HARTFORD HIGH SCHOOL PROGRAM OF STUDIES

2020 - 2021

(The most recent version of the 2020-2021 course catalog can be found on-line at the www.hhsvt.com website. We are printing a limited number of catalogs for our March 2020 presentations, but updates will occur throughout the spring)

2020-21 Hartford High School Course Catalog

Hartford High School

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www.hartfordschools.net

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Our Community

The Town of Hartford is the heart of the beautiful and prosperous "Upper Valley", a region that is home to several renowned educational and medical facilities including the US Veterans Administration Hospital, Dartmouth-Hitchcock Medical Center, and Dartmouth College and Medical School. The Upper Valley is comprised of numerous small towns and villages whose residents hold to community-centered, family values, enjoy freedom from crime and violence, and have ready access to excellent schools. They benefit from living in a clean environment with a multitude of outdoor recreational opportunities including boating, fishing, hunting, hiking, and some of the best skiing in New England only a short drive away.
In keeping with Vermont tradition, Hartford is composed of five distinct, historic villages, with a combined population totaling 10,200. Each village has its own history and unique character.

Our School System

Hartford School District is comprised of three elementary schools (k-5), a middle school (grades 6-8) and a high school (9-12): the total of which is nearly 1500 students. Attached to our high school is the Hartford Area Career and Technical Center which enrolls nearly 350 juniors and seniors from sixteen districts and surrounding communities' members. Our district also hosts 3 unique programs in our region: the Regional Resource Center (RRC), the Regional Alternative Program (RAP), and HARP, a program for students with autism. Each regional collaborative program accepts students from public and private schools around our region.

Message From The Principal

In our ongoing effort to communicate as much information as possible to students and parents, this catalog has been prepared to assist you in planning a rewarding, meaningful, and challenging course of study. Toward this end, Hartford High School offers a comprehensive curriculum that includes multiple pathways to graduation. The programs in this catalog are designed to meet the particular educational needs of every student, thereby assisting each individual to best prepare for his / her future. As students create their Personalized Learning Plan (PLP) it is incumbent upon us to support these diverse and unique needs through ever-more flexible course offerings.

We hope that both parents and students read the contents of this catalog carefully and use the information contained within to guide their conversation about the student's program. There are a number of staff prepared to help students in their course choices; School Counselors, advisers, teachers, support personnel, and administrators all can play a role in discussing courses, and answering questions. The timing of course registration is vital; students and their parents should take the process seriously as Hartford High School builds the schedule based on student choices.

While examining the array of course selections available at HHS, it is important to consider both short-term needs as well as long-term goals. I urge students to think about their PLP and the varied ways we can partner with them to actualize their goals. Please also pay special attention to specific graduation requirements and the recommended sequence of courses as they plan their personalized academic program.

I know that this procedure can seem daunting especially when one is asked to consider a four-year plan. I encourage you to seek out your counselor, advisor, and teachers for support in this endeavor. As always, we are ready to help in any way we can. We are as close as a phone call or email. Please do not hesitate to let us be of assistance.

Nelson Fogg
Principal

Hartford High School Faculty Reflections on What Our Institution Has to Offer…

There exists a knowledgeable, well-trained, and caring faculty, one vitally committed to supporting students in not only achieving classroom successes but also in extracurricular activities, independent studies, and planning their futures.

Hartford is at the forefront of educational technology, with the latest in electronic hardware available to teachers who are offered ongoing opportunities to increase their personal knowledge and expertise in its use to provide interesting and exciting classroom experiences for their students. On-line courses offer both an expanded curriculum and a chance to learn in a new and exciting format.

Our block schedule which includes Advisory and H-Block permits students flexibility in maximizing their educational experience with the opportunity to take thirty-two courses during a 4-year high school career, which includes subjects at the advanced and AP level as well as online selections, the accessibility of an on-campus tech center, and an open door to enrolling in Dartmouth courses. In accordance with Vermont's Act 77, Hartford is working with juniors and seniors toward dual enrollment.

At Hartford, students have the opportunity to interact with a diverse population of friendly, open, and tolerant students—supported by the school's decision not to track pupils but rather instead letting them personalize their curricula by making decisions about accepting the challenge offered by courses of differing levels from foundational to advanced placement levels of study.

The student body has in recent years been led by a strong and involved student government, one that has had both the attention and support of the administration and resulted in significant student-centered or driven enhancements and/or changes such as: an electronic events sign, new lockers, refinished lockers, pep rallies, a fireworks display, two murals, a manageable cell phone policy, and a school-based improvement committee.

The school offers a safe environment that has a variety of confidential support systems in place to meet challenges and difficulties that can unexpectedly confront students. Among these would be: an on-site alternative education program (QUEST), an experienced counseling staff, a behavior interventionist, student assistance program personnel (SAP), a mental health clinician, and an HCRS school-based clinician.

For the student who seeks to be well-rounded, Hartford High supports a variety of extracurricular activities that include a boys' team and a girls' team in three varsity level sports per season as well as opportunities to perform in music and drama. In addition, there are many smaller clubs and organizations for those seeking a more unique experience.

Hartford places an emphasis on traditional values, trying to instill in its students that honoring and respecting the past has merit, while at the same time being mindful that the students of the 21st Century need knowledge, beliefs, and skill-sets that are commensurate with the rapidly changing world in which they live.

Athletics

Fall
Bass Fishing Div. I
Field Hockey Div. I
Football Div. I
Golf (M, W) Div. II
Soccer (M) Div. II
Soccer (W) Div. II
X-Country (M, W) Div. II

Winter
Alpine Skiing Div. II
Basketball (M) Div. II
Basketball (W) Div. II
Bowling (M, W) Div. I
Ice Hockey (M) Div. II
Ice Hockey (W) Div. II
Indoor Track (M, W) Div. II
Snowboarding Div. I

Spring
Baseball Div. II
Lacrosse (M, W) Div. II
Softball Div. II
Tennis (M, W) Div. I / Div. II
Track & Field (M, W) Div. II
Unified Basketball Div. I

Other Athletic Activities
Rock Climbing Club

Students share Hartford Highlights in their own words....

** Safe school and sense of unity*
** Great variety of classes and interesting subjects from advanced to AP*
** Lots of really good school spirit*
** Great after-school activities*
** Teachers are interactive and involved with the kids*

** The sports program is awesome!*
** There are all kinds of social groups (it's easy to make new friends)*
** Can find help and assistance whenever you need it*
** Many program offerings from HACTC to Dartmouth Classes*

Musical Activities

Concert Band
Concert Choir
Jazz Band
Chamber Choir
Musical
Pep Band
Pizzazz-Variety Show

Non-Athletic Activities

Anime Club
Debate Team
Math Team
National Honor Society
One-Act Play
Prom Committee
STEM Club
Student Council
Yearbook

Mission Statement

Hartford High School challenges students to take primary responsibility for achieving personal, academic, and career goals and supports them in that process.

At Hartford High School,

We value:

1. A safe environment for learning
2. Opportunities for academic enrichment
3. Continuous personal development

We believe that:

1. Students learn best when their physical, emotional, and social needs are met.
2. Multiple instructional environments are needed to address a diverse population of learners.
3. Individual growth results from high expectations and continuous self-improvement.

We expect students will meet the following 21st century learning expectations:

1. Communicate effectively across all disciplines and circumstances
2. Utilize traditional and technological applications to solve problems.
3. Demonstrate the ability to work toward a common goal.

Promotion Requirements

A student's class standing is determined by the number of credits a student has earned. The number of credits required for promotion to the following grade is:

Grade 12	19 credits *
Grade 11	12 credits
Grade 10	6 credits

* to be considered a senior, a student also must have already earned at least 2 English credits and must be able to schedule the remaining graduation requirements during the senior year.

Full-time Status

Hartford High School students are required to take a minimum of the following credits:

Grade 9	8 credits (9 credits if enrolled in band/choir)
Grade 10	8 credits (9 credits if enrolled in band/choir)
Grade 11	8 credits (9 credits if enrolled in band/choir or HACTC)
Grade 12	8 credits ***(HACTC students require 7 minimum credits)*

Failure to comply with any of the above credit requirements will result in a reduced or modified schedule and may affect eligibility for extracurricular activities.

Prerequisite and Sequential Courses

All course prerequisites must be satisfied before a student can enroll in a course. Students should pay careful attention to prerequisites as they select courses; typically a student must pass the previous course to be eligible to take the next course in a sequential subject. Certain courses specify a minimum grade requirement needed to move on to the next course, specifically math and foreign language. Please refer to those sections for further clarification.

Graduation Requirements

To graduate from Hartford High School, a student must earn a total of 26 credits and must meet all local and state graduation requirements. The following distribution of credits is required:

English	4	credits
Mathematics	3	credits
Science *	3	credits
Social Studies **	3	credits
The Fine Arts ***	1	credit
Wellness	0.5	credit
Personal Learning	0.5	credit
Physical Education	1.5	credit
Required Courses	16.5	credits
Elective Courses	9.5	credits
Total ****	26	credits

In addition to the credit criteria, students must also demonstrate proficiency in certain, identified standards-based graduation requirements. Hartford High School has worked extensively to ensure students have many opportunities to engage in this state-mandated process that will culminate with a required student-led conference during the spring of the senior year.

Every student in grade 9 will be supported with a half-credit course entitled "Personalizing Your High School Experience" in the creation of a **Personalized Learning Plan (PLP)**. *(See a course description on page 32.)* This four-year plan will support student exploration of academic and social strengths, interests, aspirations, and challenges. Students will be supported in the development of individualized goals that will drive the student's education during the time they are enrolled at Hartford High School. In addition, students will explore the full range of opportunities available to a Hartford student in the 21st century, including preparation for post-secondary life. Any 11th and 12th grader interested in enrolling in a dual enrollment college course must have a PLP in place prior to their enrollment.

Students may satisfy one of the required credits in either English, Mathematics, Science, Social Studies or Art by successfully completing certain two-year career/technical programs. Please refer to the courses in our Career & Technology Center section for more information.

The Hartford School District has determined that...

* A semester of a physical science and biology is required. Our recommended science sequence includes Earth and Space Science, biology, chemistry and physics.
** One Social Studies credit must be a US History.
*** The Fine Arts graduation requirement may be satisfied by completing one credit from the Art or the Music course offerings.
**** While Hartford High School does not require a World Language for graduation, the minimum college requirement at most colleges is generally 2 to 4 years of the same world language.
***** It is recommended all students have an algebraic experience during their high school career.
****** This is the minimum number of credits required for graduation. All students are encouraged to earn more.

Community Service Graduation Requirements

In the summer of 2010, the Hartford Board of Education produced a series of outcomes that a Hartford High School graduate was expected to attain in some way through the course of his/her career in the school system. Collectively this body of expectations is known as the board's "Ends Policies." Among them is the concept of introducing students to community service, with the intent that students become familiar with what it means and the various ways in which they could become involved in the community.

Specified number of hours for community service = 40 hours

Daily Schedule

The daily schedule is made up of four blocks of time, each consisting of 75 minutes. All students will be scheduled into an Advisory 20 minutes per day, three days per week. Hartford High School students will also be scheduled into a 75 minute "H" block during which they will eat lunch and access academic supports. Band and choir will also take place during this "H" block.

Master Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
Advisory	8:00 – 8:20	Staff time	8:00 – 8:20	Staff time	8:00 – 8:20
Block 1	8:25 – 9:40	8:25 – 9:40	8:25 – 9:40	8:25 – 9:40	8:25 – 9:40
Block 2	9:44 – 10:59	9:44 – 10:59	9:44 – 10:59	9:44 – 10:59	9:44 – 10:59
"H" Block	10:59 – 12:14	10:59 – 12:14	10:59 – 12:14	10:59 – 12:14	10:59 – 12:14
	"H" Block A	10:59 – 11:24			
	"H" Block B	11:24 – 11:49			
	"H" Block C	11:49 – 12:14			
Block 3	12:16 – 1:31	12:16 – 1:31	12:16 – 1:31	12:16 – 1:31	12:16 – 1:31
Block 4	1:35 – 2:50	1:35 – 2:50	1:35 – 2:50	1:35 – 2:50	1:35 – 2:50

HHS Advisory

The purpose of the HHS Advisory is to forge connections among students and staff within the Hartford High School community, creating conditions that facilitate academic success and personal growth. At its very core, the HHS Advisory will provide students with a consistent and small peer community of approximately 12 students across all grades who grow and learn from one another throughout the high school experience. Advisories meet three days per week for 20 minutes as indicated above. Friday morning meetings are held in the gymnasium on scheduled Fridays throughout the school year, during the advisory period. All students are expected to attend.

