences of technological change. Exploring various engineering systems and processes helps students learn how engineers and engineering technicians use math, science, technology, and teamwork in an engineering process to benefit society. Applied physics concepts are introduced and utilized to help analyze project solutions. Instructional units utilize supplementary engineering analysis software. Topics include: overview of engineering, design process, communication and documentation, energy, electricity, control systems and robotics, engineering systems, thermodynamics, engineering for quality and reliability, statics and kinematics, fluid mechanics (hydraulics & pneumatics), and structures.

STEM 1005 Civil Engineering and Architecture (CEA)**Grades 10, 11, 12****1.00 Credit***Prerequisite: Successful completion of Algebra I*

The major focus of this course is completing long-term projects that involve the development of property sites. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a property. The course provides teachers and students freedom to develop the property as a simulation or for students to model the experiences that civil engineers and architects face. Students work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use 3D design software to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems and communicating their solutions to their peers and members of the professional community of civil engineering and architecture.

STEM 1002 Digital Electronics (DE)**Grades 10,11, 12****1.00 Credit***Prerequisite: Successful completion of Algebra I*

Digital electronics is the foundation of all modern electronic devices such as mobile phones, laptop computers, digital cameras and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation.

STEM 1008 Cybersecurity**Grades 11,12****1.00 credit***Prerequisite: It is recommended that students take at least 1 PLTW Engineering Course prior to this course.*

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely

Project Lead the Way (PLTW): Biomedical

No.	Course	Grade				NCAA	Credit	
SC 0403	Principles of Biomedical Science	9	10	11	12	SC0403	1.00	S
SC 0405	Human Body Systems		10	11	12	SC0454	1.00	S
SC 0455	Medical Interventions			11	12	SC0455	1.00	S
SC 0409	Biomedical Innovation Capstone Course				12	Pending	1.00	S

The rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body – often playing the role of biomedical professional. Students engage in activities such as investigating the death of a fictional person to learn content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease, all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future. Each course in the Biomedical Science sequence builds on the skills and knowledge students gain in the preceding courses.

*Students can concurrently enroll in nursing classes.

Possible related career fields can include: Medical technologist, clinical laboratory scientist, dentistry, dietetics, health information and communication, health services administration, physicians, physician assistants, medical assistant, mental health professionals, nursing (certified nursing assistant, licensed practical nurse, registered nurse), pharmacist, pharmacy technician, public health professional, environmental health specialist, radiologist, radiologic technologist, biomedical engineer, researcher, therapy (athletic, audiologist, occupational, physical, respiratory, speech), veterinarian, veterinary technician, vision care (optometrist, optometrist technician), scientist, process technician, facility technician.

PLTW Biomedical Science Courses

All Project Lead the Way (PLTW) courses are electives. Honors weighted credit will be awarded to those students who fulfill conditions set forth in the Honors Agreement and pass the end of course (EoC) exam at a proficient level.

SC0403 Principles of Biomedical Science

Grade 9,10,11

1.00 credit

This course is designed for the motivated student who has strong interest in the biomedical sciences and health related careers. This is the first course in the Biomedical Science sequence. Preference may be given to students who can continue in the Biomedical Science program subsequent years. In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

SC0454 Human Body Systems

Grades 10,11,12

1.00 credit

Prerequisite: Principles of Biomedical Sciences OR Junior or Senior with successful completion of Biology and Chemistry with a C or higher in both classes.

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

SC0455 Medical Interventions

Grades 11,12

1.00 credit

Prerequisite: Human Body Systems. Can be taken concurrently with Human Body Systems with the permission of the instructor.

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

SC 0409 Biomedical Innovation Capstone Course

Grade 12 **1.00 credit**

Prerequisite: Medical Interventions

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

World Languages

Introduction

West Haven High School offers classes in French, Italian, Spanish and Spanish for Native Speakers. Students are assigned to classes according to completed years of achievement. The first two years of each language study include the basic elements of early language learning: memorization and retention of vocabulary, conjugation of verbs in the present and past tenses, listening, reading, speaking, writing in the target language, and a comparison of cultures. Years three and beyond include honing and refining these skills through small group learning opportunities, written compositions, term papers, class presentations and conversation in the target language.

