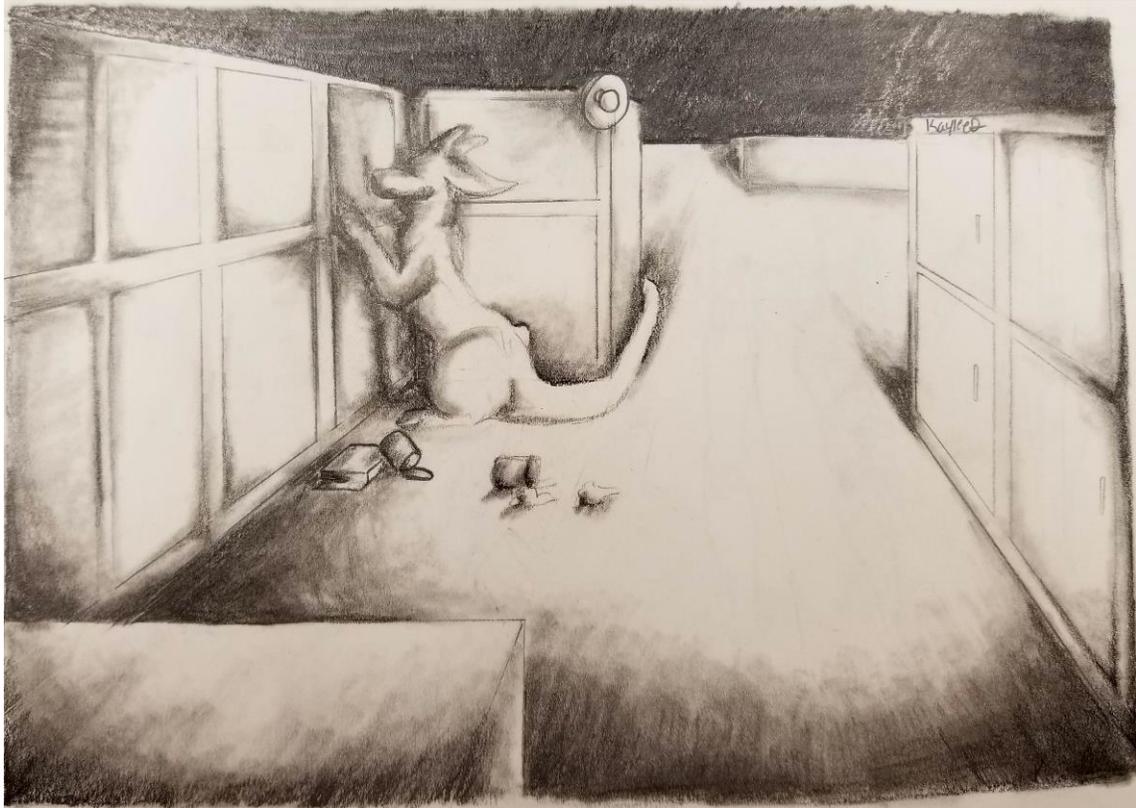


# **WINDHAM HIGH SCHOOL**



## **PROGRAM OF STUDIES**

**2018-2019**

**Windham High School – 355 High Street – Willimantic, CT 06226**

# **Windham Public Schools Leadership**

## **Superintendent of Schools**

Dr. Patricia Garcia

## **Interim Assistant Superintendent of Operations and Administration**

Albert Harris

## **Assistant Superintendent of Teaching, Learning & Leadership**

Dr. Tracy Youngberg

## **Board of Education**

Lynne Ide – Chairperson of the Board

Dr. Murphy Sewall – Vice Chairperson of the Board

Dr. Jaime Gomez – Secretary

Suzanne Tirado

John French

Melissa Lessard

Paul Kalajian

Tracy L. Lambert

Ilda Ray

# **Windham High School Leadership**

## **Interim Principal**

Vanessa Sosa Briaes

## **Assistant Principals**

Pamela Cavanagh

Randall Conway

# **Table of Contents**

<b>Windham Public Schools Leadership</b> .....	2
<b>Windham High School Leadership</b> .....	2
<b>Important Contact Information</b> .....	4
<b>Windham Public Schools Mission Statement</b> .....	5
<b>VISION</b> .....	5
<b>WHS CORE VALUES AND BELIEFS</b> .....	5
<b>WHS EXPECTATIONS FOR LEARNING</b> .....	5
<b>School and College Counseling Department</b> .....	6
<b>Student Success Plans</b> .....	7
<b>Naviance Family Connection</b> .....	8
<b>Graduation Requirements</b> .....	9
<b>NEW State Mandated Graduation Requirements for Class of 2021 and Beyond</b> .....	10
<b>Capstone Project Requirement</b> .....	11
<b>Planning Your Program</b> .....	12
<b>Course Levels</b> .....	12
<b>Earn College Credits at WHS</b> .....	13
<b>Preparing for College</b> .....	14
<b>Windham Early College Opportunity (ECO)</b> .....	15
<b>Windham High School Four-Year Planner</b> .....	16
<b>Course Selection</b> .....	17
<b>Add-Drop Policy</b> .....	17
<b>English</b> .....	18
<b>English for Speakers of Other Languages</b> .....	21
<b>Mathematics</b> .....	23
<b>Social Science</b> .....	26
<b>Science</b> .....	29
<b>Physical and Health Education</b> .....	32
<b>Performing &amp; Visual Arts</b> .....	34
<b>World Language</b> .....	39
<b>Business</b> .....	41
<b>Family &amp; Consumer Science</b> .....	43
<b>Technology Education</b> .....	44

# **Important Contact Information**

Main Office: 860-465-2460

Attendance: 860-465-2468

Athletic Director - Patrick Risley: 860-465-2485

School & College Counseling Office: 860-465-2470

Grade 11 & Grade 12 - Ms. Kristen Negrón: 860-465-2478

Grade 9 & Grade 10 - Mrs. Jaclyn Tracy: 860-465-2474

Social Worker – Ms. Vicki Lanzo: 860-465-2501

Social Worker – Mr. Neal O’Keefe: 860-465-2477

Psychologist—Dr. Tom Campo: 860-465-2460

School Based Health Center and Wellness Center: 860-465-2465

Licensed Marriage and Family Therapist - Dr. Carrie Franzen: 860-465-2510

All teachers and staff can be reached via email.

All contact information can be found on the Windham Public Schools website.

**[www.whs.windhamps.org](http://www.whs.windhamps.org)**

# **Windham Public Schools Mission Statement**

Windham Public Schools provides all students equitable access to a high-quality education and graduates students who are prepared to become productive members of society. The school district and community hold a commitment to support cultural and linguistic diversity, deep student engagement, and the pursuit of lifelong learning.

## **VISION**

Every student, every day, in every classroom will be deeply engaged in their own learning, challenged by high expectations, supported by staff, family, and community, and will graduate with the competence and confidence needed for success.

## **WHS CORE VALUES AND BELIEFS**

Windham High School believes that education prepares all our students to live in the modern global community as responsible, independent and productive citizens and lifelong learners. Students will be empowered to access, analyze, and communicate information effectively, critically, and creatively. We believe that instruction should be student-centered and process-oriented while promoting genuine collaboration. Students should learn through a cross-disciplinary approach that provides meaningful and engaging contexts for learning that honor the diverse experiences of our student body. We believe that the role of our teachers is to work collaboratively to create a safe, supportive environment, promote students' academic self-confidence and provide instruction that meets the individual needs and learning styles of students. We believe that teachers should strive to maximize student achievement using effective teaching strategies and monitoring of student progress using a variety of informal and formal assessments.

## **WHS EXPECTATIONS FOR LEARNING**

In order to communicate effectively, students will read, listen, write and speak with critical understanding and insight for a variety of purposes. (Communication)

Students will apply academic knowledge, problem solving strategies, and critical thinking skills in authentic contexts. (Problem Solving/Critical Thinking)

Students will use appropriate technologies to gather, analyze, evaluate, and productively apply information. (Technology and Research)

Students will employ innovative and flexible thought processes both independently and in collaboration with others to solve problems and achieve goals. (Flexibility and Innovation)

Students will value and demonstrate personal responsibility, character, cultural understanding, respect for diversity, and ethical behavior. (Social/Civic)

# **School and College Counseling Department**

The goal of the Windham High School — School and College Counseling Department (SCC) is to facilitate learning, so that every student can extract the greatest gains from the Windham High School program of studies and to transfer those gains to their post-secondary endeavors.

The specific services offered by the SCC Department include course programming, individual counseling, college and vocational counseling, and the identification and resolution of personal problems - are all part of an integrated comprehensive school counseling program which is proactive in nature. With our society undergoing a drastic transformation that has been both stimulated and magnified by the ever-increasing pace of technological advances, we are faced with issues whose solutions will require flexible and adaptive problem-solving skills. We aim not only to help our students develop the capacity to adapt to change, but to be prepared to plan, order and direct that change.

The comprehensive school counseling program includes sequential activities, which are developmentally appropriate for each grade level. These activities are organized and implemented by certified school counselors in collaboration with teachers, administrators, students, parents and other community members, and are directed at facilitating students' academic, career and personal/social development. The program, designed to systematically assist all students in our school, focuses upon helping students acquire the knowledge and competencies needed to develop problem solving skills, interpersonal effectiveness, decision making, and goal setting and planning skills. We seek to have our students, with the right skills and the appropriate motivation, ready to make the successful transitions essential to the competitive workplace of the 21st century.

The SCC Department strongly encourages parents to be as active in their child's education as possible. Review their homework and ask questions about how school is going. Progress reports are issued periodically, and are mailed home. Report cards are mailed home to parents/guardians at the end of each quarter. Parents and students should use these documents carefully as a springboard for discussions about future goals and aspirations.