Each advisor is prepared to serve as an advocate and liaison for every member of the group, helping students navigate school-related choices. In advisory students will also:

Receive important information from the main office, guidance, and other teachers
Attend all-school and grade specific assemblies
Develop a peer-based supportive environment

Advisors are expected to:

Maintain contact with all advisees in their meeting groups
Follow up with grades, attendance and discipline issues
Schedule and facilitate school-wide activities during select Advisory meetings.
Attend meetings on behalf of students and refer students to support services as needed.
Support students through their Personal Learning Plans (PLPs)

School Counseling Services

The Hartford High School Counseling Office provides counseling programs in three domains: academic, career, and personal/social. Our services and programs help students resolve emotional, social, or behavioral problems and help them develop a clear focus or sense of direction. The HHS counseling program includes a number of offerings to support students throughout their high school experiences as follows:

- Work with 9th graders to develop and maintain a Personalized Learning Plan (PLP) that outlines each student's strengths, areas for growth and long-term college and career goals.
- Conduct annual meetings with each student to provide academic and career guidance related to the student's PLP and future plans.
- Make timely referrals and engage in problem solving with students, parents / family members, teachers, and administrators to support individual academic success.
- Provide short-term individual counseling to address immediate concerns of students.
- Collaborate with other school-based specialists and community organizations and agencies.
- Respond and intervene in crisis situations.

Counselors are a supportive advocate for students. The counseling staff teams together to meet the needs of students through the utilization of a comprehensive school counseling model.

Summer Schools

For enrichment purposes or repeating a course for a better grade, summer school options vary greatly in our community. Please visit your child's school counselor for details or options in this area. Any course, whether taken at a school setting or online, must have prior approval if taken to meet a graduation requirement at our school. Opportunities include a computer-based program at Hartford High School.

Guidelines for Obtaining Credit for Alternative Coursework

1. Alternative coursework is defined as classes taken through any of the following venues:
   - Other on-line providers not directly associated with Hartford High School
   - College courses taken at Dartmouth
   - College courses taken through Vermont's Dual Enrollment program (Act 77)
   - College offerings in New Hampshire (RVCC for example)
   - In addition, alternative coursework can include extended learning opportunities (ELOs) including, but not limited to, community-based learning opportunities such as: independent study or internships through The EYE Program.
2. All courses must be approved in advance through the student's School Counselor and the appropriately identified application process.
3. Participation in these alternative courses counts towards a student's total credit requirement of eight (8) per year.
4. For purposes of rewarding credit, a full-term three-credit (3) college course or online course constitutes the equivalent of a one-credit, semester-long high school course.
5. Participation in these alternative courses counts towards a student's extra-curricular eligibility, both in terms of attaining the requisite credit total as well as maintaining the appropriate grade(s).
6. Students are responsible for any tuition costs incurred for courses taken outside the Dual Enrollment and Dartmouth programs.
7. The following alternative credit choices are eligible for credits indicated at Hartford High School:
   - Up to 4 Dartmouth courses may be taken between the spring of the student's Junior year and their graduation
   - Two courses may be taken, and paid for by the state of Vermont, under the Act 77 Dual Enrollment program (assuming the student has identified their desire to do so through their Personalized Learning Plan – PLP) (see page 14)

Hartford students are encouraged to consider all educational venues as they create their Personalized Learning Plan (PLP). Students will be supported in the learning goals they express in their PLP. Hartford High School is committed to supporting our students' exploration of the elements outlined in Vermont's ACT 77, including: Community-based learning opportunities, Dual Enrollment opportunities and the development of a Personalized Learning Plan.

Hartford High School College Acceptances for the Class of 2019 (a sample)

Ball State Univ
Barton College
Bennington College
Brown Univ
Castleton Univ
Champlain College
Clarkson Univ
Coastal Carolina Univ
Colby-Sawyer College
College of Charleston
Colorado State Univ
CCV of Montpelier Vermont
Curry College
Dalhousie Univ
Dartmouth College
East Carolina Univ
Emmanuel College
Fitchburg State Univ
Franklin Pierce Univ
Gardner-Webb Univ
Green Mountain College
Ithaca College
Johnson & Wales Univ
Keene State College
Lebanon College
Lehigh Univ
Maine College of Art
Marlboro College
Mass College of Art and Design
Merrimack College
Montserrat College of Art
Muhlenberg College
New England College
Nichols College
Northern VT Univ-Johnson
Northern VT Univ-Lyndon
Norwich Univ
Ohio Univ
Pace Univ, NYC
Paul Smith's College
Plymouth State Univ
Point Park Univ
Queen's Univ
Queens Univ of Charlotte
Quinnipiac Univ
Rensselaer Polytechnic Institute
Rhode Island College
Rivier Univ
Rochester Institute of Technology
Roger Williams Univ
Roosevelt Univ
Russell Sage College
Saint Joseph's College-ME
Saint Michael's College
Savannah College of Art and Design
Seton Hall Univ
Southern New Hampshire Univ
Stonehill College
SUNY College at Cobleskill
Univ of Bridgeport
Univ of Cincinnati
Univ of Colorado at Boulder
Univ of Guelph
Univ of Hartford
Univ of Maine at Fort Kent
Univ of Massachusetts, Boston
Univ of Massachusetts, Lowell
Univ of Minnesota, Twin Cities
Univ of New England
Univer of New Hampshire at Durham
Univ of NC at Greensboro
Univ of Rhode Island
Univ of Rochester
Univ of San Francisco
Univ of South Florida, Tampa
Univ of Utah
Univ of Vermont
Univ of Wisconsin, Madison
Univ of Wyoming
Vermont Technical College
Wells College
Wentworth Instit of Technology
Western Connecticut State Univ
Wheaton College

Guidelines for Awarding of Credit(s) in International Exchange Programs

Foreign study is supported as an excellent means to broaden a student's horizons. To facilitate a student's academic planning with respect to spending part or all of a year aboard, the following guidelines have been established:

1. A student must discuss plans for international study with his/her counselor in advance of going abroad in order to establish what credit(s) will potentially be awarded upon the student's return.

2. In order to validate coursework taken abroad, a report card or transcript from the foreign school attended must be presented and reviewed before any credit will be awarded.

3. It is expected that the length of class time spent taking a course for which credit is being sought will approximate the time parameters of courses in general taken at HHS. Normally, this amounts to 120 hours per credit. Exceptions that could alter this rule would be: (1) college courses taken in the host country (See below - Item 8); and (2) credit for "travel experience." (See below - Item 9.)

4. High school courses, taken in the host country, will be considered for HHS credit if they fit into the following categories: the Arts, Industrial Arts, Computer Technology, Physical Education, Foreign Language, Science, World History, host country's history, Social Sciences, and Mathematics. These courses may be applied toward elective credit as well as to meet specific requirements, pending a review of suitable materials to explain the course's content provided by the host school.

5. English and United States History will not be considered for credit when taken in the school of another country. Exceptions that would be considered are "American schools" based in another country or schools maintained on a U.S. military installation.

6. Courses taken abroad and submitted for HHS credit will be recorded on a student's transcript as either "P" for "Pass" or "F" for "Fail."

7. The maximum number of credits accruable from a school year of study abroad would be eight.

8. Since college-level courses generally meet for less class time per semester than a high school course, it is recognized that the college offering's content is usually at a higher degree of difficulty. This therefore justifies awarding credit equal to a full-semester high school course.

9. An elective credit for "International Travel" may be awarded by HHS upon the exchange student's presentation and faculty review of a travel log, submission of a paper discussing a salient aspect of the experience, and a brief interview of the returning student by the school's administration.

Course Changes

The process of building a master schedule for Hartford High School is a difficult and complicated task. In part, it involves matching student requests for specific courses with the availability of teachers and classrooms in the school. The specific number of sections of each course is determined by the number of students who select that course.

Students are urged to consider all the options available to them as they plan their programs and select their courses for next year. Every effort should be made to select courses which will be realistic, meaningful, and challenging.

Once a schedule is finalized, changes are discouraged. Our school's procedure for schedule changes is clear; it is not recommended that any student begin a new course after the second week of the semester.

* A semester course dropped after the first three weeks or a full year course dropped after the last day of the first marking period will be recorded as a "WP" (Withdrew with Penalty). No credit will be awarded for work completed in this course and the withdrawn grade will be assigned a value of zero for the purpose of computing the student's cumulative grade point average and class rank.

Communications & Student/Parent Portal Access

Communication between the home and school is encouraged throughout the student's high school career. This includes communications regarding student progress, performance, achievement, and attendance. Parents are encouraged to play an active role in their child's education and to contact teachers, school counselors, and administrators as questions or concerns arise. Each teacher has a private voice mailbox and an email account at school; please verify which method of communicating is most effective. For communicating via phone, please call the Main Office at any time and ask for that teacher's voicemail extension to leave a message.

Also, both parents and students can view student attendance, homework completion, and grades through the portal access of our school's database system, "Infinite Campus". Each student and each parent is provided an online account that is valid all four years of high school. The URL for the parent portal is:

https://vtcloud.infinitecampus.org/campusE/portal/hartford.jsp

If you have any questions regarding your access information with Infinite Campus please email Mrs. Burnett at burnettl@hartfordschools.net.

Student Records

A student's record may be reviewed by the student and his or her parents or guardians. Arrangements for reviewing student records should be made by contacting your school counselor. No records shall be shared with non-school personnel without student or parental written permission.

Nondiscrimination Policy

Applicants for admission and employment, students, parents, employees, sources of referral of applicants for admission and employment, and all unions or professional organizations holding collective bargaining or professional agreements with the Hartford School District are hereby notified that this District does not discriminate on the basis of race, color, national origin, sex, age, or handicap in admission or access to, or treatment or employment in, its programs and activities. Any person having inquiries concerning the Hartford School District's compliance with the regulations implementing Title VI, Title IX, or Section 504 is directed to contact the Superintendent of Schools, Office of Superintendent, White River Jct., VT 05001, phone number 295-8600, who has been designated by the Hartford School District to coordinate the District's efforts to comply with the regulations implementing Title VI, Title IX, and Section 504. Inquiries concerning the application of nondiscrimination policies may also be referred to the Regional Director, Office of Civil Rights, J.W. McCormack Post Office, Room 222, Boston, MA 02109-4557.

Early Completion of Studies

A student may request to complete all coursework and graduation requirements before their scheduled graduation date. These students are encouraged to meet with their counselor prior to their senior year to discuss options and begin the application process. It is required that a written request from the student and written parental support be submitted to the counselor who will then submit to the principal's office for approval. Once the administrative team approves the request, the student will meet with the principal to complete the process and secure final approval. Course availability may affect approval. This could mean graduation as much as a year early, at what would nominally be the end of the junior year, or in January of the student's senior year.

Students who desire to graduate a year early, at the end of their third high school year, will be considered juniors until the day of graduation. They will be considered juniors for standardized testing. Please note that any student that seeks to graduate a year early will need to communicate their intention by Oct. 1 to be included in the senior section of the yearbook or they will be placed with their cohort class of juniors. Historically students have done this in order to start college early as well as secure both full and part-time employment.

Enrollment for Non-Hartford Residents

Hartford High School is open to students whose legal guardian resides in the Town of Hartford. All students who are not residents of the Town of Hartford and plan to enroll at HHS must do so by May 1st. Students who enroll after the May 1st deadline may not have the ability to exercise full choice of classes as the schedule will have been created. Counselors will make every effort to support these students in the creation of a meaningful schedule within the limitations of the master schedule.

I. Non-Hartford students (all grades)

Must register and enroll by submitting a course selection sheet (and other required forms) to the Hartford High School guidance department.

II. Tuition Voucher

Prior to enrollment all non-Hartford resident students must have a Tuition Voucher signed by the authority in their municipality ensuring that said municipality will be responsible for paying the Hartford High School tuition rate and all other educational expenses as legally required. Where appropriate, once students complete this form and residency is verified, they are accepted conditionally until a meeting, whether 504, IEP, or EST, can be held to determine Hartford's ability to meet the educational needs of the student.