The world language program offers students the opportunity to learn to communicate in a second language; to appreciate the similarities among cultures and to embrace their differences; to develop an understanding of the increasingly multicultural society in which they live; and to recognize the potential use of world language in future careers.

Placement in the world language program is based upon teacher recommendation and the student’s demonstrated achievement in the class by maintaining a C- average or higher. Spanish speaking students have classes that have been designed especially for their unique needs: The regular Spanish classes are not an option. Students who have completed one full academic year in Spanish at the middle school level are encouraged to begin with Spanish level two or level one of Italian, or French; Spanish I is an option in some special cases.

In all world languages classes, including Level 1, the emphasis will be on speaking the target language.

No.	Course	Grade				NCAA	Credit
		9	10	11	12		
WL 0501	French I	9	10	11	12	WL 0501	1.00
WL 0502	French II		10	11	12	WL 0502	1.00
WL 0503	French III			11	12	WL 0503	1.00
WL 0513	Italian I	9	10	11		WL 0513	1.00
WL 0514	Italian II		10	11	12	WL 0514	1.00
WL 0552	Italian II Honors		10	11	12		1.00
WL 0515	Italian III			11	12	WL 0515	1.00
WL 0551	Italian III Honors			11	12		1.00
WL 0516	Italian IV				12	WL 0516	1.00

WL 0553	Italian IV Honors				12		1.00
WL 0518	Conversational Italian	9	10	11	12		1.00
WL 0519	Spanish I	9	10	11		WL 0519	1.00
WL 0521	Spanish II	9	10	11	12	WL 0521	1.00
WL 0520	Spanish II Honors	9	10	11	12	WL 0520	1.00
WL 0522	Spanish III		10	11	12	WL 0522	1.00
WL 0536	Spanish III Honors		10	11	12	WL 0536	1.00
WL 0523	Spanish IV			11	12	WL 0523	1.00
WL 0524	Spanish IV Honors			11	12	WL 0524	1.00
WL 0527	Spanish for Native Speakers	9	10	11	12	WL 0527	1.00
WL 0517	Conversational Spanish	9	10	11	12		1.00
WL 0529	AP Spanish - Language			11	12	WL 0529	1.00
EN 0001	E.S.L. Beginning Reading and Writing	9	10	11	12		1.00
WL 0534	Intermediate E.S.L.	9	10	11	12		1.00
WL 0554	Advanced ESL	9	10	11	12		1.00
ELL 4311	ELL Beginning	9	10	11	12		1.00

World Language Progression

9th Grade	10th Grade	11th Grade	12th Grade
Spanish I or II	Spanish III or IV	Spanish I, II, III, or IV	Spanish I, II, III, or IV
Spanish II Honors	Spanish II or Spanish III Honors	Spanish II, III, IV Honors	Spanish II, III or IV Honors, or AP Spanish
Italian I	Italian I or II	Italian I, II, III, or III Honors	Italian II, III, IV or IV Honors
French I	French I or II	French I, II or III	French II, III
Spanish for Native Speakers	Spanish for Native Speakers	Spanish for Native Speakers	Spanish for Native Speakers of AP Spanish

Language I **Grades 9,10,11**

French (WL0501), Italian (WL0513), Spanish (0519)

This course introduces the student to the fundamental sounds, structures, and patterns of the world language that will enable acquisition of elementary skills in listening, reading, writing, and speaking. Daily in-class listening and speaking activities will aid the student in obtaining proficiency. Daily homework activities include the memorization of vocabulary and the conjugation of verbs, completion of textbook and workbook activities, and the completion of written or oral portfolio assignments. In order to succeed in foreign language studies, the student is encouraged to possess strong skills in English grammar, to dedicate the adequate amount of time for homework and studying, and to maintain an interest in the language.