If a parent or guardian has any questions about a class, the best source to call for answers is the teacher of the specific class. You can contact a teacher by telephone 860-465-2460 or by email. Email addresses are posted on the WHS web site. Please feel free to call the SCC Department at 860-465-2470 if you need assistance in communicating with a teacher. When issues arise that you feel may influence your student's performance at school, please let us know. We will be discreet and confidential with our dealings with all your child's teachers, especially as they pertain to sensitive issues. If you think we can be of help, please do not hesitate to call. If we are not able to provide direct assistance, we may be able to direct you to those who can.

# **Student Success Plans**

The Student Success Plan (SSP) is an individualized, student-centered plan that students base on their unique interests and strengths. Tasks are assigned to students in each grade level, delivered by school staff, and monitored by school counselors. These plans help students to understand the relevancy of education in achieving postsecondary educational and career goals. Student success is a group effort among all stakeholders of a student's learning experience; counselors, teachers, administrators, parents, and/or guardians. Effective parental involvement forges a partnership between schools and families. Creating that partnership is what drives student achievement, especially regarding academics. The SSP will begin in Grade 6 and continue through high school. It will provide the student support and assistance in setting goals for academic, career, social, and emotional development. The SSP and supporting activities should be electronic and portable, following the student from school to school and district to district, and should include student portfolios, experiences outside the classroom, courses that provide college credit, and academic/personal records. Components of the SSP address:

## **ACADEMIC DEVELOPMENT**

Student interest and student aspirations are the basis for the development of the student's academic program. A planned academic program will lead to the acquisition of the skills, knowledge and attitudes needed to be an effective learner in school and throughout life. The Student Success Plan is designed to ensure that students complete their secondary education with 21st Century Skills, with an emphasis on Science, Technology, Engineering and Math (STEM) skills necessary to compete in the global economy.

## **CAREER DEVELOPMENT**

The student will investigate their own interests and abilities as they relate to the world of work in the dynamic global economy. The customized plan will include varied and flexible educational opportunities, personal connections, and elective coursework, with targeted supports tied to each student's education and/or career goals. The Student Success Plan, which guides students through secondary education on to postsecondary education and/or work, will allow students to make better career choices with the academic foundation to achieve their career and personal goals.

## **SOCIAL AND EMOTIONAL DEVELOPMENT**

The Student Success Plan supports positive social, emotional and physical development, allowing students to more fully engage in the school environment and take the risks necessary for optimal academic performance. Student success may be exemplified through establishing and maintaining positive interpersonal relationships, managing feelings and emotions, engaging in behaviors supportive of positive physical health, demonstrating an appreciation for the needs of others, and embracing opportunities for academic, career, and postsecondary success.

# **Naviance Family Connection**

Windham High School and Windham Middle School have a fantastic resource for students and parents called the the Naviance Family Connection suite of programs.

Family Connection is a comprehensive website that you and your student can use to make plans about colleges, and careers. Family Connection is linked with Naviance, a service that we use in our office to track and analyze data about college and career plans, and provides up-to-date information that's specific to our school. Students begin their Student Success Plans (SSPs) in sixth grade, and their work transfers seamlessly to WHS through the Family Connection program.

Family Connection allows your student to:

**Get involved in the planning and advising process** – Build a resume, complete online surveys, and manage timelines and deadlines for making decisions about colleges and careers

**Research colleges** – Compare GPA, standardized test scores, and other statistics to actual historical data from our school for students who have applied and been admitted in the past

**Research careers** – Research hundreds of careers and career clusters, and take career assessments

**Create plans for the future** – Create goals and to-dos, and complete tasks assigned by the school to better prepare your student for future college and career goals.

Family Connection also lets us share information with you and your student about upcoming meetings and events, local scholarship opportunities, and other resources for college and career information

To visit our school's Family Connection site, use an Internet browser to connect to:

**<http://connection.naviance.com/windhhs>**

When you visit the site for the first time, enter your personal registration code in the New User box and follow the on-screen instructions to create your own account. If you do not know your registration code, contact the counseling office for assistance.

We hope that you will find this resource helpful. If you have questions about Family Connection, please contact us at 860-465-2470.

# **Graduation Requirements**

## **21 CREDIT REQUIREMENTS FOR GRADUATION PER BOARD OF EDUCATION POLICY**

For the graduating classes of 2019-2020

ENGLISH	4.0 CREDITS
MATHEMATICS	3.0 CREDITS
SOCIAL SCIENCE	1.5 CREDITS
UNITED STATES HISTORY	1.0 CREDITS
CIVICS	0.5 CREDITS
SCIENCE	2.0 CREDITS
PHYSICAL EDUCATION	1.0 CREDITS
HEALTH	0.5 CREDITS
ART	2.0 CREDITS
ELECTIVES	4.5 CREDITS
CAPSTONE	1.0 CREDITS

# **NEW State Mandated Graduation Requirements for Class of 2021 and Beyond**

<i>Subject Area</i>	<i>Required Credits</i>
<b><i>Humanities – 9 credits</i></b>	
English	4, including composition
Social Studies	3, including 1 credit in American history and a half credit in civics and American Government
Fine Arts	1
Humanities Elective	1
<b><i>Science, Technology, Engineering, and Mathematics – 8 credits</i></b>	
Mathematics	4, including algebra I, geometry, and either algebra II or probability and statistics
Science	3, including 1 in life science, 1 in physical science
Science, Technology, Engineering, and Math Elective	1
<b><i>Career and Life Skills – 3.5 credits</i></b>	
Physical Education	1
Comprehensive health education	0.5
Career and life skills electives, such as career and technical education, English as a second language, community service, personal finance, public speaking, and nutrition and physical activity	2
<b><i>Other – 4.5 credits</i></b>	
World Languages	2
Electives	1.5
Senior demonstration project or its SBE-approved equivalent (Capstone)	1

# **Capstone Project Requirement**

1. Students must write a proposal for their project
2. Students must complete 30 hours of community service
3. Students must write reflection papers documenting their service experience
4. Students give a presentation in a format to be determined relating to their service experience.

Capstone is an over-arching experience under which a number of opportunities are made available for students to consider as part of their course of study during their high school years and is a culmination of the academic experience at Windham High School. The overall purpose is to give students a chance to engage in an in-depth, hands-on study of a discipline or an area about which the students are highly interested or passionate. The emphasis for the students is to establish a self-challenging goal through the deliberate articulation of a project or course of study.

Capstone is an opportunity for students to explore an area of interest outside the constructs of the traditional educational program, thereby enabling them to participate in a meaningful, non-traditional learning experience, in some cases, beyond Windham's walls. Students will work in the community or on campus during their junior and/or senior year, exploring a field of interest prior to beginning their formal post-secondary plans.

The primary goal of the Capstone Experience is to place students directly in charge of their learning by making possible direct or hands-on experiences. A secondary goal is to provide a venue for students to connect learning, life, and work as they being the transition to their post-high school plans.

The key components of this program are assuming ownership of choice and engaging in new learning experiences fostering a powerful voice in their own education. Students are encouraged to take on ambitious projects, in which they become authors or designers constructing a bridge between their accumulated skills and knowledge learned in the classroom and the world beyond Windham High School. Project topics and format may vary. Students may select from a list of options including: teaching assistant, internship, field study, independent study, community service, and/or Capstone programs with other high schools or nearby colleges.

# **Planning Your Program**

Each year, students plan their program of study with their counselors, teachers and parents. Students begin working on their Student Success Plan in 6th grade and this plan is reviewed and adjusted periodically. The counselor provides information about courses, requirements for graduation, career opportunities, and interprets standardized test scores for the students so that they may come to know their aptitudes and interests, as well as, opportunities available to them. These facets, along with parental guidance and teacher recommendations, help students to make carefully considered choices. Course levels are recommended by the student's current teachers. Parents can use these recommendations to help their student plan the best course of study that allows them to attain their goals. Parents always have the option to request a different course level for their student. A discussion with the school counselor is the best place to begin this process. Students must enroll in the equivalent of 3.5 credits each semester.

## **Course Levels**

**College Prep** — Recommended for students planning to pursue post-secondary education. These courses will prepare students for admission to and success in post-secondary education.

**Honors** — Recommended for highly motivated students planning to pursue post-secondary education who demonstrate superior academic performance. These courses typically require increased independent educational/study requirements compared to College Prep level, and are recognized as being worthy of special consideration in determining value of grades and/or preparation for college-level work. That is to say an "A" in an honors level course carries more weight than an "A" in a College Prep level course. This extra weight is applied when computing a student's grade point average. Colleges also look more favorably at students who have taken a more rigorous course load.

**AP/ECE** — Recommended for students planning to pursue post-secondary education, who are highly motivated, capable of superior work in a subject area, and who want to attain high school and college credit through the Advanced Placement exam process or the UConn Early College Experience program. These courses require increased independent educational/study requirements compared to Honors level and are recognized as being worthy of special consideration in determining value of grades and/or preparation for college-level work. That is to say an "A" in an AP level course carries more weight than an "A" in a College Prep level course. This extra weight is applied when computing a student's grade point average. Colleges also look more favorably at students who have taken a more rigorous course load.

# **Earn College Credits at WHS**

## **UConn's EARLY COLLEGE EXPERIENCE (ECE)**

UConn ECE instructors are high school teachers certified as adjunct professors by UConn faculty. They create a classroom environment fostering independent learning, creativity and critical thinking – all pivotal for success in college. Windham High School offers UConn ECE courses in English Language and Composition, English Literature and Composition, Individual & Family Development, Biology, Environmental Science, US History, Western Traditions before 1500, Modern Western Traditions, and Biotechnology. To support rigorous learning, University of Connecticut library resources are available to all UConn ECE students.

UConn ECE students must successfully complete the course with a grade of C or above in order to receive University credit. Students are charged a \$25 per credit fee. University credits are highly transferable to other colleges and universities. For additional program information visit: [www.ece.uconn.edu](http://www.ece.uconn.edu).