School Choice

Students who reside in a community that has a designated high school have, by Vermont Law, an opportunity to participate in a school-choice program. This program requires all Vermont school districts operating a public high school to participate in this program of school choice. For more information regarding regional school-choice, students should contact their designated high school or the Hartford High School Guidance Office. Hartford High School's capacity to accept school-choice students is dependent on the school's anticipated total enrollment for the subsequent school year. Please refer to the following due dates for submitting applications:

Due Dates

1. Applications for transfer are due to current school district through February 14.
2. Applications to receiving school by March 1.
3. Notification of acceptance takes place by April 1.
4. Student must accept transfer by April 15.

Withdrawal from Hartford High School

Though we encourage all students to remain at Hartford High School, we understand there are times when obstacles or life decisions result in the need to withdraw from our school. At that point when a family decides to withdraw a student, we recommend a meeting with the school counselor, his/her assistant principal, case manager, and teachers. This meeting could provide discussions of alternatives and future options as well as a meaningful exit interview and signatures from all parties. Once a student withdraws from our school, and eventually decides to return, he/she must begin our re-enrollment process with his/her counselor.

Honors Program

This program is tailored to meet the needs of academically talented and highly motivated students who seek to challenge themselves at the maximum level.

Students are required to:

- Elect a minimum of fifteen Advanced, Advanced Placement or Dartmouth courses (two of the fifteen courses must be on the Advanced Placement level)
- Take two Advanced Placement Exams or two SAT II subject exams or two Dartmouth College courses.
- Maintain a 3.25 grade point average with no final grade below a C-
- Elect 3 credits of foreign language
- Complete 100 hours of pre-approved community service over four years
- Participate in a school-sanctioned sport or major school activity each year
- Follow all timelines for meeting the requirements of the Honors Program
- Document and maintain a portfolio of all Honors Program requirements
- Complete an Honors Program Capstone project over the course of Junior and Senior year, which includes a substantial written component
- Attend two Dartmouth lectures yearly and submit two written summaries
- Attend all Honors Program workshops yearly
- Meet regularly with Honors Program Director and attend monthly meetings
- Attend a two-day retreat during the Sophomore year

Special recognition will be given at graduation. Students may indicate interest in the Honors Program by completing an application that can be obtained in the Counseling Office or online at the Hartford High School website (click on Academics).

College and On-line Learning Opportunities

Dual Enrollment

Students in the summer of their sophomore year, their junior year, and senior year up to graduation, may enroll in a total of two college courses, assuming the student has identified their desire to do so through their Personalized Learning Plan – PLP. These courses are currently at the expense of the State of Vermont and eventually as a shared expense between the state and local district. There are a few requirements that must be met and parameters within which the courses may be taken, such as the course must be at a participating Vermont college. The courses could be online, but again they must be supported by a Vermont-based college. This represents an excellent opportunity to get a head start on accruing college credits, as well as a chance to experience the type of rigor expected in a college-level course while at the same time obtaining credit applicable to high school graduation. In order to participate in a dual enrollment course students need to complete the dual enrollment form with the appropriate signatures. Please see your school counselor for further information.

Dartmouth College & Other College Courses

Hartford High School second semester juniors and all seniors who meet the eligibility requirements may take as many as 4 courses at Dartmouth College. This is a special opportunity for advanced students to take one or more classes at Dartmouth College and earn college credit while in high school. Students interested in learning more about this program should contact their high school counselor. While every effort is made to support students' enrollment in Dartmouth classes, there are times when a student's Dartmouth choice conflicts with their Hartford High School schedule. When this occurs, students may need to choose between the Dartmouth class and their HHS class. The students school counselor will facilitate this decision and the resulting options.

We also encourage other college programs such as Community College of Vermont. These options are done with administrative approval only. Please see the Student/Parent Handbook for more information.

It is our intent to follow the college or universities expectations regarding the reporting of the college/ university grade on the students' transcript. If a student would prefer not to include this information they must meet with their counselor and the principal; the transcript will include reference to the course taken.

Art Courses

2-D and 3-D Design

1 credit

Course number: 1174
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Students in this course are introduced to, and gain experience, working in a variety of two and three dimensional media as well as developing an understanding of the elements and principles of design. Emphasis will be placed on quality, craftsmanship, creativity, as well as practice and skill techniques with new materials. This class will stress creative expression, problem-solving skills, historical and cultural information, aesthetic valuing, and connections to careers. Projects will be created in a variety of both two and three dimensions. A partial list of materials may include pencil, pen and ink, charcoal, watercolor, cray-pas, acrylic paint, ceramics, papier-mâché, plaster, and wire. This course may be repeated with permission from the instructor.

AP Art and Design 1 & 2 (Advanced Placement)

1 credit

Course number: AP Art & Design 1 (1160) / AP Art & Design 2 (1159)
Open to: Grades 11-12
Prerequisite: Interview with and permission from the Arts Department
Scheduled: 1 Block **Full Year**

This class is for highly motivated, independent students who want to challenge for an Advanced Placement Art credit in the area of 2D Design, 3D Design, and/or Drawing. Students will create a full body of artworks, document their creative process, and write frequent reflections. Keeping an investigative sketchbook is a must. If you are interested in this challenge, see Mr. Mitchell to sign up for an interview with an Arts Department team and be prepared to share examples of previous artwork and/or sketchbooks. Students need explicit permission from the Arts Department team prior to enrolling in this course. During the second semester of this full year course you will complete and submit a portfolio.

Connect, Create and Cultivate: Art History Experience

1 credit

Course number: 1161
Open to: Grades 11-12
Prerequisite: Interview with and permission from the Art Department
Scheduled: 1 Block Fall / Spring

Who created ART? What does ART look like? Why does ART exist? In this course we will make Art and look at ART through cultural, historical and creative perspectives. We will examine a vast array of artistic creations from all over the world and use historical content to analyze these creations; when, where, why, and how were these creations made? Students will be active participants in this course with research and studio art projects. Some examples of what we will examine are: Prehistoric Era, Body Art, Creations for the Illiterate, Photography and Motion Picture, and Artistic Creations in Cuisine.

Drawing

1 credit

Course number: 1170
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This studio course to introduce students to a wide variety of drawing and 2D design techniques including: graphite, charcoal, and ink. Students learn the vocabulary of the elements of art and principles of design so they can discuss and critique works of art. Students are encouraged to think creatively and make connections between art and other areas of study. Art work will be put on display accompanied by an artist statement. This course may be repeated with permission from the instructor.

While this course is taught at the "standard" level, students will have the opportunity to earn an "advanced" credit by applying to do so through the teacher.

Metals/Ceramics

1 credit

Course number: 1165
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This is a multimedia fine arts and crafts course. Metals and Ceramics provides students the opportunities to participate in group and independent projects. Students will learn to develop fine craftsmanship, creative problem-solving skills and learn historical developments of technology within the visual arts and crafts. During the metals section, students explore traditional and new methods in the metal arts and jewelry. Techniques include sawing, forming, soldering, surface treatments and stone setting. A wide variety of precision tools and equipment are used. The ceramics portion of this course consists of studio projects in sculpture and functional pottery. Students learn techniques in hand-building, glazing, painting and a variety of clay bodies. Lessons are supplemented and supported with drawing, reading and writing assignments. This course may be repeated with permission from the instructor.

Metals/Ceramics (Advanced)

1 credit

Course number: 1166
Open to: Grades 10-12
Prerequisite: Metals/Ceramics and permission from instructor
Scheduled: 1 Block Fall / Spring

This course builds upon past art projects and the elements and principles of design. The new techniques taught in Metals are cold connections, riveting and bezel making. Ceramics new techniques will be throwing on the pottery wheel, mold making and slip casting. Students will learn new technical expertise needed to pursue their personal artistic inquiries. Lessons are supplemented and supported with drawing, reading and writing assignments. This course requires permission from the instructor to enroll.

Painting 1

1 credit

Course number: 1172
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course will teach various methods and techniques for painting through the exploration of color. This will give an increased understanding of the many ways paint is used to express visually. Various composition elements will be taught and used to increase sophistication of images. Students will develop their personal style and imagination in the paint medium. This course may be repeated with permission from the instructor.

Painting 2

1 credit

Course number: 1171
Open to: Grades 10-12
Prerequisite: Painting 1 OR consent of the teacher.
Scheduled: 1 Block Fall / Spring

This course will teach various methods and techniques for painting through the exploration of color. This will give an increased understanding of the many ways paint is used to express visually. Various composition elements will be taught and used to increase sophistication of images. Students will develop their personal style and imagination in the paint medium. This course may be repeated with permission from the instructor.

Studio Painting

1 credit

Course number: 1173
Open to: Grades 10-12
Prerequisite: Painting 2 OR consent of the teacher.
Scheduled: 1 Block Fall / Spring

This course is for the student who has already completed Painting 1, and wants to pursue further exploration in paint. Students will decide on a "Series" they will work with for the semester, resulting in the creation of a unified portfolio of images. All studio painters will present their body of work in solo show in the "H" Lobby, present their series of paintings to a group of faculty, and write an Artist Statement explaining their study. Sketching and journal writing is a required part of the curriculum. This course may be repeated with permission from the instructor.

Sculpture

1 credit

Course number: 1175
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course will offer a unique opportunity to experiment with visual expression in a variety of materials and techniques. Emphasis will be on developing authentic personal expression in sculpture. Students will create sculptures "in the round" and "in relief." Fantasy and imagination will be stressed using line, shape, color, and texture. Art history will be used to introduce students to various artists as influence to their own visual pieces. Sketching and journal writing is a required part of the curriculum. This course may be repeated with permission from the instructor.

Independent Studio Art

1 credit

Course number: 1198
Open to: Grades 10-12
Prerequisite: Previous Art courses AND consent of the Instructor
Scheduled: 1 Block Fall / Spring

A studio course designed to build on the artistic skills acquired in previous classes. This course provides an opportunity to do concentrated work on unique projects of interest for advanced students who have demonstrated in previous art courses the individual motivation and seriousness necessary to sustain an independent curriculum. A partial list of offerings may include drawing, printmaking, painting, 2D and 3D design, ceramics, metals and non-traditional materials. Students are encouraged to exhibit their projects and write an artist statement explaining and accompanying their exhibit. Sketching and journaling are encouraged throughout the semester. Content should be determined by the student in close consultation with the instructor prior to and throughout the semester.

The Eye: Art

1 credit

Course number: 0996 - Art
Open to: Grades 10-12
Prerequisite: Must have previously taken a regular Art elective.
Scheduled: 1 Block Fall / Spring

Please refer to the Independent Study course description on page 51.

Driver Education Courses

Driver Education

¼ credit

Course number: 0665 (Fall) / 0675 (Spring)
Open to: Grades 10-12
Prerequisite: 15 years old and have a valid learner's permit before August 1st for Semester 1 & before January 1st for Semester 2.
Scheduled: 1 Block Fall / Spring

By State Law in order to get a driver's license before age eighteen, a person must have satisfactorily completed a driver education course. In order to receive credit for this course, a student must successfully complete both the classroom and the behind-the-wheel phases of Driver Education. All students will receive a minimum of 30 classroom hours of instruction, six hours behind the wheel, and six hours of observation time. Enrollment is determined by grade level then date of birth and if student has obtained a learner's permit.

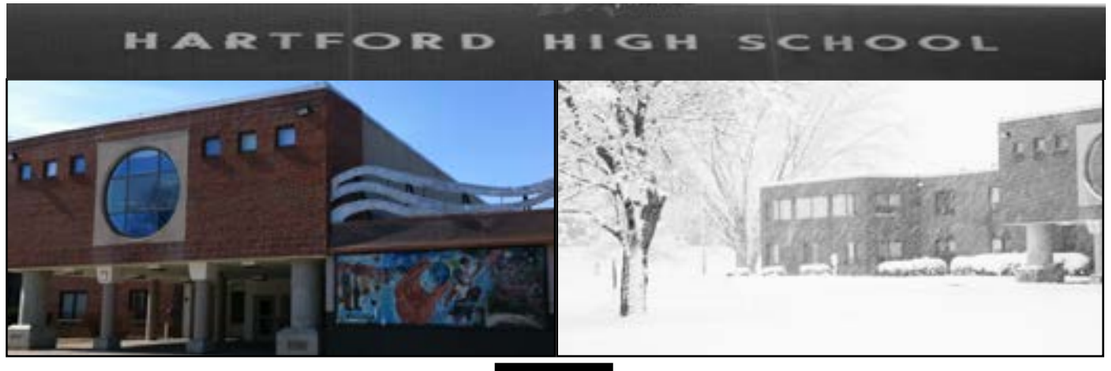
This course must be taken in conjunction with a physical education course or technology elective. Students who do this will earn ¾ credit for the adjoining course and ¼ credit for Driver Education.