The department's pedagogical direction is geared towards learning a foreign language in meaningful and authentic real-life situations to develop communicative proficiency. The following communicative functions will be taught:

- | | |
|--|--|
| <ul style="list-style-type: none">● Introductions● Asking how someone is● Asking and saying how old someone is and where he/she is from● Talking about likes and dislikes● Telling what you want/need● Stating what is in the room● Talking about classes and sequencing events● Telling time● Describing people and things● Talking about things you like and why● Talking about what you do in your free time. | <ul style="list-style-type: none">● Telling where people and things are● Talking about what you and others do during free time● Discussion how often you do things● Making plans● Talking about the weather and seasons● Talking about what you do during a typical week● Providing the date● Describing people and family● Discussing problems and giving advice● The present tense of regular and irregular verbs |
|--|--|

Language II **Grades 9,10,11,12**

French (WL 0502), Italian (WL 0514), Spanish (WL 0521)

Prerequisite: A grade of "C-" or better in Language I course.

This course is a continuation of the skills and goals of language one; additional activities are used to refine and hone the student's ability in writing, reading, and responding in the target language.

The following communicative functions will be taught:

- | | |
|---|--|
| <ul style="list-style-type: none">● Describing people and places● Talking about what you and others do● Saying what you like and don't● Talking about how you are feeling● Making suggestions and responding to them● Saying if something has already been done● Asking for and offering help● Describing your city or town● Talking about your daily routine● Talking about responsibilities● Talking about hobbies and pastimes● Asking for and giving opinions● Giving advice● Making comparisons | <ul style="list-style-type: none">● Making plans● Telling someone what to do and not to do● Giving explanations● Relating a series of events● Ordering in a restaurant● Talking about what you used to do● Saying what you used to like and dislike● Describing what things and people were like● Using comparisons to describe people● Describing a past event● Leading a healthy lifestyle● Getting into shape● To use reflexive verbs and recent past |
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Language II Honors Grades 9, 10, 11, 12

Spanish (WL 0520), Italian

Prerequisite - Students are required to score an 80% average or higher on the placement test.

This intensive course includes the basic format covered in Language II with additional presentations, readings, and group work. The Honors program work ethic is strictly adhered to in the course.

Language III Grades 10, 11, 12

French (WL 0503), Italian (WL 0515), Spanish (WL 0522)

Prerequisite - A grade of "C-" or better in language II course

This course continues the study of a world language in meaningful and authentic real-life situations to develop communicative proficiency. Level three involves comprehension rather than memorization and requires a great deal of studying. Level three is taught almost exclusively in the target language.

WL 0536 Spanish III Honors

Grades 10, 11,12

Prerequisite - a grade of "B" or better in Spanish II (WL 0520, WL 0521)

This intensive course includes the basic format covered in Language III with additional presentations, readings, research papers, and group work. The Honor's program work ethic is strictly adhered to in this course.

WL 0551 Italian III Honors

Grade 11, 12

Prerequisite - a grade of "B or better in Italian II

This course will exceed the expectations of the Italian III course with additional oral presentations based on research of Italian culture, extended reading in Italian (nonfiction and fiction), and written research papers in the target language. Cooperative learning and work assignments will be an important part of this course. The Honor's program work ethic is strictly adhered to in this course.

<ul style="list-style-type: none">● Expressing interest● Indifference and displeasure● Asking for information● Describing yourself and others● Asking for and giving advice● Talking about what has happened and was happening● Talking about future events● Talking about preferences	<ul style="list-style-type: none">● Asking for help and requesting favors● Talking about hopes and wishes● Expressing an opinion● Making suggestions and recommendations● Expressing happiness and unhappiness● Expressing doubt and disbelief● The use of the past, imperfect, future, subjunctive, commands with reflexive verbs
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Language IV Grades 11, 12

Italian (WL 0516), Spanish (WL 0523)

Prerequisite – A grade of "C-" or better in Language III course and the instructor's recommendation.

This course emphasizes the reading and discussion in the language of classical and modern literacy selections and a comprehensive grammar review. This course is taught entirely in the target language. Students are required to write extensively in the target language including journal entries, critiques, research topics, newspaper entries, PowerPoint and other types of class presentations. On certain occasions, students will access the Internet and share their findings with the class.