## **ADVANCED PLACEMENT COURSEWORK AND EXAMS**

Advanced Placement (AP) Examinations are college level courses taught in a high school. There are 15 Advanced Placement Courses offered at Windham High School. These courses are: AP English Language and Composition, AP English Literature and Composition, AP Psychology, AP US History, AP Calculus, AP Statistics, AP Environmental Science, AP Biology, AP Chemistry, AP Physics, AP Music Theory, AP Drawing, AP Studio Art 2D, AP Studio Art 3D, and AP Spanish. AP Examinations are offered in May. These examinations are taken to earn college credit. Colleges require certain scores on the exams to award credit. Colleges may award either actual credits or advanced standing for accepted courses. For more information, visit [www.collegeboard.org](http://www.collegeboard.org).

## **ECSU's Pre-College Experience**

The Windham School District has recently entered into a partnership with Eastern Connecticut State University to establish an educator pathways pilot program for minority students in grades eleven and twelve to take college courses in the field of education. For our first year we will be offering three courses: Foundations of US Education, Math for Liberal Arts PLUS, and Foundations of Health Sciences. Students are charged a \$25 per credit fee. University credits are highly transferable to other colleges and universities

## **ECSU's WHIP PROGRAM**

ECSU's WHIP program is offered to juniors and seniors who are in the top 30% of their respective classes. Students complete registration forms and then meet with ECSU's Advising Department prior to being placed in a class. More information is available from the student's School Counselor. For more information, visit <http://www.easternct.edu/advising/WHIP.htm>.

# **Preparing for College**

The following is recommended for a College Preparatory Program: 4 credits in English, 3-4 Credits in Social Science, 3-4 credits in Math (must include Algebra I, Geometry, and Algebra II), 3-4 years in a Science (should include 2 Lab Sciences), and 2-3 credits in the same World Language. It is recommended that students planning on attending a four-year college or university take the most rigorous course load they can manage.

## **PREPARATION FOR COLLEGE ADMISSION**

Four-year programs: Students should take the Preliminary Scholastic Assessment Test (PSAT) each year, in grades 8,9,10 and 11. In grade 11, students take the PSAT/NMSQT. This is the only way for a student to qualify for National Merit Scholarships. Scholastic Assessment Test (SAT) should be taken in the Spring of grade 11 and, if necessary, in the Fall (Oct / Nov.) of senior year. SAT Subject Tests may be required by certain colleges. ACT (American College Testing) is an alternative to the SAT's. Students should see their counselor for information about signing up for the SAT and or ACT's. An SAT Preparation course is available to students in their junior year. Students should begin requesting letters of recommendation from teachers, counselors, and administration in the Spring of their junior year. Students should apply to most four year colleges in October - December of their senior year. Counselors can assist in providing any necessary information such as class rank, transcripts, letters of recommendation, etc.

## **COMMUNITY COLLEGES**

Community Colleges offer one-year and two-year programs in a variety of areas. These programs include one year and two-year career specific programs as well as a transfer program for those students who would like to transfer to a four-year college. Manchester Community College, Quinebaug Valley Community College, and Three Rivers Community College are the closest to Windham High School.

## **CAREER PREPARATION**

Students entering the workforce after graduation should be exploring career options, vocational skills, resume writing and interview skills. Our Cooperative Work Experience course is a great place for students to acquire the skills they will need to be successful in the workforce. Naviance Family Connection is also a great tool for assisting students with this process.

# Windham Early College Opportunity (ECO)

Windham ECO – Incoming freshmen can apply to be part of the Windham ECO Program. WHS is partnering with Quinebaug Valley Community College, the Eastern Advanced Manufacturing Alliance, the Eastern Connecticut Workforce Investment Board, and General Dynamics Electric Boat to offer Associate’s degrees to students. Students can choose one of two degree pathways: Supply Chain Management or Advanced Manufacturing. These programs allow students to begin taking college courses while in high school, and at the same time, earn credit toward high school graduation. The program is designed to take 4-6 years depending on course availability and student drive. Students will also have an industry mentor and opportunities to complete internships. Space is limited, and a lottery will be conducted if necessary. Students enrolled in this program are required to take a Work Place Learning course during their first two years of the program.

## **Work Place Learning I**

Academic Level: College Prep

CREDIT: 1.0

GRADE: 9

This year-long course will teach 9th grade students the skills to succeed in the world of work. They will focus on self-assessment and leadership. Students evaluate themselves as learners and as professionals and use that data to set and track goals for personal and professional growth. They will also focus on teamwork and communication, and students will be able to engage effectively and communicate professionally as productive members of a team. This year long class will encompass quarterly projects to demonstrate mastery of the course objectives. Students will participate in many field trips to industry partners and be assigned a mentor to guide them through the ECO experience at Windham High.

## **Work Place Learning II**

Academic Level: College Prep

CREDIT: 0.5

GRADE: 10

This class will build on the skills from Year One and begin to exhibit these skills in authentic learning projects. This second year will focus on accountability and workplace ethics/professionalism. Students will investigate and apply the professional skills as well as personal qualities of highly successful employees. They will also explore and master critical thinking/problem solving and manufacturing: students research and analyze data to effectively solve authentic problems from the workplace.

**Dual Credit** - Provide academically motivated students with the opportunity to take university courses while still in high school. These challenging courses allow students to preview 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.

# **WINDHAM HIGH SCHOOL FOUR-YEAR PLANNER**

NAME \_\_\_\_\_ CLASS OF \_\_\_\_\_

COURSES	GRADE 9	GRADE 10	GRADE 11	GRADE 12	TOTAL CREDITS	MINIMUM REQUIREMENT
English						4
Science						2-4
Mathematics						3-4
Social Science			U.S. History (1)	Civics (.5)		2.5-3
Physical Ed.	Freshmen PE	Sophomore PE				1
Health	Health					.5
<i>Remaining credit to reach graduation minimum from following courses:</i>						
World Language						2 credits required— <b><u>3 STRONGLY ENCOURAGED,</u></b>
Technology Education						
Family And Consumer Science						
Performing or Visual Art						2
Other Electives						2.5-4.5
<b>Total Credits Required for Graduation</b>						<b>25</b>

# Course Selection

Selection of courses for the following year must be done carefully. Future plans, past performance and teacher recommendations will be taken into consideration as well as personal interest during this process.

1. Students entering grade 9 have limited choices in selecting their courses, as they first need to satisfy course prerequisites. As students' progress to the next grades, their choices increase. Middle School teachers, in consultation with eighth grade counselors and a review of records, will determine the levels of the courses selected.
2. Students in grades 10-12 select their courses after consultation with their parents, teachers and their counselor. The students' current teachers recommend appropriate levels.
3. Some requested courses may not appear on a student's schedule if the course does not run due to low enrollment, is full, or conflicts with another selected course.

Students may request changes to their schedules during the first five (5) days of each semester if the course(s) fits into the schedule without affecting other classes, and if enrollment permits. **Counselors are available over the summer to discuss schedule changes. Please call 860-465-2470 during the summer to make an appointment.**

Students will not be permitted to select courses without satisfying the prerequisite requirements unless approved by administration.

## **Add-Drop Policy**

Requests to change a class or level after the deadline will be made with the approval of the student, the parent, the counselor, and administration.

Students must be scheduled for the equivalent of 7 credits per year, unless a special schedule has been approved by the Supervisor of Guidance.

Students should maintain an average of at least 85% in a subject area before considering moving up a level in the same subject.

Students withdrawing from a course after the deadline will receive a Withdrawal Pass (WP) or Withdraw Fail (WF) placed on their transcript.

# English

<b>Windham High School English Offerings</b>				
<b>Type</b>	<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
<b>Required Courses</b>	English I CP or English I Honors	English II CP or English II Honors	English III CP, English III Honors, ECE English Literature & Composition, or ECE English Language Composition	English IV CP, English IV Honors, ECE English Literature & Composition, or ECE English Language Composition
<b>Electives</b>			*ECE English Literature & Composition *ECE English Language Composition ECE Foundations of US Education Creative Writing Journalism Public Speaking	*ECE English Literature & Composition *ECE English Language Composition ECE Foundations of US Education +Creative Writing +Journalism +Sports Literature +Modern Fiction +Public Speaking

\*ECE English Literature & Composition and ECE Language Composition are run on alternating years

+Students must choose one elective English course senior year if they are taking English IV or English IV Honors

## **English I**

Academic Level: Honors or College Prep

CREDIT: 1.0 GRADE: 9

Through a variety of novels, short stories, poetry, and non-fiction texts students will have the opportunity to explore quality fiction and non-fiction. Within this context students will further develop reading comprehension, group discussion skills and writing techniques.

## **English II**

Academic Level: Honors or College Prep

CREDIT: 1.0 GRADE: 10

PREREQUISITE: 1 credit in English

Through a variety of novels, short stories, poetry, and non-fiction texts students will have the opportunity to explore key works of literature from American and World literature. Within this context students will continue to develop reading comprehension, group discussion skills and writing techniques.

## **English III**

Academic Level: Honors or College Prep

CREDIT: 1.0 GRADE: 11

PREREQUISITE: 2 credits in English

People of many ethnicities have played essential, and often underappreciated, roles in shaping the identity of the United States. Through a variety of novels, short stories, poetry, and non-fiction text students will have the opportunity to explore the formation of American identity. Students will continue to develop their discussion skills and writing techniques.

**English IV**

Academic Level: Honors or College Prep

CREDIT: 1.0 GRADE: 12

PREREQUISITE: 2 credits in English

Students will read a variety of works from colonizing and formerly colonized societies, through these texts students will analyze the effects of clashing cultures to explore the ways in which group and individual identities are shaped in colonial and post-colonial contexts. Students will continue to develop discussion skills and writing techniques.