Driver Education (Summer)

¼ credit

Open to: Grades 10-12
Prerequisite: 15 years old and have a valid learner's permit before June 1st
Scheduled: Summer

The opportunity exists to take Driver Education during the summer. The classroom meets 5 days per week, for five weeks, typically from 7:30-9:00 a.m. In addition to the classroom, students participate in daily driving sessions. Students must attend all classes and complete 6 hours of behind-the-wheel instruction. A separate registration will take place during second semester for the following summer. Enrollment is determined by grade level then date of birth and if the student has obtained a learner's permit.



English Courses

All students need four credits in English—one of which must be Patterns of Literature & Learning and one of which much be Perspectives of Literature—in order to graduate. Generally these are taken in the 9th and 10th grade years. Students may select from a variety of electives in their 11th and 12th grade years to complete their requirements. **All English courses for grades 9 through 11 will be heterogeneous with an embedded advanced credit opportunity determined by the body of student work as it relates to the course objectives and targets.**

The following course is considered an elective English class and, therefore, does not fulfill one of the four English graduation requirements.

0092 Public Speaking & Debate 2

The following English classes **do** grant a credit toward the four credit graduation requirement:

0035 American Literature
0070 Creative Writing
0041 English & Composition (Advanced)
0042 English Literature & Composition (Advanced Placement)*
0071 Film Study
0099 Hands on the Land: Building Hartford's Farm
0073 Media Literacy: Overcoming Information Overload
0015 Patterns of Literature & Learning
0025 Perspectives in Literature
0045 Professional Communication & Composition
0091 Public Speaking & Debate 1

Patterns of Literature and Learning

1 credit

Course number: 0015
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

All students must enroll in and pass Patterns of Literature & Learning. All freshmen students, unless otherwise recommended by staff, must enroll in this course. This is a heterogeneously grouped survey course that will expose students to the power of story: from ancient mythology to modern day literature, students will explore the art of storytelling through the lens of Focus, Form, Voice, Depth, and Audience. All teachers will support the development of executive functioning skills such as organization and time management.

Public Speaking & Debate 1

1 credit

Course number: 0091
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Public speaking and debate are highly valued skills at the collegiate level and in the workplace. This course gives students an opportunity to practice and develop communication skills that can be used in a variety of speaking situations. Students will become more effective speakers by working on voice, organization and posture. We will practice various debate formats including Public Forum, World's, and Model UN with a focus on research, argumentation, logic, analysis, and teamwork. Public forum has pairs of debaters arguing pro or con on a current social or political issue. World's Debate introduces students to logical argumentation without the use of evidence. Model UN introduces students to issues like world hunger, human rights, climate change and how different countries come together to resolve these issues. The basic purpose in this class is to empower students to become more comfortable with public speaking and present themselves with confidence.

Public Speaking & Debate 2

1 credit

Course number: 0092
Open to: Grades 9-12
Prerequisite: Public Speaking & Debate 1
Scheduled: 1 Block Fall / Spring

This course is designed for students who want continued growth in public speaking and debate. Whereas, level 1 students are introduced to public speaking, research, organization and argumentation, level 2 students are expected to improve on these foundational skills and work toward greater proficiency. Level 2 students are also expected to be mentors to level 1 students and assist in debate instruction and rounds.

Debate 2 is considered an elective class and, therefore, does not fulfill one of the four English graduation requirements.

Perspectives in Literature

1 credit

Course number: 0025
Open to: Grades 10-12
Prerequisite: Patterns of Literature & Learning
Scheduled: 1 Block Fall / Spring

Perspectives in Literature will emphasize the reading and analysis of complex texts spanning a range of time periods and geographic locations to explore the perspectives of others. This course will utilize excerpts and larger works, as well as independently chosen material to explore a range of cultures.

Creative Writing

1 credit

Course number: 0070
Open to: Grades 10-12
Prerequisite: Perspectives in Literature
Scheduled: 1 Block Fall / Spring

In this course, students will explore the major literary genres of creative writing: fiction, poetry, and creative nonfiction. Short readings in each genre will be paired with writing assignments addressing various elements of the forms. Students will also complete a long term project in the genre of their choice.

Hands on the Land: Building Hartford's Farm

1 credit

Course number: 0099
Open to: Grades 10-12
Prerequisite: Patterns of Lit & Learning
Scheduled: 1 Block Fall / Spring

This class provides a hands on, minds on, outdoor learning opportunity for students that utilizes a place-based and deep learning/inquiry model to pull English and possibly other content areas outside of the classroom and on to the land. The long term goal is to start a farm and would entail creating an outdoor place that promotes the values and vision of the district through which students can demonstrate a complex and deep mastery of content performance indicators and learning outcomes. Students will read, write, speak and listen in an authentic setting, interact with the public, conduct research, and make proposals to get this project going.

Film Study

1 credit

Course number: 0071
Open to: Grades 11-12
Prerequisite: Perspectives in Literature or teacher recommendation
Scheduled: 1 Block Fall / Spring

In this course, students will be introduced to major film terms, techniques, and narrative structures in order to understand how films are constructed to make meaning. Major films, both classic and contemporary, will be examined for these elements. Students will also complete a long term project in either the creation of a film or the study of a particular genre or auteur.

Media Literacy: Overcoming Information Overload

1 credit

Course number: 0073
Open to: Grades 11-12
Prerequisite: Perspectives in Literature or teacher recommendation
Scheduled: 1 Block Fall / Spring

This course we will examine the many ways in which the media influences everyone and everything. The first half of the course will focus on the basics of micromessaging, bias, advertising, and types of media. The second half of the course will be spent applying that knowledge to popular movies, shows, news outlets, books, artwork, and more.

American Literature and Composition

1 credit

Course number: 0035
Open to: Grades 11-12
Prerequisite: Perspectives in Literature (A) or teacher recommendation
Scheduled: 1 Block Fall / Spring

This course explores themes central to American culture and identity through both modern and classic texts. Students will use novels, poetry, film, historical documents, and nonfiction writing to enhance their critical thinking and analysis skills. Themes and concepts such as freedom, the realities of the American Dream, society's influence on the individual, and others will be explored. The course is designed to be responsive to student need and interest. Through creative and personal writing, analytical responses, presentations, and projects, students will strive towards goals in reading, writing, speaking, and listening.

Professional Communication & Composition

1 credit

Course number: 0045
Open to: Grades 11-12
Prerequisite: Perspectives in Literature and one additional English credit
Scheduled: 1 Block Fall / Spring

This course focuses on the necessary skills and tools needed to be successful and to adapt to the college and business worlds. Students will develop communication and composition skills and will work collaboratively to develop their ability to analyze and interpret information, write professional documents, and speak effectively. Students will pursue independent research on a question or problem of their choice and produce a paper that reflects a deep understanding of a topic. This course is meant for those students who want to work on the skills that college professors look for in their classrooms and business leaders seek in their employees, and is intended to bridge the gap between high school and college or career entry. Students may dual enroll and receive college credit through CCV for this course.

English & Composition (Advanced)

1 credit

Course number: 0041
Open to: Grades 12
Prerequisite: American Literature (A) and teacher recommendation
Scheduled: 1 Block Fall / Spring

Advanced English & Composition emphasizes the power of clear and articulate language. Here students will implement their knowledge of literary conventions and how they serve to create communicative art forms. There is a heavy emphasis in writing conventions (grammar, usage and mechanics) and their application toward the critical writing of both texts and film: poetic, dramatic, fictional, informational and persuasive. Students will also be required to deliver several oral presentations both of academic and personal content. The instructor assumes that all students enrolled will exhibit the motivation and interest of those who are seeking post-secondary education. **There is a pre-reading and writing component to this course that MUST be completed before the course begins--NO EXCEPTIONS.*

English Literature & Composition (Advanced Placement)

1 credit

Course number: 0042
Open to: Grades 12
Prerequisite: Advanced English & Composition and teacher recommendation
Scheduled: 1 Block Spring

Advanced Placement English Literature and Composition is for students who wish to take the AP Literature Exam through The College Board. Poetry, drama and fictional works are the core topics of study and serve as the tools for literary criticism through precise analyses of literature. In order to best prepare students for the AP exam, they will read extensively, become familiar with literary terminology and classifications, and write numerous critical essays. This course is for students who exhibit college level motivation and interest in literature.

Students enrolled in an AP course are expected to take the AP exam in the spring as part of the course requirements. *Exam expectation: A student enrolling in this course will take the AP exam in May. The exam fee is approximately $89--funding this exam should not be a deterrent for enrollment. See the English Department Coordinator for financial assistance.

English for Speakers of Other Languages Courses

English for Speakers of Other Languages I

1 credit

Course number: 0053
Open to: Grades 9-12
Prerequisite: For students whose native language is not English and who are at a beginning stage of learning English
Scheduled: 1 Block Fall / Spring

This introductory course is offered to newcomers to the United States and to academic English. ESOL I offers individualized support to help students develop the language necessary to succeed in the mainstream high school classroom. In addition to receiving assistance with academic coursework, students will develop a personal vocabulary acquisition plan; acquire the basic social and academic English needed for competence in speaking, listening, reading, and writing through a variety of media; practice reading strategies using graded readers and adapted works of literature; and practice basic grammatical structures and writing conventions. Credit earned in this course will fulfill the English graduation requirement.

English for Speakers of Other Languages II

1 credit

Course number: 0054
Open to: Grades 9-12
Prerequisite: For students whose native language is not English and who are at an intermediate stage of learning English
Scheduled: 1 Block Fall / Spring

ESOL II is designed to help students further develop the communicative and academic language skills necessary to succeed in the mainstream high school classroom. Learners will develop an individualized vocabulary acquisition plan; continue to acquire the social and academic English needed for speaking, listening, reading, and writing through a variety of media; reinforce reading strategies using graded readers, adapted works of literature, and authentic texts in a variety of genres; and practice more complex grammatical structures and writing conventions. Credit earned in this course will fulfill the English graduation requirement.

English for Speakers of Other Languages III

1 credit

Course number: 0055
Open to: Grades 9-12
Prerequisite: For students whose native language is not English and who are at an advanced stage of learning English
Scheduled: 1 Block Fall / Spring

This course is offered to English Language Learners whose native language is not English but whose academic competence in English approaches native-like mastery. Students will develop a personal program for the acquisition of academic vocabulary; further develop and reinforce the English language skills needed to interact in an academic environment through a variety of media; reinforce reading strategies using authentic texts; and practice using complex grammatical structures and idiomatic language in a variety of registers. Credit earned in this course will fulfill the English graduation requirement.

TOEFL Preparation

1 credit

Course number: 0052
Open to: Grades 9-12
Prerequisite: For students enrolled in the ESOL program
Scheduled: 1 Block Fall / Spring

This course is designed to help prepare ESOL students to take the Test of English as a Foreign Language for admission to US colleges and universities. Students will further their proficiency in the four skills and develop their vocabulary while learning test-taking strategies in the context of practice TOEFL exams. Credit earned in this course does ***not*** fulfill the English graduation requirement.

ESOL Tutorial

1 credit

Course number: 0051
Open to: Grades 9-12
Prerequisite: For students enrolled in the ESOL program
Scheduled: 1 Block Fall / Spring

This class focuses on providing ESOL students with the support needed to succeed in their mainstream academic courses. In addition students will work on individual or group projects, keep a vocabulary notebook, and pursue a personal program of reading and journaling. Credit earned in this course does ***not*** fulfill the English graduation requirement.

Mathematics Courses

All students need three credits in Mathematics in order to graduate. The Mathematics Department aims to increase student understanding of mathematical skills, concepts and problem solving in Number and Quantity, Algebraic Thinking, Geometric Thinking, and Mathematical Modeling to prepare for college or career readiness. Through the language of mathematics, students will develop logical reasoning and critical thinking to be able to access and analyze information and effectively communicate solutions.