WL 0553 Italian IV Honors

Grade 12

Prerequisite - A grade of "B or better in Italian III HONors or "B+" or better in Italian III and the teacher's recommendation.

Students must also review all grammar studied the previous year online and complete the quizlet.com assignment. The first week of school students will be given an assessment on the readings and grammar. Students are expected to complete weekly homework assignments, which may include readings based on current events, research or grammar topics studied in class. Students will be expected to communicate in Italian via writing and speech. Assessments will be comprised of writing, speaking, listening and reading comprehension. Grammar points covered will be the future tense, conditional, gerund, progressive tenses & subjunctive.

WL 0524 Spanish IV Honors

Grades 11, 12

Prerequisite - A grade of "B" or better in Spanish III Honors or "B+" or better in Spanish III.

The first week of school students will be given an assessment on the readings and grammar. Students are expected to complete weekly homework assignments, which may include readings based on current events, research or grammar topics studied in class. Students will be expected to communicate entirely in Spanish via writing and speech. Assessments will be comprised of writing, speaking, listening and reading comprehension. Grammar points covered will be subjective.

WL 0527 Spanish for Native Speakers I

Grades 9, 10, 11, 12

Prerequisite - Students must be able to speak, understand, read and write in Spanish

- Identify and explain the author's purpose for writing a particular text.
- Summarize information, including introduction, closing statements and main idea.
- Select and apply strategies to facilitate word recognition and develop vocabulary.
- Improve the general understanding of text, identify the main idea and subordinate ideas. Recognize the reader's connection to the story.
- Identify the elements of plot (exposition, foreshadowing, inciting force, rising action, crisis, climax, falling action, and resolution), characterization (major character and minor character), point of view (first person, third person objectives, third person limited and omniscient), theme, time, and place of story.

Conversational Language

Spanish (WL 0517), Italian (WL0518)

Grades 9, 10, 11, 12

Conversational Language is an introductory course which emphasizes listening comprehension and speaking ability. Students will learn the necessary vocabulary to communicate and participate in conversations. Students will develop proficiency in listening and speaking skills. Some reading and writing will be done to reinforce oral communication skills. Students will learn to greet others, introduce themselves, ask for information, describe themselves and family members, and interact in stores or restaurants. Listening activities will include clips from popular video and TV programs, as well as music. No prior language experience is required.

WL 0529 AP Spanish Language

Grades 11, 12

Prerequisite- Successful completion of Spanish IV (WL 0523), Spanish IV Honors (WL 0524) or Spanish for Native or Heritage Speakers (WL 0526 or WL 0527) with a "B" average or better.

AP Spanish Language course is comparable to an advanced Level (5th and 6th semester or the equivalent) college level Spanish language course. Emphasizing the use of Spanish for active communication, it encompasses listening/oral skills, reading comprehension, grammar, and composition. College credit may be earned by passing the ETS Advanced Placement exam in May. Students in this class will:

- Comprehend formal and informal spoken Spanish
- Acquire vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as of modern literature in Spanish
- Compose expository passages
- Express ideas orally with accuracy and fluency

- This course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines, rather than to the mastery of any specific subject matter. Students will receive extensive training in the organization and writing of compositions as an integral part of the AP course. Students who take this course are required to take the national AP exam in the spring. A passing grade earns credit at most colleges and universities.

Students who successfully complete Conversational Spanish may go on to take a Level 1 language course.

ESL (English as a Second Language)

This program exists to fulfill the needs of those students for whom English is not their native language. This program is offered through the World Language Department and teaches students the basics of English. English Language Learners (ELLs) must also develop language proficiency in order to succeed in other academic courses for which they receive accommodations and modifications. In addition to academic language and proper grammar, these students need to learn social language, pronunciation, cultural norms and differences, and when to use formal and informal English.

ESL Beginner Cohort Progression

Placement in the English as a Second Language (ESL) Beginner Cohort Progression is based annually on LAS Links results.