**ECE English Literature and Composition** Academic Level: ECE

CREDIT: 1.0 GRADE: 11,12

PREREQUISITE: 2 credits in English or permission from instructor

Students will learn to read rich and challenging works of fiction and poetry closely and gain a new understanding of the techniques writers use to create meaning. Students will develop key writing skills so they can effectively communicate complex interpretations of literature to others. By the end of the course, students will read college-level texts with understanding and insight. Students may concurrently enroll in UConn's English 1011, Seminar in Writing Through Literature. Student enrolled in English 1011 will be required to produce a thirty-page writing portfolio containing their formal assignments. English 1011's focus is academic writing through literary reading. Students are expected to enroll in the UCONN ECE course (separate fees may apply).

**Teacher recommendation required****ECE English Language Composition** Academic Level: ECE

CREDIT: 1.0 GRADE: 11,12

PREREQUISITE: 2 credits in English or permission from instructor

Students will learn to read challenging non-fiction texts closely and explore the various types of rhetorical techniques writers use to establish their authority on the important topics they write about. Students will learn to identify, analyze and respond critically to the authors that use them. Throughout the course, students will read college-level texts with understanding and insight. Students may concurrently enroll in UConn's English 1010, Seminar in Academic Writing. Students enrolled in English 1010 will be required to produce a thirty-page writing portfolio containing their formal assignments. English 1010's focus is academic is academic writing through interdisciplinary reading. Students are expected to enroll in the UCONN ECE course (separate fees may apply). **Teacher recommendation required.**

**ECE Foundations of U.S. Education** Academic Level: ECE

CREDIT: 1.0 GRADE: 11,12

An introduction to U.S. education through a study and analysis of the historical, sociological, philosophical, legal and financial factors basic to the governance and practice of American education. Students are expected to enroll in the ECSU ECE course (separate fees may apply).

**Journalism**

Academic Level: College Prep

CREDIT: 0.5 GRADE: 11,12

PREREQUISITE: Successful completion of English I &amp; English II

The fundamentals of journalistic writing and journalistic ethics will be introduced, and students will write and edit a variety of expository and editorial texts that may be submitted to school publications.

**Creative Writing**

Academic Level: College Prep

CREDIT: 0.5 GRADE: 11,12

PREREQUISITE: Successful completion of English I &amp; English II

How do authors create compelling characters, suspenseful plots, and detailed settings? Through a variety of stories, poems and other works, students will learn to identify the techniques of the author's craft and practice using tools of this craft as they write their own works of literary art, with the possibility of individual pieces appearing in Mirrors and Windows, our literary journal.

**Sports Literature**

Academic Level: College Prep

CREDIT: 0.5 GRADE: 12

PREREQUISITE: Successful completion of English I &amp; English II

Students will examine sports fiction and non-fiction, and explore key issues surrounding sports, including: What is the role of sports in our society? How do sports help us understand important issues of our time, including moral issues, questions of justice and fairness, and gender and racial discrimination? Students will write both expository and persuasive pieces covering relevant sport topics.

**Modern Fiction**

Academic Level: College Prep

CREDIT: 0.5 GRADE: 12

PREREQUISITE: Successful completion of English I &amp; English II

In this one semester course, students will read novels and short fiction by a diverse group of contemporary writers. Students will respond to the literature through both discussion and writing and will conduct biographical and analytical research on the authors and their works.

**Public Speaking**

Academic Level: College Prep

CREDIT: 0.5 GRADE: 11,12

PREREQUISITE: Successful completion of English I &amp; English II

Public speaking courses enable students, through practice, to develop communication skills that can be used in a variety of speaking situations (e.g., small and large group discussions, elevator pitches, formal and informal presentations, etc.) Course topics may include (but are not limited to) research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, written and verbal clarity, revision, analysis and critique and development of self-confidence.

# English for Speakers of Other Languages

Windham High School English for Speakers of Other Languages (ESOL) Offerings				
Type	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>Course Offerings</b>	ESOL New Arrivals	ESOL New Arrivals	ESOL New Arrivals	ESOL New Arrivals
	ESOL Foundational New Arrivals	ESOL Foundational New Arrivals	ESOL Foundational New Arrivals	ESOL Foundational New Arrivals
	American Cultural History for New Arrivals	American Cultural History for New Arrivals	ESOL II/III	ESOL II/III
	ESOL II/III	ESOL II/III	ESOL III/IV	ESOL III/IV
	ESOL III/IV	ESOL III/IV	ESOL English II	Writing for College and Career
		ESOL English II	Medical Interpretation	Medical Interpretation
		Medical Interpretation		

**ESOL New Arrivals**                      Academic Level: College Prep                      CREDIT: 1.0                      GRADE: 9,10,11,12

Year 1 - This class will focus on developing basic conversational and academic vocabulary and facilitating acculturation to new school and community. ESOL department recommendation only-based on review of academic history and LAS Links placement test (taken in lieu of grade level ELA in conjunction with Spanish for Native Speakers for a total of 2 class periods). **Scheduled by Counseling Department and ESOL department recommendation.**

**ESOL Foundational New Arrivals** Academic Level: College Prep                      CREDIT: 1.0                      GRADE: 9,10,11,12

An extension of ESOL for new arrivals. This class addresses academic language in content areas in English through language development and content area support (for New Arrivals with limited schooling whose first language is not Spanish). **ESOL department recommendation only- based on review of academic history.**

**ESOL II/III**                                      Academic Level: College Prep                      CREDIT: 1.0                      GRADE: 9,10,11,12

This course is designed for students just below and at the intermediate level of English proficiency and who have scored a level 2 or 3 on the LAS Links reading and writing tests. The course provides English proficiency-level appropriate language development as well as scaffolding for grade level language arts course using the CELP standards to address the grade level content in English Language Arts. **ESOL department recommendation only based on review of academic history.**

**ESOL III/IV**

Academic Level: College Prep

CREDIT: 1.0

GRADE: 9,10,11,12

This course is designed for students just above the intermediate level of English proficiency and who have scored a level 3 or 4 on the LAS Links reading and writing tests. The course provides English proficiency-level appropriate language development as well as scaffolding for grade level language arts course using the CELP standards to address the grade level content in English Language Arts. **ESOL department recommendation only- based on review of academic history.**

**American Cultural History for New Arrivals**

Academic Level: College Prep

CREDIT: 1.0

GRADE: 9,10

A course providing the cultural and historical background knowledge to be able to participate in US History and Civics. For students never educated K-8 in US Schools.) This sheltered English course provides an overview of historical and cultural studies from the familiar to the relevant to the required. This course will provide the new arrival with the answer to the questions: Who am I culturally? From where did I come and how does that influence how I fit into this new community? What do I need to know to participate in American culture and society? **ESOL and world language department recommendation only- based on Spanish and English language proficiency and grade level.**

**ESOL English II**

Academic Level: College Prep

CREDIT: 1.0

GRADE: 10,11

Year 2 Students will focus on developing vocabulary, grammar, reading, and writing in English. By developing these skills, students will be able to begin to use English in both social and academic settings using the CCSS grade level standards and in culturally appropriate ways. (taken in lieu of grade level ELA in conjunction with Spanish Conversation & Culture). **ESOL department recommendation only-based on review of academic history.**

**Medical Interpretation**

Academic Level: College Prep

CREDIT: 0.5

GRADE: 10,11,12

PREREQUISITE: English, ESOL and World language department recommendation only- based on English and Spanish language proficiency. Must be eligible for Spanish IV

Must be 18 at the time of the proficiency exam. Must be able to pass the proficiency exam upon completion for certification.

# Mathematics

<b>Windham High School Mathematics Offerings</b>				
<b>Type</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>Required Courses</b>	Algebra I, Algebra I Honors, Geometry or Geometry Honors	Geometry, Geometry Honors, Intermediate Algebra, Algebra II or Algebra II Honors	Intermediate Algebra, Algebra II, Algebra II Honors	Algebra II, Algebra II Honors, or Statistics
<b>Electives</b>		Common Core Statistics Intermediate Algebra	Common Core Statistics Intermediate Algebra Advanced Algebra & Trigonometry Statistics AP Statistics Pre-Calculus AP Calculus	Intermediate Algebra Advanced Algebra & Trigonometry Statistics AP Statistics Pre-Calculus AP Calculus

## **Algebra I**

Academic Level: Honors or College Prep

CREDIT: 1.0 GRADE: 9

This course is designed to provide a solid foundation for future math courses. It contains the standard topics of first year algebra where students will explore writing, solving and graphing linear equations and inequalities, exponents, polynomials, factoring, and quadratics. Real world applications will be modeled throughout.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

## **Geometry**

Academic Level: Honors or College Prep

CREDIT: 1.0 GRADE: 9,10

PREREQUISITE: Algebra I

Geometry is the study of the measure, construction, and relationships of figures. Topics include points, lines, planes, angles, triangles, parallel lines and transversals. Coordinate geometry is utilized to achieve algebraic solutions of formal proofs. Right triangle properties including the Pythagorean Theorem and trigonometric ratios are introduced. Angle and segment relationships involving circles are studied. Areas of plane figures and volumes of solids are explored and calculated. An understanding of algebra is required.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

## **Intermediate Algebra**

Academic Level: College Prep

CREDIT: 1.0 GRADE: 10,11,12

PREREQUISITE: Algebra I & Geometry

Students will build upon the concepts of linear functions and their real-world applications by reviewing and extending various methods to solve systems of linear equations. Students will explore the concept of quadratic functions and their graphs and engage reasoning while attending to precision in their solutions.