It is also the recommendation of the department that those students enrolled in Algebra 2 or higher have a graphing calculator (TI-84 series). Calculators are available during the day in the classroom.

Pure Mathematics Course Sequence	Applied Maths
• Pre-Algebra • Algebra 1 (2) Options: Semester or Full Year (Advanced level only offered in Grade 8) • Geometry (Regular or Advanced) • Algebra 2 (Regular or Advanced) • Pre-Calculus (Regular or Advanced) • Calculus (Introduction and/or AP) • Dartmouth Math Courses	The discipline of mathematics helps us understand and describe the world around us. The math department offers several courses where students can apply their mathematics to see the practical applications that will be encountered in life and the workplace. • General Applied Math • Business Math (School Store) • Introduction to Engineering - Technical Math • Data Mining • Statistics • Computer Programming

Pre-Algebra

1 credit

Course number: 0222
Open to: Grade 9-12
Prerequisite: Teacher Recommendation Only
Scheduled: 1 Block Fall / Spring

This course is designed to prepare students for a high school algebra course. The focus of this course is to create a foundation of algebraic thinking. To accomplish this task, students will work with operations on algebraic expressions and equations. Students will learn to use algebra to represent patterns and relationships. The students will be introduced to both algebraic and geometric concepts.

Algebra 1

1 credit or 2 credits

Course number: 0213 (Semester) / 0212 (Full Year)
Open to: Grade 9-12
Prerequisite: Placement Test
Scheduled: 1 Block 1 Semester or Full Year

This course is designed to build a solid foundation for future success. There will be periodic Standards Based Tests for students to judge their progress. This course will provide opportunities to apply algebraic concepts to real world applications, to geometric, statistical and probability models, and to make connections between concrete models and abstract concepts. This course will develop an understanding of the Language of Algebra, Monomial Operations, Simplifying Radicals and the Pythagorean Theorem, Solving Linear Equations, Graphing Inequalities, Graphing Linear Functions, Writing Equations of Lines, Systems of Linear Equations, Polynomial Operations, Factoring of Polynomials, Quadratic Functions, and Exponential Functions.

Since this course is Standards Based, any student who shows proficiency by successfully passing all periodic Standards Based Tests AND the final exam in January of the yearlong course will be allowed to test out.

Geometry

1 credit

Course number: 0225
Open to: Grades 9-12
Prerequisite: Algebra 1 with 60% or better
Scheduled: 1 Block Fall / Spring

This course is designed to provide opportunities to apply geometric and measurement concepts to real world applications, to algebraic, statistical and probability models, and to make connections between concrete models and abstract concepts. This course will emphasize informal proofs and problem solving as well as integrating the review of Algebra 1 concepts. This course provides opportunities to:

* develop and apply properties of lines and angles
* develop and apply relationships between and among figures with emphasis on triangles, quadrilaterals and circles
* develop and apply the concepts of parallelism and perpendicularity
* develop and apply the concepts of congruency and similarity
* develop and apply the concepts of transformations
* develop and apply the concept of right triangle and trigonometry

Geometry (Advanced)

1 credit

Course number: 0221
Open to: Grades 9-12
Prerequisite: Algebra 1 with a passing grade on the final exam (75% or better) and a final grade of 80% or better OR consent of the teacher.
Scheduled: 1 Block Fall / Spring

Advanced Geometry is a vital course of mathematical study for those interested in a strong math and science future. This is the first high school mathematics course that offers students the opportunity to formally act as mathematicians. Within this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. This course is meant to employ an integrated approach to the study of geometric relationships. Integrating synthetic, transformational, and coordinate approaches to geometry, students will justify geometric relationships and properties of geometric figures. Congruence and similarity of triangles will be established using appropriate theorems. Transformations including rotations, reflections, and translations, as well as coordinate geometry will be used to establish and verify geometric relationships. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences.

Algebra 2

1 credit

Course number: 0235
Open to: Grades 10-12
Prerequisite: 75% or better on Algebra 1 final exam
Scheduled: 1 Block Fall / Spring

This course is an extension of Algebra 1, providing a more detailed analysis of operations with real numbers and polynomials. Topics of study include: functions and relations, matrices, right triangle trigonometry, linear functions, systems of linear functions, radicals in other bases and inequalities, quadratic functions, complex numbers, exponential and logarithmic functions. Additional topics of study may include: rational and irrational algebraic functions, higher degree functions, probability, sequences and series. A scientific or graphing calculator is required.

Algebra 2 (Advanced)

1 credit

Course number: 0231
Open to: Grades 10-12
Prerequisite: Teacher recommendation
Scheduled: 1 Block Fall / Spring

This course is an extension of Algebra 1 (Advanced), providing a more detailed analysis of operations with real numbers and polynomials, and will follow the same curriculum as Algebra 2. However, it will go into more depth and detail on each of the topics of study. A scientific or graphing calculator is required.

Precalculus

1 credit

Course number: 0245
Open to: Grades 10-12
Prerequisite: Algebra 2 with 70% or better OR consent of the teacher
Scheduled: 1 Block Fall / Spring

Topics covered in this course include trigonometry, analytic geometry, exponential and logarithmic functions, polynomial functions and their graphs. This course is preparation for a college general math course.

Precalculus (Advanced)

1 credit

Course number: 0244
Open to: Grades 10-12
Prerequisite: Algebra 2 Advanced with 80% or better OR consent of the teacher
Scheduled: 1 Block Fall / Spring

This course is designed for above average math students. Students will be expected to do longer and more difficult assignments and tests than in regular Precalculus. Topics covered include: trigonometry, analytic geometry, exponential and logarithmic functions, polynomial functions and their graphs, and sequences and series. Students will have regular practice in preparing for standardized tests (SAT and SAT II). This course is a preparation for the successful completion of high school AP calculus.

Introduction to Calculus

1 credit

Course number: 0240
Open to: Grades 11-12
Prerequisite: PreCalculus with 70% or better OR consent of the teacher.
Scheduled: 1 Block Fall / Spring

This course is designed for students who plan to take Calculus or beyond in college. Topics in Calculus include limits, continuity, derivatives, antiderivatives, integrals, trigonometric functions, exponential, and logarithmic functions. A graphing calculator is required. (Recommended models are TI 84)

Calculus 1 (Advanced Placement)

1 credit

Course number: 0241
Open to: Grade 11-12
Prerequisite: PreCalculus (Advanced) with 80% or better OR consent of the teacher.
Scheduled: 1 Block Fall

This course satisfies the Advanced Placement Calculus-AB curriculum consisting of all the requirements designed by the College Board and is equivalent to one semester of college level calculus and is devoted to the 3 Big Ideas: Limits, Derivatives and Integrals/Fundamental Theorem of Calculus. The topics will be presented in a variety of real world problems both from the textbook and released AP materials. Students need to achieve an Enduring Understanding of the concepts which are linked to Learning Objectives and Essential Knowledge designed by the College Board. The course emphasizes multiple approaches to calculus, with concepts and solutions being expressed with graphs, algebraically, tables and in narrative writing and/or verbal presentations.

Exam expectation: A student enrolling in this course will take the "AB" calculus AP exam in May. There will be an exam fee due at the beginning of the semester. Failure to take the exam will change the identification of the course on the transcript to read "Advanced" rather than "AP" and the grade value will be reduced from weighted to unweighted.

Calculus 2 (Advanced Placement)

1 credit

Course number: 0242
Open to: Grade 11-12
Prerequisite: Calculus 1 (Advanced Placement) with 70% or better
Scheduled: 1 Block Spring

This course covers the topics necessary for taking the Calculus AB Exam. Students will take an AP Calculus exam in May and then spend the remainder of the course working on advanced math projects.

Exam expectation: A student enrolling in this course will take the AP exam in May. There will be an exam fee associated with this course. Failure to take the exam will change the identification of the course on the transcript to read "Advanced" rather than "AP" and the grade value will be reduced from weighted to unweighted.

General Applied Math

1 credit

Course number: 0215
Open to: Grades 9-10
Prerequisite: Teacher recommendation only
Scheduled: 1 Block Fall / Spring

This course is designed to reinforce general math skills, extend these skills to include some pre-algebra and algebra topics, and use these skills in a variety of practical, consumer, business, and occupational applications. Course topics typically include rational numbers, measurements, basic statistics, ratio and proportions, basic geometry, formulas and simple equations.

Business Math (School Store)

1 credit

Course number: 0227
Open to: Grades 9-12
Prerequisite: Algebra 1 or Applied
Scheduled: 1 Block Fall / Spring

The goal of the course is to prepare students to become knowledgeable and ethical decision makers as they fulfill their roles as consumers, workers, and citizens. Students will practice the interpersonal, teamwork, and leadership skills that will help them function successfully in a business environment. The classroom will function as a store to provide students and staff with goods for purchase. Students will work to achieve organizational goals through planning, organizing, leading/directing, and evaluating/controlling a school store. Students will apply their knowledge of business to effectively run a small business.

Introduction to Engineering - Technical Math

1 credit

Course number: 0281 (math credit) / 1220 (elective credit)
Open to: Grades 10-12
Prerequisite: Algebra 1or Applied Math
Scheduled: 1 Block Fall / Spring

This course will extend students' proficiency in mathematics, and apply these skills to technical and/or industrial situations and problems. Technical Math topics may include but are not limited to rational numbers, systems of measurements, tolerances, numerical language, geometry, algebra, statistics, and using tables, graphs, charts, and other data displays. Students will learn the engineering design process while working independently and collaboratively in a course which will be project-based. Projects will include, but are not limited to, making CO2 cars, designing and printing spinning tops, designing and building of bird houses and bridges, etc. In many cases the the math process will be done similar to the reverse engineering process with the math learned after the project is completed or during the process. ***Student can take this class for either one math credit or one elective credit as Introduction to Engineering.***

Data Mining

1 credit

Course number: 0214
Open to: Grades 10-12
Prerequisite: Algebra 1
Scheduled: 1 Block Fall / Spring

Did you know that 90% of the data in the world was generated in the last two years? That's at 2.5 quintillion bytes of data a day! This course will help you access, analyze and present data from large data sets to find patterns and make predictions using the methodology CRISP-DM: Cross-Industry Standard Process for Data Mining. Student may mine and analyze data from our Weather STEM station, NOAA, apps, school related projects and/or student driven projects. Data will be processed in Excel or other statistical software package.

Statistics

1 credit

Course number: 0281
Open to: Grades 11-12
Prerequisite: Algebra 2 with 70% or better OR consent of the teacher.
Scheduled: 1 Block Fall / Spring

This course is a study of descriptive statistics, probability, and inferential statistics. Students will discover how to collect, measure, display and summarize all types of data. Through the use of probability and inferential concepts, students will find how to describe relationships and make predictions about their data. Applying statistics to real life applications will be the major focus of this course. Data analysis will utilize the graphing calculator (TI-83) and computer. Data analysis will utilize the graphing calculator (TI-83) and computer software. This course can be taken for college credit through dual enrollment with the Community College of Vermont.

Computer Programming

1 credit

Course number: 0285
Open to: Grades 10-12
Prerequisite: Algebra 1 with 70% or better OR consent of the teacher.
Scheduled: 1 Block Fall / Spring

Computer Programming is an introduction to programming using the Visual Basic (Beginners All-purpose Symbolic Instruction Code) programming language. After gaining an understanding of the history of computing, programming concepts covered include input, processing, output, loops, conditional statements, functions, subroutines and arrays. The focus of the course will be to code everyday programs like payroll, cash registers, ATM's and simple games. Students can advance at their own pace. Students who can work independently, can apply their understanding of the basic concepts to other languages such as C++ or RPG game engines.

While this class is taught at the "standard" level, students will have the opportunity to re-enroll for the "advanced" credit by learning a new language independently. Advanced students will learn a higher level language such as C++ or JAVA and may prepare for the AP exam.

The Eye: Math

1 credit

Course number: 0996 - Math
Open to: Grades 10-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Please refer to the Independent Study course description on page 50.