Math	Social Studies	English	Science	Elective
Math Skills (*SLIFE)	Comparative History and Literature E	Beginning ESOL Reading and Writing	Integrated Science E	ELL Beginning
Algebra I E	US History E	Comparative History and Literature E	Biology E	Intermediate ESL
Algebra II E	Issues in Government E	English II E		Reading Seminar
Geometry E				

***Students with Limited or Interrupted Formal Education**

WL 0534 Intermediate ESL

Grades 9, 10, 11, 12

Prerequisite - Overall score of 2 or 3 on LAS Links or score of AP on LAS Links Placement test.

Intermediate ESL builds on the skills developed in beginning ESL. Students will focus on:

- Building vocabulary
- Building speaking skills
- Developing writing skills (both fiction and non-fiction)
- Developing reading skills (both fiction and non-fiction)
- Developing grammar skills and syntax
- Building Reading Comprehension Skills
- Present performance tasks, information, skits, etc. to the class
- Increase listening and speaking skills by pairing up with a partner to ask and answer questions

EN 0001 ESL Beginning Reading and Writing

Grades 9, 10, 11, 12

Prerequisite - Level I score on LAS Links or score of NP on LAS Links Placement test.

This course is a basic English course for speakers of other languages who have little or no knowledge of English. Vocabulary and basic structures are learned, simple reading selections are introduced and written exercises are done on a daily basis. All exercises are reinforced by oral practice. This course satisfies the English Requirement. Students in this class will:

- Demonstrate effective oral and written communications
- Recite the English alphabet
- Spell out loud
- Practice pronunciation
- Copy written English
- Identify picture prompts in English
- Read sentences aloud
- Increase vocabulary
- Compose sentences using correct grammar and syntax
- Work alone or in small groups to produce sentences
- Follow spoken and written direction
- Present performance tasks, information, skits, etc. to the class
- Increase listening and speaking skills by pairing up with a partner to ask and answer questions.

APPENDIX

OTHER MATH OPTIONS

(Appropriate for students who are planning to attend community college)

390 Elementary Algebra* (Gateway Community College Math 095)

Grade 12 .5 credit (Fall Semester Course ONLY)

****Prerequisites** - Successful completion of Algebra II and Geometry with a teacher recommendation.

This course is intended to prepare students for further study in college level mathematics. Topics include properties of the real number system, linear equations and inequalities in one variable, graphing linear equations and inequalities in two variables, formulating equations of lines in two variables, an introduction to functions, solving systems of linear equations by graphing, rules of integral exponents and operations on polynomials.

Students may enroll in the Gateway Community College Dual Enrollment Program to earn 3 college credits for the for Gateway Community College course: Math 095-Elementary Algebra (3 credits).

392 Intermediate Algebra* (Gateway Community College Math 137)

Grade 12 .5 credit (Spring Semester Course ONLY)

****Prerequisite** - Completion of Algebra II, Geometry and successful completion of 390 Elementary Algebra - Gateway Community College - MAT 095 (Semester 1)

A review of the fundamental operations of algebra and an extensive study of relations, functions, exponents, radicals, quadratic equations and inequalities, systems of linear equations and inequalities in two variables, and absolute value equations and inequalities. This course is for students who have some knowledge of elementary algebra but require improved skills as a prerequisite to further study in mathematics and science.

Eligible students may enroll in the Gateway Community College Dual Enrollment Program to earn 3 college credits for the for Gateway Community College course: Math 137-Intermediate Algebra (3 credits)

Dual Enrollment Eligibility for 392 Intermediate Algebra: Students can qualify to apply for Dual Enrollment with a qualifying Math score on the SAT/ACT OR by obtaining a minimum of C in 390 Elementary Algebra (GCC MAT 095). Students can additionally qualify by taking the Accuplacer at GCC (free of charge) once they have submitted their application forms.

**** Students previously enrolled in a Gateway Community College Dual Enrollment course will be given preference. Students planning to enroll or have previously completed an advanced course in a Career and Technology Education area are highly encouraged to enrollment.**