**Algebra II** Academic Level: Honors or College Prep CREDIT: 1.0 GRADE: 9,10,11  
PREREQUISITE: Algebra I & Geometry for CP, Algebra I Honors & Geometry Honors for Honors

**College Prep:** This course is designed to strengthen and extend the concepts in Algebra I and introduce the essential concepts of Algebra II. Topics include equations and inequalities in one variable, graphing linear, exponential and quadratic equations, problem solving, and operations with polynomials. Graphing is emphasized in relation to all parent functions. A graphing calculator is required. Graphing and solving equations are an integral part of the course.

**In Honors,** students will explore and study quadratic functions and higher order polynomials, radical functions, exponential and logarithmic functions, rational functions, trigonometry, and sequences and series.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

**Advanced Algebra & Trigonometry** Academic Level: College Prep CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Geometry & Algebra II

This course is for students who plan to continue their studies in fields related to mathematics such as engineering, business, or science in college. Topics covered include equations and inequalities, functions, graphing, complex numbers, exponents and logarithms, sequences and series and conic sections, as well an in-depth study of the trigonometric functions.

**Pre-Calculus** Academic Level: Honors CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Geometry & Algebra II Honors

Students will review the fundamental concepts of Algebra II as a launching pad for more advanced mathematical topics. Students will explore trigonometric functions and their identities as well as limits and their properties. This will include inverse functions and the laws of sines and cosines.

**AP Calculus** Academic Level: AP CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Pre-calculus or teacher recommendation

This course is for those students who have followed the honors level sequence. Students will use derivatives and integrals to study rate of change, volume, and optimization. Students will look at each of these pieces numerically, graphically, and algebraically to explain their reasoning in writing. Students enrolled in this course are expected to take the AP exam in May (separate fees apply).

**Common Core Statistics** Academic Level: College Prep CREDIT: 0.5 GRADE: 10,11

This one semester course is designed to provide a thorough introduction to the world of statistics. Topics covered include interpreting categorical and quantitative data, making inferences and justifying conclusions, conditional probability and the rules of probability, and using probability to make decisions.

**Statistics** Academic Level: College Prep CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Algebra II

This course is designed to provide a solid foundation to the world of statistics. Topics covered include data analysis and exploration, sampling and randomness, probability, the normal model, hypothesis testing and confidence intervals, regression and chi-square testing. Real world applications are a theme throughout the course.

**AP Statistics**

Academic Level: AP

CREDIT: 1.0 GRADE: 11,12

PREREQUISITE: Algebra II or teacher recommendation

This college-paced course is designed to prepare students for the AP exam in May. Topics covered in depth include data analysis and exploration, regression, sampling and randomness, probability, the normal model, hypothesis testing and confidence intervals, chi-square testing, and inference for regression. Real world applications are a theme throughout the course. Students enrolled in this course are expected to take the AP exam in May (separate fees apply).

**Math for Liberal Arts PLUS**

Academic Level: ECE

CREDIT: 1.0 GRADE: 11,12

This course offers integrated just-in-time Intermediate Algebra support. Mathematics will be applied to solving practical problems in a variety of disciplines, enhanced by algebraic content and technology skills. Mathematical topics include voting theory, financial mathematics, linear programming, identification numbers, and statistics. Additional topics may include fair division. Students are expected to enroll in the ECSU ECE course (separate fees may apply).

# Social Science

<b>Windham High School Social Science Offerings</b>				
<b>Type</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>Required Courses</b>	Modern World History CP or Modern World History Honors	American Studies CP or American Studies Honors	US History CP, US History Honors or ECE US History	Civics or AP American Government
<b>Electives</b>		Contemporary World Issues Latin American Studies	AP Psychology AP American Government ECE Western Traditions Before 1500 ECE Western Traditions After 1500 ECE Foundations of US Education Sociology Legal Systems Economics Honors Contemporary World Issues Latin American Studies	AP Psychology AP American Government ECE Western Traditions Before 1500 ECE Western Traditions After 1500 ECE Foundations of US Education Sociology Legal Systems Economics Honors Contemporary World Issues Latin American Studies

**Modern World History**                      Academic Level: Honors or College Prep                      CREDIT: 1.0                      GRADE: 9, 10

In this course students will examine the history of the past 700 years and its impact on our modern society. Students will explore the impact of the Middle Ages, the Renaissance, the Age of Exploration, Industrialization, Imperialism, and conflict. Students will build skills in critical reading, historical writing, and historical research.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

**American Studies**                      Academic Level: Honors or College Prep                      CREDIT: 1.0                      GRADE: 10

This course examines the history of the United States through primary sources and literature. Students will build skills in close reading, primary source analysis, and historical writing. Students will build the contextual knowledge of U.S. history necessary to critically analyze major works in American literature.

**U.S. History**                      Academic Level: Honors or College Prep                      CREDIT 1.0                      GRADE: 11, 12  
PREREQUISITE: 1.5 credits in Social Science

Students will examine the growth and development of the United States from the end of the Civil War through the 20<sup>th</sup> century. Students will complete a research project, analyze primary and secondary sources, and develop their historical writing skills.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

**ECE U.S. History** Academic Level: ECE CREDIT: 1.0 GRADE: 11, 12  
PREREQUISITE: 1.5 credits in Social Science and recommendation from American Studies or World History instructor.

Students will analyze the development of the United States and the impact of significant historical through themes including American diversity and identity, politics and citizenship, and the legacy of slavery. This course will cover significant events from the Pre-Columbian era through the 21<sup>st</sup> century. Students will build skills in critical reading of informational texts, analysis of primary sources, and historical writing and research. Students are expected to enroll in the UCONN ECE course (separate fees may apply).

**Civics** Academic Level: College Prep CREDIT: .50 GRADE: 12

In this course students will examine the role of citizens in the United States, analyzing the rights, responsibilities, and duties of citizens while building skills in critical reading, writing, and thinking. Students will have the opportunity to exercise these skills in citizenship through debates, simulations, and community connections.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

**AP American Government** Academic Level: AP CREDIT 1.0 GRADE: 11, 12  
PREREQUISITE: 2 credits in Social Science

Students will examine the Constitution, political beliefs and behaviors, the role of political parties, interest groups, and the media, and civil rights in the United States. This course prepares students to take the U.S. Government and Politics AP exam in May (separate fees apply).

**Contemporary World Issues** Academic Level: College Prep CREDIT .50 GRADE: 10, 11, 12

Students will investigate and discuss a wide-range of critical events and world issues including topics such as poverty, conflict, environmental issues, technology, genocide, and globalization. Students will conduct research and communicate their results through various formats including projects, presentations, and historical writing.

**Latin American Studies** Academic Level: Honors or College Prep CREDIT: .50 GRADE: 10, 11, 12

Students will learn about human rights issues in Latin America, about U.S. interventions and involvement, and about current political happenings in the region. Students will examine the link between the histories of the U.S. and Latin America.

**Psychology** Academic Level: College Prep CREDIT 1.0 GRADE: 10, 11, 12

Students will examine the functions of the brain and explore human behavior. Students will analyze the theories of psychology and learn about the contributions of influential psychologists. This course will build skills in critical reading, writing, and speaking. Students will conduct a research project and complete performance-based assessments.

**AP Psychology** Academic Level: AP CREDIT 1.0 GRADE: 11,12  
PREREQUISITE: 2 credits in Social Science

Students will learn about the systematic and scientific study of behavior and the mental processes of humans. Students will utilize psychological facts, principles, and phenomena to build skills in critical reading, writing, and discussion. This course examines the ethics and methods psychologists use in their discipline. Students enrolled in this course are expected to take the AP exam in May (separate fees apply).

**Sociology** Academic Level: College Prep CREDIT: .50 GRADE: 11, 12

In this course students will investigate the science of society, social institutions, and social relationships. Students will research, debate, and write about the interactions between society and individuals.

**Legal Systems** Academic Level: College Prep CREDIT: .50 GRADE: 11, 12

In this course, students will examine the history of the civil and criminal court systems, discuss significant Supreme Court decisions, and discover some of the controversies related to our laws. Students will research, debate, and write about the impact of laws on Americans.

**Economics** Academic Level: Honors CREDIT: .50 GRADE: 11, 12

Students will analyze the field of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. This course also covers topics including principles of macroeconomics, international economics, and comparative economics. This course includes formal theoretical contexts and applied contexts. Students will utilize skills in historical research and writing.

**ECE Western Traditions Before 1500** Academic Level: ECE CREDIT: .50 GRADE: 11, 12  
PREREQUISITE: 2 credits in Social Science

Students will analyze the characteristics of early civilizations through the lens of the Ancient world and then evaluate the role of monotheism in the development of the west. Students will study political, cultural and intellectual movements to draw conclusions about the traditions of the west leading up to the 16<sup>th</sup> century. This course builds skills in critical reading, discussion, and historical research. Students are expected to enroll in the UCONN ECE course (separate fees may apply).

**ECE Modern Western Traditions** Academic Level: ECE CREDIT: .50 GRADE: 11, 12  
PREREQUISITE: 2 credits in Social Science

Students will examine the development of modern Europe from the 16<sup>th</sup> century to the 21<sup>st</sup> century. Students will study political, cultural, and intellectual movements to draw conclusions about the traditions of western Europe. This course builds skills in critical reading, discussion, and historical research. Students are expected to enroll in the UCONN ECE course (separate fees may apply).

**ECE Foundations of U.S. Education** Academic Level: ECE CREDIT: 1.0 GRADE: 11,12

An introduction to U.S. education through a study and analysis of the historical, sociological, philosophical, legal and financial factors basic to the governance and practice of American education. Students are expected to enroll in the ECSU ECE course (separate fees may apply).