Performing Arts Courses

Concert Choir

1 credit

Course number: 1015
Open to: Grades 9-12
Prerequisite: Open to any student who enjoys singing
Scheduled: During H Block **Full Year**

The Hartford High Concert Choir presents and encourages music performance at Hartford High School. Concert Choir is open to all qualified students in Grades 9-12. Vocal screening assessment will take place each year for all students in chorus. The Concert Choir studies music from many different historical periods, presenting diverse musical styles and genres. Dedication to the improvement of individual and group skills and musical knowledge is essential to participate in concert choir, and individual practice outside of rehearsal is expected. Students will be expected to perform assignments regularly with emphasis on sight reading. Students are eligible to represent Hartford High School through music festivals at the district, state, and regional levels. All students are welcome. ***While this course is taught at the "standard" level, students will have the opportunity to earn an "advanced" credit by applying to do so through the teacher.***

Concert Band

1 credit

Course number: 1020
Open to: Grades 9-12
Prerequisite: Open to any student who can demonstrate, or is willing to work towards, an intermediate level of playing ability.
Scheduled: During H Block **Full Year**

The Hartford High School Concert Band presents and encourages music performance at Hartford High School. Concert Band is open to all qualified students in grades 9-12 who play woodwind, brass, or percussion instruments. The Concert Band performs music from many different historical periods, presenting diverse musical styles and genres. Dedication to improvement of individual and group skills and musical knowledge is essential to participate in Concert Band, and individual practice outside of rehearsal is expected. Students will be expected to perform assignments regularly with emphasis on rhythm reading and producing an appropriate tone. Members of the band attend weekly small-group music instruction through a pull-out lesson program. All band members are encouraged to participate in pep band. Students are eligible to represent Hartford High School through music festivals at the district, state, and regional levels. All students are welcome. ***While this course is taught at the "standard" level, students will have the opportunity to earn an "advanced" credit by applying to do so through the teacher.***

Concert Choir / Band

1 credit

Course number: 1025
Open to: Grades 9-12
Prerequisite: See 1015 and 1020
Scheduled: During H Block **Full Year**

Concert Choir/Band allows students to participate in both Band and Choir. Students, who elect to do so, take on the work and responsibility of both groups. Class time is divided between Band and Choir. ***While this course is taught at the "standard" level, students will have the opportunity to earn an "advanced" credit by applying to do so through the teacher.***

Broadway Performance 1

1 credit

Course number: 1073
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

"Start spreading the news because this is one singular sensation of a course." This course will explore all aspects of Broadway Performance. Students will explore the history of musical theater and address the unique challenges of the Broadway performer through work with scenes, ensemble, small group, and solo songs, characterizations, and choreography. Students who have never sung and/or acted before are more than welcome to join the class. ***While this course is taught at the "standard" level, students will have the opportunity to earn an "advanced" credit by applying to do so through the teacher.***

Broadway Performance 2

1 credit

Course number: 1069
Open to: Grades 9-12
Prerequisite: Broadway Performance 1
Scheduled: 1 Block Fall / Spring

This course will be a continuation of Broadway Performance 1. Students will direct and block their own scenes and choreograph and teach their own dances. Students will perform scenes, solos, duets, small ensemble numbers, and large group dances. During this class we will continue exploring various musicals throughout the decades and discuss various changes that have occurred over the years to make the Broadway musical what it is today. ***While this course is taught at the "standard" level, students will have the opportunity to earn an "advanced" credit by applying to do so through the teacher.***

Dance and Movement

1 credit

Course number: 1060
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

In this class, we will experience various styles of dance forms and expression through movement. Throughout this class we will explore movement elements by learning basic techniques from various dance genres and styles. Alternative forms of movement, such as yoga or martial arts, may also be explored. No previous dance or movement experience is needed.

Guitar 1

1 credit

Course number: 1065
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring Every other year

Have you ever wanted to learn how to play your favorite song on the guitar? This course is designed for students who have little no experience playing the guitar. Throughout the semester, students will read and play all types of chords from major/minor to barre/power chords, practice different strumming patterns, and explore techniques of improvising solo licks.. Students will also be exposed to musical notation and basic music theory. As a class, we will work on a variety of solo and ensemble pieces in an assortment of musical genres. Guitars will be provided.

Guitar 2

1 credit

Course number: 1066
Open to: Grades 9-12
Prerequisite: Guitar 1 with a C or better OR consent of the teacher.
Scheduled: 1 Block Fall / Spring Every other year

This course is an extension of Guitar 1. Throughout this course students will expand upon their knowledge of the fretboard and guitar techniques. We will read and play more advanced chords and be exposed to upper level music theory and rhythmic notation. Students will have the opportunity to improvise and compose their own melodies/pieces.

Hip-Hop Comp.

1 credit

Course number: 1029
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Create your own music. Record your own raps. Lay down your own beats. In this class you will be working in the Music Technology Lab creating your own hip-hop compositions using Studio One Software with ATOM Launch Pads. This class will help you create and shape layers of sound using different sampling techniques as used in today's hip-hop music industry. By the end of the semester, you will have your own portfolio of hip-hop compositions.

Music Theory (Advanced)

1 credit

Course number: 1076
Open to: Grades 9-12
Prerequisite: Prior music reading experience highly recommended
Scheduled: 1 Block Fall / Spring Every other year (next offered 2021-2022)

Music not only provides a way for students to express themselves artistically, but also enhances intelligence and creativity. This course is designed to help the more serious music student learn the elements of musicianship necessary for becoming a mature advanced level musician. Students will study the language and symbols of music beginning with the construction of major and minor scales, the circle of fifths, interval training, chord construction and analysis, chord recognition, musical notation, four-part writing, and aural skills. Due to the amount of material that is covered, previous music reading experience is highly recommended. This course is taught at an advanced level.

World Drumming

1 credit

Course number: 1078
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course is all about drumming! Every culture on the planet has some form of drumming, and this course will offer a hands-on exploration of various drumming and rhythm traditions. In this class we will play various percussive instruments such as: djembes, tubano, talking drums, buffalo drums, and other assortments of hand percussion. Throughout this course students will experience music of African, Caribbean, and Latin American cultures. No previous music experience is needed to take this class. All skills will be taught in the class through traditional call and response and aural learning. All instruments will be provided for use. Nothing "beats" this!

The Eye: Music

1 credit

Course number: 0996 - Music
Open to: Grades 10-12
Prerequisite: Must have previously taken a regular Music elective
Scheduled: 1 Block Fall / Spring

Please refer to the Independent Study course description on page 50.

Physical Education Courses

Competitive Team Sports / Games

1 credit

Course number: 0501
Open to: Grade 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course provides students with the opportunity to participate in several team-based sports/games with a high level of intensity. The involvement in specific sports will provide an atmosphere that is competitive, while promoting communication and collaboration among peers. Students will also gain an appreciation for the degree of fitness necessary to participate in these different sports. Units may include; soccer, volleyball, speedball, flag football, kin-ball, ultimate frisbee, floor hockey, and others.

Recreational and Leisure Sports / Games

1 credit

Course number: 0505
Open to: Grade 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course is designed to provide opportunities for the students to elect individual and team activities that have carryover value associated with them. These lifetime activities allow for mixed grade, co-educational participation and will provide a variety of life and leisure time offerings. The course objectives include assisting students in the development of physical fitness and motor ability; aiding the student's physical, mental, and social growth; and offering activities which facilitate meeting these objectives. Activities may include: Tennis, Bowling, Badminton, Table Tennis, Snow Shoeing, Pickleball, bocce ball, croquet, horseshoes, Frisbee golf, Corn hole, etc.

Low Impact Fitness Class

1 credit

Course number: 0511
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This class is specifically designed to meet the needs of the students who do not enjoy competitive team sports. The class focus will be on full body low impact exercise. Endurance walking, Yoga and Barre exercises will be emphasized. Our goal is to increase endurance and create healthy lifestyle changes. This course will have a lower impact and intensity than the Life time fitness course.

Lifetime Fitness

1 credit

Course number: 0515
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course is designed to provide an opportunity for students to develop individualized fitness plans. Students will learn the fundamentals of strength, aerobic, and overall fitness training. An emphasis will be placed on an array of lifelong fitness activities. A true lifelong, personal comprehensive fitness plan will be developed as a result of this course. This course is higher impact with more intense cardio than the Low Impact Fitness Class.

Personal Fitness

1 credit

Course number: 0599
Open to: Grades 11 and 12
Prerequisite: 1 3/4 credit in a required Fitness class.
Scheduled: 1 Block Fall / Spring

Personal Fitness is designed to give students the opportunity to learn a variety of fitness concepts and conditioning techniques used for obtaining optimal physical fitness. This course includes active workout/ exercise sessions aimed to enhance the fitness capacity of it's participants. Students will benefit from comprehensive total body training and conditioning with a specific focus on the 10 components of fitness: cardiovascular/respiratory endurance, stamina, strength, flexibility, power, speed, coordination, agility, balance, and accuracy. Students will have the opportunity to explore a variety of approaches to enhance their physical and mental performance in the elements of exercise, nutrition, sleep, relational connections, and mindset. Students will strive to implement the course content into their daily lives in a quest to achieve specific goals.

Wellness

½ credit

Course number: 0701
Open to: Grade 9
Prerequisite: None (This is a required course for all entering 9th graders at Hartford High School and must be repeated if a passing grade is not earned.)
Scheduled: 1 Block / 1 Term Fall / Spring

The focus of the Wellness portion of this course is on the physical, social and emotional aspects of health. Students will research their family's health history in regard to disease prevention. Students will set personal wellness goals in areas of nutrition and fitness. The following topics will also be covered: human sexuality, relationships, substance abuse prevention, and communication skills. As part of the human sexuality unit students will have the opportunity to take care of a "Real Care Baby", a computerized baby simulator. In addition, students will learn how the media influences our choices and behaviors in each of these topics. Guest speakers and videos are used to enhance the curriculum when possible. **Students are graded on class participation, projects, tests, and homework.**

Personalizing Your High School Experience

½ credit

Course number: 0702
Open to: Grade 9
Prerequisite: None (This is course will be taken the opposite term of Wellness.)
Scheduled: 1 Block / 1 Term Fall / Spring

Each and every Hartford student will have a different, unique, and personalized path through our school. Students will develop their Personalized Learning Plan (PLP) during Personalizing Your High School Experience. Students will engage in activities designed to support their understanding of setting goals that are specific to their dreams and the creation of a living PLP that will allow them to drive their learning throughout their high school career.

Science Courses

The Science Department offers a variety of courses preparing students for Vermont's High School Grade Expectations which reflect the standards of the Vermont Framework of Standards and Learning Objectives. Science courses also offer numerous inquiry-based activities and concepts that reflect both Vermont state and national (NGSS) standards. Out of the 3.0 science credits required to graduate from Hartford High School one must be a physical science and one must be a biology. The department highly recommends that the required 3.0 graduation credits include a physical science, biology, and chemistry and are completed by the end of their junior year without having a year in which no science course is taken.

Earth & Space Science

1 credit

Course number: 0315
Open to: Required for Grade 9 but open to Grades 10-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Earth & Space Science (ESS) is an introductory laboratory-based, hands-on course which develops understanding of a wide range of topics that build upon science concepts from middle school through more advanced content and skill. There are five (5) topics in ESS: Cosmology, Meteorology, Oceanography, Geology, and Human Sustainability. The hands-on component of this course involves experimental gathering, analyzing, and interpreting data to understand evidence in support of scientific knowledge. Emphasis is placed on using engineering and technology to design solutions to challenges facing human society. This course will fulfill the physical science graduation requirement.

Advanced credit may be earned in ESS for students who are highly motivated and have excellent time management skills. Advanced students choose which of the 5 ESS topics to investigate further by researching and/or conducting original experimental projects to be presented at Exhibition Night. The opportunity for students pursuing an advanced credit will be rigorous, challenging, and require extra time outside of the regular class.

Principles of Earth and Space Science may be embedded in an ESS section on the recommendation of the 8th grade teacher and special educator with consent of the high school math and science dept. coordinators. This course covers the same content as Earth & Space Science but is designed for students who will receive an individualized, content-rich course tailored to meet their specific needs. It will also build the academic skills necessary for each student to experience academic growth and success. This course will fulfill the physical science graduation requirement.

Biology: Exploring Life Science

1 credit

Course number: 0325
Open to: Grade 10-12
Prerequisite: Earth & Space Science
Scheduled: 1 Block Fall / Spring

Biology takes a an integrated approach to align with the Vermont State Standards, and NGSS targets. Major units of study include Inquiry Based Science, Characteristics of Living Organisms, Cell Structure and Function, Energy Transfer in Living Systems, Heredity, and Descent with Modification. Course delivery includes differentiated opportunities through lecture, reading, multimedia presentations, interactive simulations, and inquiry based activities and labs. Laboratory analysis provides opportunities for application of concepts and is a focus of this class. Emphasis will be placed on the correct use of biological tools such as microscopes, graphic analysis, and scientific writing. Biology builds on the chemical content in Earth & Space Science. This course will fulfill the biology graduation requirement.

Biology (Advanced)

1 credit

Course number: 0321
Open to: Grades 9-10
Prerequisite: None.
Scheduled: 1 Block Fall / Spring

Advanced biology is a rigorous course that freshmen are recommended to participate in. It is designed for the highly motivated student who has good time management skills and completes work outside of class. This one-semester course utilizes an inquiry-based lab approach. This course will focus on four major areas of biology; structures and processes of molecules and organisms, the interactions of chemicals and energy within ecosystems, the inheritance and variation of traits and biological evolution. This course will be taught with the Next Generation Science Standards, with many cross-cutting concepts to other domains and the scientific practices of argumentation with evidence and communicating obtained information highlighted. This course will fulfill the biology graduation requirement.

AP Biology 1 (Advanced Placement)

1 credit

Course number: 0351
Open to: Grades 10-12
Prerequisite: Advanced Biology. Algebra 2 or its equivalent (may be taken concurrently) is recommended.
Scheduled: 1 Block Fall

AP Biology is an advanced placement course. AP Biology is designed to challenge highly motivated students wishing to prepare themselves for the academic rigors of college. This intensive program is particularly well suited, although not limited to, those students who wish to pursue professional careers in biology, chemistry, bioengineering, medicine, nursing and other allied health fields. Any interested and motivated student, including those who do not typically view themselves as "AP" students, should be encouraged to attempt AP Biology. Upon the successful completion of both semesters, the student is eligible to take the AP exam in biology for college credit. The topics studied: biochemistry, cell metabolism, photosynthesis, immunology, genetics, gene engineering, water relations, bioinformatics, cancer, population biology, and evolution are those topics which are in the forefront of modern molecular and cell biology. Exam expectation: A student enrolling in this course will take the AP exam in May. There will be an exam fee associated with this course.

Students enrolled in an AP course are expected to take the AP exam in the spring as part of the course requirements. Failure to take the exam will change the identification of the course on the transcript to read "Advanced" rather than "AP" and the grade value will be reduced from weighted to unweighted.

AP Biology 2 (Advanced Placement)

1 credit

Course number: 0352
Open to: Grades 10-12
Prerequisite: AP Biology 1 with a C- or better
Scheduled: 1 Block Spring

AP Biology 2 is a continuation of AP Biology 1. Topics not covered in semester I will be completed in this semester. Upon the successful completion of this entire course, the student will take the AP biology exam for college credit where accepted.

Students enrolled in an AP course are expected to take the AP exam in the spring as part of the course requirements. Failure to take the exam will change the identification of the course on the transcript to read "Advanced" rather than "AP" and the grade value will be reduced from weighted to unweighted.

Energy & Matter: Project-based Conceptual Physical Science

1 credit

Course number: 0323
Open to: Grades 10-12
Prerequisite: Successful completion of 2 science credits
Scheduled: 1 Block Fall / Spring

This course is a hands-on elective for students who have yet to take a physical science course or for those who have taken physics and/or chemistry and would like to explore these topics further. This course will investigate topics where physics and chemistry overlap such as polymer formation and behavior, electroplating, and amorphous solids. Additional units and projects may include catapults and trebuchets, forging aluminum, forming alloys, bungee cord theory, design and build boomerangs, design and build kaleidoscopes, making mirrors, and others. There will be an emphasis on meeting the NGSS engineering standards. This course will fulfill the physical science graduation requirement. ***An advanced option will be available to students who are interested.***

Chemistry

1 credit

Course number: 0333
Open to: Grades 10-12
Prerequisite: Earth & Space Science or Advanced Biology or Biology, and Algebra 1
Scheduled: 1 Block Fall / Spring

This course provides a general foundation for the technical or college bound student. Considerable reliance is placed on laboratory work so that chemical principles are drawn directly from student observation. This course will enable students to better understand: history of chemistry, measurement and data analysis, atomic structure and theory, electrons in atoms, periodic table and periodic law, elements, states of matter and their properties and changes, ionic and covalent bonding and compounds, chemical reactions, the mole, acids and bases, reaction rates, and the chemistry of life. Chemistry requires strong math manipulation skills, particularly algebra. Students may use this course to fulfill the physical science graduation requirement.

Chemistry (Advanced)

1 credit

Course number: 0336
Open to: Grades 10-12
Prerequisite: Adv. Biology & Algebra 1 with a grade of 83 (B) or higher in all previous sci. & math courses
Scheduled: 1 Block Fall / Spring

Chemistry (Advanced) is designed to challenge highly motivated students wishing to prepare themselves for the academic rigors of college. This course is particularly well suited for students interested in pursuing science careers (chemical engineering, biochemistry, water resources, environmental science, allied health, etc.) and/or related technologies. Chemistry (Advanced) is designed to begin developing the chemistry background necessary for students wishing to continue their chemistry studies by enrolling in Advanced Topics in Chemistry. Chemistry (Advanced) will examine topics at the foundational level in preparation for the more detailed and challenging work to follow in Advanced Topics in Chemistry. Chemistry (Advanced) will be taught at a rapid pace. Considerable reliance is placed on laboratory work so that chemical principles are drawn directly from student observation. This course will enable students to understand the foundations of: atomic structure, electronic structures, periodic table, chemical nomenclature, chemical properties and bonding, chemical reactions and stoichiometry, gases, solutions, kinetics and equilibria, and acids and bases. Note: A student who fails Chemistry (Advanced) or drops the course before the end of the first quarter may take Chemistry. Students may use this course to fulfill the physical science graduation requirement.

AP Chemistry 1 (Advanced Placement)

1 credit

Course number: 0326
Open to: Grades 11-12
Prerequisite: Chemistry (Advanced), one Biology credit, and Algebra 2 or its equivalent (may be taken concurrently) with grades of B (83) or higher in all science and math courses.
Scheduled: 1 Block Fall

This course is designed to further challenge highly motivated students wishing to prepare themselves for the academic rigors of college. Any interested and motivated student who has completed Chemistry (Advanced), including those who do not typically view themselves as "AP" students, are encouraged to attempt AP Chemistry. This course is particularly well suited for students interested in pursuing science careers (medicine, nursing, chemical engineering, biochemistry, water resources, environmental science, allied health, etc.) and/or related technologies. This course will be rigorous, detailed, and presented at a fast pace. AP Chemistry 1 will examine topics not covered in Chemistry (Advanced) and will expand upon many topics previously covered in Chemistry (Advanced). Laboratory exercises and experiments will not only direct the progression of topics to be covered in this course but will be rigorous and similar to that of a typical college course. Topics covered in AP Chemistry are necessary to further prepare students for the rigors of college science courses beyond the general level.

Exam expectation: A student enrolling in this course will take the AP Chemistry exam in May. There will be an exam fee associated with this course.

Students enrolled in an AP course are expected to take the AP exam in the spring as part of the course requirements. Failure to take the exam will change the identification of the course on the transcript to read "Advanced" rather than "AP" and the grade value will be reduced from weighted to unweighted.

AP Chemistry 2 (Advanced Placement)

1 credit

Course number: 0327
Open to: Grades 11-12
Prerequisite: AP Chemistry 1 with a C or better
Scheduled: 1 Block Spring

This course is a continuation of AP Chemistry 1. Topics not covered in AP Chemistry 1 will be completed in this semester and units including organic chemistry and biochemistry will be expanded upon and/or introduced. Upon successful completion of this course students will take the AP Chemistry exam for college credit where accepted.

Students enrolled in an AP course are expected to take the AP exam in the spring as part of the course requirements. Failure to take the exam will change the identification of the course on the transcript to read "Advanced" rather than "AP" and the grade value will be reduced from weighted to unweighted.

Physics 1

1 credit

Course number: 0341
Open to: Grades 10-12
Prerequisite: C+ or better or concurrent enrollment in Algebra 2
Scheduled: 1 Block Fall / Spring

This course is designed for the technical or college-bound student with an interest in science. In Physics 1 students will explore the following major topics: Kinematics, Forces, Energy, Momentum, Heat, Electricity, Magnetism, and Waves. Lectures are limited in this course with students learning primarily by performing experiments, observing demonstrations, and participating in problem-solving activities. Lab work and quantitative analysis are emphasized throughout the course. While this course is taught at the "standard" level, students will have the opportunity to earn an "advanced" credit by applying to do so through the teacher and department chair. Students may use this course to fulfill the physical science graduation requirement.

Physics 2 (Advanced)

1 credit

Course number: 0342
Open to: Grades 10-12
Prerequisite: Successful completion of Physics 1 (with a B or better)
Scheduled: 1 Block Spring

This course is designed for the technical or college-bound student with an interest in science. In Physics 2 (Advanced) students will return to portions of the major topics from Physics 1 including Kinematics, Forces, Energy, Momentum, Heat, Electricity, Magnetism, and Waves for greater in-depth study. In addition, students will explore Rotational Motion, Torque, Fluids, Pressure, and Nuclear Physics. Lectures are limited in this course with students learning primarily by performing experiments, observing demonstrations, and participating in problem-solving activities and engineering design challenges. Lab work and quantitative analysis are emphasized throughout the course.

Environmental Science

1 credit

Course Number: 0354
Open to: Grade 10-12
Prerequisite: 2 Science credits (Must include a physical science and a biology)
Scheduled: 1 Block Fall / Spring

This course will examine Vermont's environment and the ways humans impact it. Students will learn methodologies scientists practice to understand the interrelationships of the natural world. Lessons will focus on identifying and analyzing natural and human-made environmental problems and students will evaluate risks associated with these problems to evaluate alternative solutions for resolving and/or preventing them. This course will include numerous opportunities for project-based learning including testing different soil horizons for chemical content, collecting data on stream health in local bodies of water, working on developing sustainable practices for the school, and practicing citizen science in the community. Students in this course will work closely with local businesses, non-profits and educational institutions to develop projects that will positively impact the local environment. Field trips and field research will be incorporated into the course curriculum as well as opportunities to collaborate with other schools to gain a more global perspective on a diversity of environments and ongoing environmental change.

Anatomy and Physiology

1 credit

Course number: 0334
Open to: Grades 11- 12
Prerequisite: 2 Science credits & Teacher Recommendation
Scheduled: 1 Block Fall / Spring

This course will introduce students to the basic principles of human anatomy and physiology. Students will use creative, hands-on instruction to further their knowledge of their bodies and health. Students will explore the major systems of the body using models, investigations, multimedia presentations, and interactive simulations. Regular dissection and analysis of human health is a part of the delivery of this course. This course is offered subject to enrollment and will ***not*** fulfill the biology graduation requirement.

The Eye: Science

1 credit

Course number: 0996 - Science
Open to: Grades 10-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Please refer to the Independent Study course description on page 50.

Social Studies Courses

To graduate from Hartford High School, a student must have 3 credits of Social Studies.

****** Freshmen: Students in Grade 9 have the option to take Topics in the Social Sciences (Foundational) or Global Issues.**

Topics in the Social Sciences (Foundational)

1 credit

Course number: 0165
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course is designed to present students with information that they will use in their lives during and after school. Topics of study are:

* Economics (Personal Finance)
* Justice in America
* World Geography and Cultures
* Government / Civics

Each of these 4-week units is designed to meet the needs of the individual student; instruction will be highly differentiated, students will move through the topics at their own pace. Each topic will culminate with a project. This course is offered to address the student who struggles to see the relevance in their social studies classes and wonders; "Why do I need to know this?" *This course is taught at the foundational level.*

Global Issues

1 credit

Course Number: 0115
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course is meant to serve as a broad overview of the modern world and the challenges it faces. Global Issues begins with an introduction to the different people, religions, governments, regions, and economies found around the globe today. It then takes an in-depth look at the global economy, conflicts around the world, and quality of life experienced by people in various countries. This class emphasizes the development of fundamental academic and personal skills required for success throughout high school and beyond. Specifically, this course will emphasize research, writing, presenting and collaboration with peers. The course culminates in a semester-long project in which students investigate a global issue of their choosing and seek to make an impact in the world they live in.