# Science

<b>Windham High School Science Education Offerings</b>				
<b>Type</b>	<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
<b>Typical Sequence</b>	Integrated Science or Biology Honors	Biology, Biology Honors, Chemistry or Chemistry Honors	Chemistry, Chemistry Honors or AP Chemistry Physics, Physics Honors or AP Physics	Chemistry, Chemistry Honors or AP Chemistry Physics, Physics Honors or AP Physics
<b>Offerings</b>		Chemistry Chemistry Honors Marine Biology Honors Geology	ECE Biology ECE Biotechnology Chemistry Chemistry Honors AP Chemistry Physics Physics Honors AP Physics Marine Biology Honors Geology Environmental Science Pop & Effect Environmental Science Ecology ECE Environmental Science Anatomy & Physiology	ECE Biology ECE Biotechnology Chemistry Chemistry Honors AP Chemistry Physics Physics Honors AP Physics Marine Biology Honors Geology Environmental Science Pop & Effect Environmental Science Ecology ECE Environmental Science Anatomy & Physiology

## **Integrated Science**

Academic Level: College Prep

CREDIT: 1.0

GRADE: 9

Do you know that all scientists use the same method to conduct different experiments? Students will use technology and scientific tools to conduct laboratory investigations on matter, atoms, energy, electricity, magnetism, polymers, earth and space, and environmental issues and learn to effectively communicate findings.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

## **Biology**

Academic Level: Honors or College Prep

CREDIT: 1.0

GRADE: 9,10

What are the characteristics of life? Students will use technology and scientific tools to conduct laboratory experiments that investigate topics such as enzymes, and yeast populations. Students will explore cells, microorganisms, principles of genetics, evolution, biodiversity, and population dynamics. Through these activities, students will develop an understanding of life and life processes. Teacher recommendation required for Honors level.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

**Chemistry** Academic Level: Honors or College Prep CREDIT: 1.0 GRADE: 10,11  
PREREQUISITE: Algebra I

Do you know why different substances react to form new compounds? In this course, Students will use technology and scientific tools to observe and analyze chemical reactions. Students will learn the structure of the atom, how to use the Periodic Table of Elements, why atoms form bonds, and how substances react with one another. For Honors level, students must have a teacher recommendation and be taking Algebra II concurrently.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

**Physics** Academic Level: Honors or College Prep CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Algebra I

How physicists use mathematics to make sense of forces and motion? Students will use technology and scientific tools to investigate the relationship between matter and energy. Students will explore motion, magnetic and electric phenomena and waves. For Honors level, students must have a teacher recommendation and have passed Geometry and Algebra II.

### **Environmental Science Population and Environmental Effects Interactions**

Academic Level: College Prep CREDIT: 0.5 GRADE: 11,12

Students will learn how human interactions affect the Earth. Some of the topics covered in this course include; human population, agriculture, water and air pollution, resources/energy, land use, sustainability and global changes. We will concentrate heavily on the issue of our population's exponential increase and the effects that this has on our planet.

**Environmental Science-Ecology** Academic Level: College Prep CREDIT: 0.5 GRADE: 11,12

This course is designed to improve your knowledge of the processes that occur on our planet. Some of the topics we will cover in this course include; biogeochemical cycles, ecosystem interactions, biomes, biodiversity, and global changes.

**Geology** Academic Level: College Prep CREDIT: 0.5 GRADE: 10,11,12

Are you aware that Earth is constantly changing? Students will learn about the history and formation of the Earth as well as, interior and surface processes that shape our planet, such as, earthquakes, volcanic activity, and weathering and landslides. The class will also cover topics on fossils and the types of life throughout time and the significance of geological features.

**Marine Biology** Academic Level: Honors CREDIT: 0.5 GRADE: 10,11,12

What types of marine species live right in Long Island Sound as well as the world's ocean? Emphasis is placed on the identification, habitat, and commercial value of local marine species including plankton, marine algae, invertebrates, and vertebrates. Topics of marine food chains and the interdependence of marine organisms are addressed. Man's impact on the marine environment and marine species is also examined.

**Anatomy & Physiology** Academic Level: College Prep CREDIT: 0.5 GRADE: 11,12

How does the human body work? Students will use technology and scientific tools to investigate cells and tissues and explore body systems (skeletal, muscular, nervous, digestive, circulatory, respiratory, and reproductive).

**AP Chemistry** Academic Level: AP CREDIT: 1.0 GRADE: 11,12  
PREREQUISITES: Chemistry & Algebra II

Students will learn about the fundamental concepts of chemistry, chemical bonding, thermochemistry, electrochemistry, reaction kinetics, chemical equilibrium, intermolecular forces, and how to use chemical calculations to solve authentic problems. Algebra II can be taken concurrently. Students enrolled in this course are expected to take the AP exam in May (separate fees apply). **Teacher recommendation is required.**

**AP Physics** Academic Level: AP CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Successful completion of Geometry, Algebra II and Physics (C or higher in each course)

AP Physics is a full year course that is the equivalent of a first semester introductory college course in algebra-based physics. The aim of this course is to develop a deep understanding of fundamental principles of general physics. During the course students will learn about classical mechanics and modern physics by applying these principles to complex physical situations. Students enrolled in this course are expected to take the AP exam in May (separate fees apply).

**Teacher recommendation is required.**

**ECE Biotechnology** Academic Level: ECE CREDIT: 0.5 GRADE: 11,12  
PREREQUISITE: Biology

ECE Biotechnology is a full year course that is the equivalent of a semester course in college. Students will explore the fundamental principles of biotechnology, career pathways and biotech business applications. Students will become familiar with the ancient and modern applications of biotechnology that have and will benefit society today and in the future. Laboratory activities will reinforce some of the concepts and principles presented in the course. Students are expected to enroll in the UCONN ECE course (separate fees may apply). **Teacher recommendation is required**

**ECE Environmental Science** Academic Level: ECE CREDIT: 1.0 GRADE: 11,12

ECE Environmental Science is a full year course that is equivalent to a one semester introductory course in college. Students will explore and investigate the interrelationships of the natural world, identify and analyze various environmental problems, and examine alternative solutions for resolving and/or preventing them. Students are expected to enroll in the UCONN ECE course (separate fees may apply). **Teacher recommendation is required.**

**ECE Biology** Academic Level: ECE CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Biology

ECE Biology is a full year course that is equivalent to a full year introductory Biology course in college. Students will investigate molecules, cells and various processes, genetics and evolution of organisms, botany and animal behavior. Multiple laboratory experiments will be conducted, so that data can be collected and analyzed in order to understand life and life processes. The dissection of a fetal pig is mandatory. Students are expected to enroll in the UCONN ECE course (separate fees may apply). **Teacher recommendation is required.**

# Physical and Health Education

Windham High School Physical & Health Education Offerings				
Type	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>Required Courses</b>	Health	Physical Education 10	Lifetime Sports, Fitness for Life, or Team Sports	Lifetime Sports, Fitness for Life, or Team Sports
<b>Electives</b>			CPR/AED/First Aid & Lifeguarding Lifetime Sports Fitness for Life Team Sports Weight Training and Conditioning Lifeguard Aid	CPR/AED/First Aid & Lifeguarding Lifetime Sports Fitness for Life Team Sports Weight Training and Conditioning Lifeguard Aid

## Health

Academic Level: College Prep

CREDIT: 0.5 GRADE: 9

Students will explore areas of health including nutrition, substance use and abuse, interpersonal relationships, contraceptives, STDs and HIV/AIDS, teen pregnancy, and safety, sleep deprivation, and all other factors that may contribute to a healthy life.

**Dual Language:** A section of this course will be taught in both English and Spanish for New Arrivals and students who were in the Compañeros program.

## Physical Education grade 10

Academic Level: College Prep

CREDIT: 0.5 GRADE: 10

Students will have the opportunity to develop basic motor skills and patterns to perform a variety of activities. Students will incorporate fitness and wellness concepts to achieve and maintain a health-enhancing level of fitness. It is mandatory for all students in GRADE 10 to participate in the CT Physical Fitness Assessment. The program is designed to provide each student with an understanding of the importance of physical fitness in their student and adult lives and incorporates an awareness of the social, physical, and intellectual aspects of physical education

## Lifetime Fitness

Academic Level: College Prep

CREDIT: 0.5 GRADE: 11,12

PREREQUISITE: Student must have enrolled in Physical Education 10

Students will learn the skills and rules to participate in many sports activities throughout your lifespan. Sports offered may include, but is not limited to: racket sports, water sports, and aerobic activity. 0.5 CREDIT counts towards graduation requirement

**Body Transformation / Mindfulness & Yoga** Academic Level: College Prep CREDIT: 0.5 GRADE: 11, 12  
PREREQUISITE: Student must have enrolled in Physical Education 10

Students will have the opportunity to develop a personalized fitness plan and work on core fitness activities in order to maintain their fitness. 0.5 CREDIT counts towards graduation requirement.

**Team Sports** Academic Level: College Prep CREDIT: 0.5 GRADE: 11,12  
PREREQUISITE: Student must have enrolled in Physical Education 10

Students will learn the proper techniques and rules to participate in a variety of sport activities efficiently and effectively. Team work will be an emphasis in this course. Sports offered may include, but is not limited to: volleyball, basketball, and soccer. 0.5 CREDIT counts towards graduation requirement.

**Weight Training & Conditioning** Academic Level: College Prep CREDIT: 0.5 GRADE: 11,12

Students will develop an understanding of the importance of physical conditioning and gain sound knowledge and skills in using free weights and universal stations. This course does not count towards Physical Education graduation requirement and will count as an elective only.

**CPR/AED/First Aid & Lifeguarding** Academic Level: College Prep CREDIT: 0.5 GRADE: 11,12

Students selecting this course must have taken and passed Health Education. Students will learn the skills required to perform CPR, use an AED machine, and know basic first aid skills as well as be certified through Student CPR free of charge. This course does not count towards the Health Education graduation requirement. Students selecting this course must have advanced swimming skills. Students will learn the skills to become a certified lifeguard and have the opportunity to obtain their lifeguard certification at a nominal fee. This course does not count towards Physical Education graduation requirement and will count as an elective only.

**Lifeguard Aid** Academic Level: College Prep CREDIT: 0.5 GRADE: 11,12  
PREREQUISITE: Must be able to produce life guard certification

Students must be lifeguard certified and will have the responsibility of being the lifeguard on duty.

**Foundations of Health Science** Academic Level: ECE CREDIT: 1.0 GRADE: 11,12

This is an introductory course to a variety of health topics. It will provide an overview of issues central to health, including health care systems, regulations and policies, and ethics in healthcare, create awareness of the career possibilities, educational programs and licensing requirements, and expose students to health professionals. As a foundation for future courses in health sciences, this course will introduce students to the scientific method and develop skills in analysis, evaluation, and critical thinking. It will focus throughout on the importance of communication, team-building, and professionalism.

**Physical Education Senior Leaders** Academic Level: CP CREDIT: 0.5 GRADE: 12

Seniors are graduating and have fulfilled their PE required classes may apply for the position. Juniors who are interested must apply for selection before end of this year for next year. Students selected will display positive role model behavior and will count towards REQUIRED Graduating CAPSTONE project.

# Performing & Visual Arts

Windham High School Performing & Visual Arts Offerings				
Type	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>Offerings</b>	Music Technology	Music Technology	Music Technology	Music Technology
	Guitar	Guitar	Guitar	Guitar
	Piano	Piano	Piano	Piano
	Concert Choir	Concert Choir	Concert Choir	Concert Choir
	Concert Band	Concert Band	Concert Band	Concert Band
	String Orchestra	String Orchestra	String Orchestra	String Orchestra
	Theater Arts	Theater Arts	Theater Arts	Theater Arts
	Drawing & Painting I	Drawing & Painting I	Drawing II	Drawing II
	Clay I	Drawing II	Painting II – Acrylic & Oil	Painting II – Acrylic & Oil
	Jewelry I	Painting II – Acrylic & Oil	Painting II – Watercolors	Painting II – Watercolors
	Sculpture I	Painting II - Watercolors	Clay II	Clay II
		Clay I	Jewelry I	Jewelry II
		Clay II	Jewelry II	Sculpture II
		Jewelry I	Sculpture II	AP Music Theory
		Jewelry II	AP Music Theory	AP Drawing
		Sculpture I	AP Drawing	AP Art History
		Sculpture II	AP Art History	AP Studio Art 2D
		AP Studio Art 2D	AP Studio Art 3D	
		AP Studio Art 3D		

**Music Technology**                      Academic Level: College Prep                      CREDIT: 0.5                      GRADE: 9,10,11,12

Students will discover and explore introductory concepts used in music sequencing, DJ'ing, beat making, drum machines, microphones, notation and recording. No prior musical experience is needed. Students will create music using music editing software (Mixcraft 6 and Garageband), synthesizers and drum machines. Students will study the following genres of music: Latin, blues, jazz, musical theatre, gospel, folk, R&B, rock, hip hop, and many others.

**Guitar**                                      Academic Level: College Prep                      CREDIT: 0.5                      GRADE: 9,10,11,12

This is an elective course for beginning guitarists with little or no experience on the instrument. Students will learn open chords, power chords, movable chords, single note melody playing, accompaniment techniques, and a variety of playing techniques and styles, including both pick-style and finger-style approaches to the guitar. Students will learn to read notes, rhythms and chords. Students will be provided with a guitar and a method book for this course.

**Piano**                                      Academic Level: College Prep                      CREDIT: 0.5                      GRADE: 9,10,11,12

This course is designed to help beginning students develop their musical skills. Students will be taught music reading skills, musicality, music terminology, music history and music theory. Students will also be required to prepare short solos on the keyboard.

**Concert Choir**                      Academic Level: College Prep                      CREDIT: 1.0                      GRADE: 9,10,11,12

This is a year-long course offered to current and aspiring singers in grades 9-12, regardless of their previous choral experience. The core curriculum explores basic vocal technique, music theory, and history as it relates to blues, jazz, musical theatre, gospel, folk, R&B, rock, hip hop, and other genres. This exploration takes place on a solo, small group, and large group performance level, as well as lecture and extensive listening. Students are expected to participate in one evening concert each semester as a major part of their grade as well as a few other performance opportunities that arise throughout the year. **Concert participation is required**

**Concert Band**                      Academic Level: College Prep                      CREDIT: 1.0                      GRADE: 9,10,11,12

PREREQUISITE: One year of experience

The band class at Windham High School is a unique community experience in that each student is given the opportunity to participate in three distinct musical arenas within one class. The Concert Band focuses on learning and performing symphonic works from a variety of time periods and styles. Students will be given the chance to perform at competitions, festival performances, as well as school concerts. The Pep Band gives the students the opportunity to explore unique arrangements of pop/rock classics. This band is committed to supporting the Windham High School football & basketball teams and enhancing the experience of our school events. The Marching Band will play at various community events in Connecticut, and will compete in several band competitions in the USBANDS circuit each year. **Concert participation is required**

**String Orchestra**                      Academic Level: College Prep                      CREDIT: 1.0                      GRADE: 9,10,11,12

PREREQUISITE: One year of experience

This course is offered as a continuation for students with previous orchestral experience. Educational emphasis is placed on the advancement of instrumental technique, further development of music reading and comprehension skills, independent musicianship, style, and a deeper understanding of small group ensemble music, and orchestral literature. Literature will contain both classical and popular music. Students will perform both in small group ensemble projects and as a large group. The orchestra will perform outside of class on a regular basis. Students are expected to participate in one evening concert each semester as a major part of their grade as well as a few other performance opportunities that arise throughout the year. **Concert participation is required**

**AP Music Theory**                      Academic Level: AP                      CREDIT: 1.0      GRADE: 11,12  
PREREQUISITE: One year of Performing Arts experience

Students in AP Music Theory should have at least one year of high school music and must be prepared to study the language of music. AP Music Theory integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and to some extent history and style. Musicianship skills such as dictation and other listening skills, sight-singing, and keyboard harmony are considered an important part of the theory course. The student's ability to read and write musical notation is fundamental to this course. It is strongly recommended that the student will have acquired at least basic performance skills in voice or on an instrument. Students enrolled in AP music theory are expected to take the AP music theory exam in May.

**Theatre Arts**                      Academic Level: College Prep                      CREDIT: 0.5      GRADE: 9,10,11,12

This class allows students with an interest in theater to gain knowledge on all aspects of drama. Students will analyze selected scripts from as early as the Ancient Greeks to the present day; while learning the techniques needed to develop strong characters and act out scenes. In addition, students will also perform staged readings, study improvisational techniques, set design, and theatrical production on and off the stage. As a final project, students will be asked to create a short piece encapsulating all the skills acquired throughout the semester.

**Drawing & Painting I**                      Academic Level: College Prep                      CREDIT: 0.5      GRADE: 9,10

Students will explore and create art in dry and wet media, with a focus on drawing and painting. Projects will be structured for the application of the fundamental principles of art. Students will also study major artists, movements and styles and begin the initial process of building a portfolio.

**Clay I**                      Academic Level: College Prep                      CREDIT: 0.5      GRADE: 9,10

Students will learn the basic skills needed to work in clay. Clay will cover form and idea along with the necessary methods and techniques to produce successful clay work. Students will be given the opportunity to create original ceramic designs using coil, slab, pinch, and wheel methods of construction and the application of glazing materials. Students will be involved in creating clay designs of simplicity, beauty, and form, in both functional and decorative applications.

**Jewelry I**                      Academic Level: College Prep                      CREDIT: 0.5      GRADE: 9,10,11

Students will explore several jewelry techniques and processes including sawing, filing, and soldering of brass, nickel, copper, and sterling silver. Students can create their own designs for rings, pendants, earrings, bracelets, and more from wire and sheet metal. Gemstone setting will also be covered.

**Sculpture I**                      Academic Level: College Prep                      CREDIT: 0.5      GRADE: 9,10

Students will create two and three-dimensional designs using paper and cardboard, using the elements of good design. The opportunity to work with plaster, polymer clay, wood and metal will also be available.

**Drawing II**                      Academic Level: College Prep                      CREDIT: 0.5      GRADE: 10,11,12  
PREREQUISITE: Drawing & Painting I

Students will explore use of line, texture, value, transparency, perspective, form and composition. Work will be from nature, the figure, still life, and imaginative sources working with pen and ink, pencil, pastel, charcoal and colored pencil as well as building vocabulary, technique, and individual portfolios.

**Painting II – Acrylic and Oil**      Academic Level: College Prep      CREDIT: 0.5      GRADE: 10,11,12  
PREREQUISITE: Drawing & Painting I

This course will focus on the media of acrylic and oil in painting. Students will look at major artists, subject matter and styles; eventually developing their own painting style. Students should expect to leave the class with 7-10 finished paintings to add to their portfolio.

**Painting II – Watercolors**      Academic Level: College Prep      CREDIT: 0.5      GRADE: 10,11,12  
PREREQUISITE: Drawing & Painting I

Drawing, color theory, and composition are fundamental tools used in successful painting. Students will gain a more confident manner in harmonizing these elements through various lessons using watercolor, gouache, and tempera techniques incorporated with traditional and contemporary themes and methods in painting. Students should expect to leave the class with 7-10 finished paintings to add to their portfolio.

**Clay II**      Academic Level: College Prep      CREDIT: 0.5      GRADE: 10,11,12  
PREREQUISITE: Clay I

Students will expand skills with the potter's wheel and continue hand-building techniques with an emphasis on idea development and higher standards of craftsmanship. A focus on independent idea development and proficiency in technical skills will be encouraged.

**Jewelry II**      Academic Level: College Prep      CREDIT: 0.5      GRADE: 10,11,12  
PREREQUISITE: Jewelry I

Students will design and create original jewelry that looks professional. In this course, students will design and create with enameling, stone setting with bezels and prongs, simple casting, and other jewelry making processes. Students will make rings, bracelets, chains, belt buckles, hair adornments, etc. from sterling silver, brass, nickel, copper, gemstones, and found objects. Lapidary, the art of gemstone cutting, will also be covered.

**Sculpture II**      Academic Level: College Prep      CREDIT: 0.5      GRADE: 10,11,12  
PREREQUISITE: Sculpture I

Advanced skills in sculptural methods of construction will be covered in this course. Students typically work with several media, such as clay, ceramics, wood, metal, stone, textiles, but some courses may focus on one medium. Personal expression will be emphasized.

**AP Drawing**      Academic Level: AP      CREDIT: 1.0      GRADE: 11,12  
PREREQUISITE: Drawing II or permission from instructor

What makes a drawing or painting grab someone's attention? This course is designed for students with serious interest in art. This course will enhance skills in drawing through observation and application in rigorous assignments. Students must take both Fall and Spring semesters to prepare a portfolio. Students will be required to submit a portfolio to the College Board.

**AP Art History**      Academic Level: AP      CREDIT: 1.0      GRADE: 11,12  
PREREQUISITE: Drawing II and Painting II

How does life and culture influence Art? Students will have the opportunity to critically examine architecture, sculpture, painting and other art forms, at a college level. Art will be looked at within historical and cultural contexts, covering from prehistoric to modern times. Students will learn to identify styles, techniques and cultures as well as how to discuss your own interpretations about art.

**AP Studio Art 2D**

Academic Level: AP

CREDIT: 1.0

GRADE: 11,12

PREREQUISITE: Drawing II or Painting II or permission from instructor

What makes a drawing or painting grab someone's attention? Students will develop in drawing through observation and application in rigorous assignments. Students must take both Fall and Spring semesters to prepare a portfolio. Students will be required to submit a portfolio to the College Board.

**AP Studio Art 3D**

Academic Level: AP

CREDIT: 1.0

GRADE: 11,12

PREREQUISITE: Drawing II or Clay II or Sculpture II or Jewelry II or permission of instructor

What will you create? Students will be developing a three-dimensional portfolio of individualized artwork for college preparation. Students will develop an aesthetic understanding through studio projects that encourage creative and imaginative problem solving while refining art skills. A sketchbook of drawings will be created. Students must take both Fall and Spring semesters to prepare a portfolio. Students are required to submit a portfolio to the College Board.



**Spanish Conversation & Culture** Academic Level: Honors or College Prep CREDIT: 1.0 GRADE: 9,10,11,12  
PREREQUISITE: Previous enrollment in Compañeros program, or Spanish for Native Speakers and a score of Intermediate or above on the AAPPL assessment

For students who have completed 2 Spanish for Native speakers, or come from the Compañeros program and plan to continue on the Spanish track for college credits. **World language department recommendation only- based on Spanish language profile and proficiency.**

**French II** Academic Level: College Prep CREDIT: 1.0 GRADE: 10,11,12  
PREREQUISITE: French I

Students will further their ability to understand and express themselves in French for both social and academic purposes.

**Spanish III** Academic Level: Honors or College Prep: CREDIT: 1.0 GRADE: 10,11,12  
PREREQUISITE: Spanish II

Follows the successful completion of Spanish II. Students' continued study of Spanish will result in being able to understand, speak, and write in Spanish with increasing ease, accuracy, and authenticity.

**French III** Academic Level: College Prep CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: French II

Follows that successful completion of French II. Students' continued study of French will result in being able to understand, speak, and write in French with increasing ease, accuracy and authenticity.

**Spanish IV** Academic Level: Honors CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Spanish III or Spanish Conversation & Culture

Students will develop their awareness for the language and Spanish-speaking cultures by discussing, comparing, and interpreting artifacts, practices, and perspectives that exist in various Spanish-speaking regions of the world. Native speakers of Spanish are encouraged to take this course. This course requires Spanish proficiency testing to participate. Students need to be intermediate high or advanced on the AAPPL test or Proficient on the LAS Links in Spanish in order to enroll in the class. World language department recommendation only- based on Spanish language profile and proficiency.

**AP Spanish Language** Academic Level: AP CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Spanish IV Honors, Spanish Conversation & Culture or AAPPL proficiency

Students will develop their awareness for the language and Spanish-speaking cultures by discussing, comparing, and interpreting artifacts, practices, and perspectives that exist in various Spanish-speaking regions of the world. Native speakers of Spanish are encouraged to take this course. Students enrolled in this course are expected to take the AP Exam in May (separate fees apply).

**AP Spanish Literature** Academic Level: AP CREDIT: 1.0 GRADE: 11,12  
PREREQUISITE: Spanish IV Honors, Spanish Conversation & Culture or AAPPL proficiency

This course emphasizes reading, understanding, and reacting in writing to literature/texts written in Spanish. Native Speakers of Spanish are encouraged to enroll. Students enrolled in this course are expected to take the AP Exam in May (separate fees apply)

# Business

<b>Windham High School Business Offerings</b>				
<b>Type</b>	<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
<b>Course Offerings</b>		Introduction to Business	Marketing I Marketing II Introduction to Business Financial Literacy Cooperative Work Experience	Marketing I Marketing II Introduction to Business Financial Literacy Cooperative Work Experience

**Introduction to Business**                      Academic Level: College Prep                      CREDIT: 1.0                      GRADE: 11,12

A basic course in business, designed to provide an overall view of the ownership patterns, structure, and essential operations of business organizations.

**Marketing I**                                      Academic Level: College Prep                      CREDIT: 1.0                      GRADE: 11,12

This introductory course allows students the opportunity to explore the world of marketing. This course is designed to provide a broad based foundation for the field of marketing and the marketing mix. Students will have opportunities to work creatively with numerous forms of technology while collaborating with others. Areas of emphasis include product promotion, product development, pricing, selling, and consumer behavior.

**Marketing II**                                      Academic Level: College Prep                      CREDIT: 1.0                      GRADE: 12

PREREQUISITE: Marketing I

This course is a continuation of Marketing I and is designed to allow students to further enhance their marketing abilities. The first half of the course will focus upon learning about entrepreneurial concepts while developing academic skills, creative thinking, and problem solving. Students will have opportunities to explore areas of marketing interests including: Sports & Entertainment marketing, Fashion marketing, International marketing, Hospitality & Tourism marketing, Digital marketing, and Retail Merchandising. This course features blended learning utilizing a teacher-facilitated, student-centered environment that leverages various forms of technology to strengthen classroom learning.

**Financial Literacy**                              Academic Level: College Prep                      CREDIT: 0.5                      GRADE: 11,12

PREREQUISITE: Algebra I

This class provides students with an understanding of the concepts and principals involved in managing one's personal finances. Topics may include savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning. Students will be required to choose a career path and develop a mock life to better understand all issues pertaining to financial management.

**Cooperative Work Education** Academic Level: College Prep

CREDIT: 1.0-2.0

GRADE: 11,12

The Cooperative Work Experience Program (CO-OP) provides an important link between the classroom and the workplace for students age 16 and older. It enhances and adds relevance to classroom learning. Students often find learning on an abstract level challenging and learn more readily when they see the theory in operation and have an opportunity to practice what they are learning. The CO-OP is essentially a partnership that links school, community, and business/industry to provide a real-world environment in which students are given the opportunity to apply, and thereby enhance, the knowledge and skills obtained in the classroom. Students who obtain an internship through this class can earn a second credit.



# Technology Education

<b>Windham High School Technology Education Offerings</b>				
<b>Type</b>	<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
<b>Course Offerings</b>	Intro to Computer Science	Intro to Computer Science	Intro to Computer Science	Intro to Computer Science
	Robotics	Robotics	Robotics	Robotics
		Intro to Software Applications	Intro to Software Applications	Intro to Software Applications
		Intro to CAD	Intro to CAD	Intro to CAD
		Animation	Animation	Animation
		Audio/Visual Production	Audio/Visual Production	Audio/Visual Production

**Intro to Computer Science**      Academic Level: CP      CREDIT: 1.0      GRADE: 9,10,11,12

An engaging course that explores a variety of basic computational thinking and programming concepts through a project-based learning environment. Every unit of content culminates in a comprehensive project and roughly 75% of student time is spent building projects and practicing the skills they are learning.

**Robotics**      Academic Level: CP      CREDIT: 0.5      GRADE: 9,10,11,12

Have you ever wondered how robots are designed and built - and how robots “think”? In this predominantly hands-on course you will design, create and program a variety of vehicular-based and industrial robots. Topics covered in Robotics include: sensor analysis and application, mechanics, electrical control circuits, C+ programming, design process/constraints, alternative energy (fuel cells and photovoltaic arrays) and pneumatics.

**Intro to Software Applications**      Academic Level: CP      CREDIT: 0.5      GRADE: 10,11,12

In this course, students will acquire the knowledge of and experience in the proper and efficient use of software packages. These courses explore a wide range of applications, including but not limited to word-processing, spreadsheet, graphics, and database programs.

**Intro to CAD**      Academic Level: CP      CREDIT: 0.5      GRADE: 10,11,12

Students will explore the evolution of professional drafting from hand-draftings to computer aided drafting (CAD). Students will utilize AutoCAD to create accurate renditions of objects of progressive complexity.

**Audio/Visual Production**      Academic Level: CP      CREDIT: 0.5      GRADE: 10,11,12

A/V production prepares students with the skills necessary for television, video, film and radio production. Students create storyboards and write scripts to create their own short movie productions using state of the art software. Camera operation, production techniques, lighting, audio recording, video editing, and career opportunities are also covered in this high energy hands-on course.