While this course is taught at the standard level, students will have the opportunity to earn an advanced credit by applying to do so through the teacher and department chair. Upon teacher and guidance counselor recommendation, a student can be placed in a foundational skills section within this class.

****** Sophomores or Juniors: All students in Grade 10 or Grade 11 are required to take either U. S. History or Scholars of U. S. History (Advanced).**

US History

1 credit

Course Number: 0125
Open to: Grades 10-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course provides a general survey of U.S. History. The primary focus is upon the social, economic, and political developments which took place after the 1900's. Citizenship skills are incorporated into the basic objectives of this course. At the option of the teacher, mini-units of concentration may also be included.

While this course is taught at the standard level, students will have the opportunity to earn an advanced credit by applying to do so through the teacher and department chair. This option would entail a meeting with the teacher or Department Chair once a week during an H-block segment and most likely writing document based papers. Upon teacher and guidance counselor recommendation, a student can be placed in a foundational skills section within this class.

Scholars of US History (Advanced)

2 credits

Course number: Scholars of US History 1 (A) 0122 / Scholars of US History 2 (A) 0123
Open to: Grades 10-12
Prerequisite: None
Scheduled: 1 Block **Full Year**

Designed for the advanced student, this course will survey the entire history of the United States in great depth. Students must have above average skills in reading and writing as the pace will be accelerated. This challenging full year course will prepare students to take the SAT II Achievement Test.

Development of Western Civilization (Advanced)

1 credit

Course number: 0161
Open to: Grades 11-12
Prerequisite: **1** credit in US History
Scheduled: 1 Block Fall / Spring

This course involves a survey of the history and culture of the Western World from the Mediterranean civilizations to the Renaissance. This course will provide the student with information that will be needed in many college level social science courses. This is a higher level course, requiring average to above average skills in reading comprehension and writing. This course is a must for students considering any of the Social Sciences in college (i.e. Anthropology, Sociology, History, Political Science, Archeology). This course will emphasize research, writing, presenting and collaboration with peers.

Modern European History (Advanced)

1 credit

Course number: 0171
Open to: Grades 11-12
Prerequisite: **1** credit in US History
Scheduled: 1 Block Spring

This course concentrates on Western Europe's modern political, social, and economic development. This course will span from the Protestant Reformation to present day Europe. This is a higher-level course, requiring average to above average skills in reading comprehension and writing. This course is a must for students considering any of the Social Sciences in college (i.e. Anthropology, Sociology, History, Political Science, Archeology). This course will emphasize research, writing, presenting and collaboration with peers.

Contemporary Social Problems

1 credit

Course number: 0188
Open to: Grades 11-12
Prerequisite: **1** Social Studies credit
Scheduled: 1 Block Fall / Spring

This course will examine and analyze a wide variety of topics related to social issues in America with a focus on issues impacting adolescents. Some of the topics covered in this course include: the structure of the American government (Federal and State levels), the American legal system, American culture, substance abuse/recreational pharmaceutical use, American High School culture, social classes and the American Dream, relationships, minorities, the American Education system, and more based upon students' interests. Students will be required to research various issues, work independently and in groups, and regularly participate in class discussions. ***While this class is taught at the standard level, students will have the opportunity to earn an advanced credit by applying to do so through the teacher and Department Chair.***

Gender Studies

1 credit

Course number: 0145
Open to: Grades 11-12
Prerequisite: **1** credit in US History or Scholars of US History (A)
Scheduled: 1 Block Fall / Spring

How has gender impacted society, and subsequently history? Gender Studies is designed to find the answer to this question. The course will be a combination of studying historical events and persons, as well as an examination of what being "male" or "female" means in different societies, past and present. We will also celebrate the accomplishments of influential women and examine contemporary issues related to gender. Students will be asked to complete independent research assignments, participate in class discussions, articulate their opinions, complete independent and group projects, and read short stories/articles for analysis. ***While this class is taught at the standard level, students will have the opportunity to earn an advanced credit by applying to do so through the teacher and Department Chair.***

Genocidal Studies

1 credit

Course number: 0174
Open to: Grades 11-12
Prerequisite: **1** Social Studies credit
Scheduled: 1 Block Fall / Spring

This course will study the history of genocide from the early 1930's to present day. It will include an extensive study of the Holocaust and its causes as well as post WWII genocides including: Cambodia, Bosnia, Rwanda and Sudan. This course will look at discrimination and intolerance and how it fuels hatred and the destruction of groups of people. This course emphasizes critical thinking, analytical reading, writing, group discussion and self reflection. ***While this class is taught at the standard level, students will have the opportunity to earn an advanced credit by applying to do so through the teacher and Department Chair.***

Vermont Studies

1 credit

Course number: 0173
Open to: Grades 11-12
Prerequisite: **1** credit in US History
Scheduled: 1 Block Fall / Spring

Vermont has a colorful and interesting past that has, and continues to define Vermonters: from Ethan Allen and the Green Mountain boys to the "mountain rule"; Vermont is a unique place to live. This course will look at how the history and geography of Vermont have shaped the way Vermonters have viewed themselves and how others have viewed them. We will look at the politics, culture, and social characteristics that make up Vermont. This class will include a variety of trips to local sites and have guest speakers in order to fully immerse students in what Vermont is and help develop a clear understanding of the past. In addition to reading literary works, students will be required to actively engage in Vermont history through involvement in local historical societies. ***While this course is taught at the standard level, students will have the opportunity to earn an advanced credit by applying to do so through the teacher and department chair. Upon teacher and guidance counselor recommendation, a student can be placed in a foundational skills section within this class.***

Justice

1 credit

Course number: 0143
Open to: Grade 11-12
Prerequisite: 1 credits in US History
Scheduled: 1 Block Fall / Spring

Virtues, ethics, values, fairness, right, and wrong. What exactly is justice? This class aims to explore that question by combining elements of civics, law, criminal justice, and philosophy in the pursuit of an understanding of justice in America. We will consider many questions including: what rights do people have? How should criminals be punished? What makes a law just? Is everyone treated fairly in the United States? Students should be prepared for a lot of reading, writing, and class discussion, as well as interactive activities such as a mock trial and a citizenship project. ***While this class is taught at the standard level, students will have the opportunity to earn an advanced credit by applying to do so through the teacher and Department Chair.***

Psychology (Advanced)

1 credit

Course number: 0148
Open to: Grade 12
Prerequisite: **2** Social Studies credits *(One of which must be taken at the advanced level)*
Scheduled: 1 Block Fall / Spring

This course is divided into two sections. The first half of the semester is spent studying the history of Psychology, Psychologists of the 18th-21st centuries, human development, “normal” behaviors, and mental functioning. The second half of the semester is spent studying “abnormal” human behavior, and psychological disorders, and Psychology in the 21st century.

Throughout the semester we will be examining many aspects in the field of Psychology. We will be looking at the definition of Psychology, the brain and how it functions (or does not function), human and animal behavior, some very influential people who have contributed to the field of Psychology, motivation and emotions, intelligence and different states of consciousness. We will also study specific mental disorders, medications used to treat disorders, how psychological illnesses affect individuals and their relationships, and what YOU can do with or for someone who is suffering from a psychological disorder.

This course is designed to be college like in rigor, independence, and responsibility. Students must complete their work thoroughly and timely. There is an expectation that students will be completing work outside of the classroom, and/or preparing papers and projects for completion.

Economics and You

1 credit

Course number: 0131
Open to: Grades 11-12
Prerequisite: 1 credit in US History or Scholars of US History (A)
Scheduled: 1 Block Fall / Spring

Should I invest in the stock market? How do I do my taxes? Do people always make rational decisions? What is inflation? How do I start my own business? Do I really need car insurance? These are questions that the study of economics aim to answer. This course will introduce students to the concepts of supply and demand, incentives, entrepreneurship, and many more. Areas covered will include personal finance topics such as taxes, budgeting, and investing, as well as economic issues such as supply and demand and starting a business. A heavy emphasis will be placed on the application of skills and knowledge to students’ own lives. This course could save you thousands of dollars over your lifetime! ***While this class is taught at the standard level, students will have the opportunity to earn an advanced credit by applying to do so through the teacher and Department Chair.***

Conflict, Chaos and Counterculture

1 credit

Course number: 0132
Open to: Grades 11-12
Prerequisite: 1 credit in US History or Scholars of US History (A)
Scheduled: 1 Block Fall / Spring

This course is a study of Modern American history from the end of WWII to the present day. The course will focus on military conflicts, Civil Rights, equality, political issues as well as technology and inventions since World War II. An emphasis will be placed on the United States' role in the world as a result of these topics as well as counterculture that develops. This course will use literature, music and film to interpret the importance of the our most recent history. This class will require reading, writing and class participation! ***While this class is taught at the standard level, students will have the opportunity to earn an advanced credit by applying to do so through the teacher and Department Chair.***

Connect, Create & Cultivate: History

1 credit

Course number: 0160
Open to: Grades 11-12
Prerequisite: 1 credit in Social Studies
Scheduled: 1 Block Fall / Spring

Who created ART? What does ART look like? Why does ART exist? In this course we will make Art and look at ART through cultural, historical and creative perspectives. We will examine a vast array of artistic creations from all over the world and use historical content to analyze these creations; when, where, why, and how were these creations made? Students will be active participants in this course with research and studio art projects. Some examples of what we will examine are: Prehistoric Era, Body Art, Creations for the Illiterate, Photography and Motion Picture, and Artistic Creations in Cuisine.

Improving Hartford

1 credit

Course number: 0162
Open to: Grades 11-12
Prerequisite: 1 credit in Social Studies
Scheduled: 1 Block Fall / Spring

Students in this course will use writing, collaborative, communication, and other skills in order to identify a pressing need in their community, propose an evidence based solution to that need, and ultimately to implement their solution. We will work with stakeholders in both the school, town, and state community to determine which supports and resources we'll need to utilize in the implementation of our solution. Students will consistently apply practical, real-life skills (professional, academic, and hands-on) in class, and will have full choice over the solution that we pursue.

The Eye: Social Studies

1 credit

Course number: 0996 - Soc Studies
Open to: Grades 10-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Please refer to the Independent Study course description on page 50.

Technology Courses

3D Modeling & Printing Technologies

1 credit

Course number: 1216
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Turn your ideas into reality. By using the 3D modeling CAD(computer aided design) software SketchUp, learn to create both assigned and original designs. Once your design is complete, learn how to take that design and convert into a 3D printed model using plugins and a Makerbot 3D printer. Following your design from model to print will allow you to go through real-world problem solving and optimization applications in order to see your vision become a reality.

3D Modeling & Printing Technologies (Advanced)

1 credit

Course number: 1219
Open to: Grades 10-12
Prerequisite: 3D Modeling & Printing Technologies or teacher recommendation.
Scheduled: 1 Block Fall / Spring

Taking the skills mastered in 3D Modeling & Printing Technologies, using SketchUp and Makerbot Desktop learn to take your 3D designs to the next level. Learn how to reverse engineer items and take them from finished products to 3D designs then redesign them to make something new or better. The primary focus of this course will be to complete high quality 3D prints for use or for prototyping and create tutorials for future use. You will also learn how to take your SketchUp model and send those designs to our laser cutter or CNC router to turn your prototype into a usable product.

Digital Research and Design

1 credit

Course number: 1217
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Using computer software and apps such as iMovie, YouTube, Docs, Sites, Slides, SketchUp, Prezi, etc., learn to research a topic and create an original digital presentation to showcase your ideas. Some of your exciting research and design projects will include website design, video creation, video game review/walkthrough, write, direct, film, and edit your own movie. Students will also have the chance to build robots, build or maintain a bicycle and 3D print. This course will give you the basics you need to be able to convey your research, ideas and information in a way that can reach the online digital world. Students enrolled in this course can choose to earn either a Social Studies or Technology credit.

Digital Media and Student News

1 credit

Course number: 1221
Open to: Grades 10-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

In this course, students will team to produce a bi-weekly news broadcast program focused on Hartford High School. Students will learn how to use technology, including video cameras, microphones, and editing software to shoot and edit video stories, assemble scripts, and produce a news program. This course will prepare students for college and careers in a variety of professions by emphasizing 21st century skills involving communication, collaboration, creativity, and critical thinking. The goal by the end of the course is for students to be able to research multiple credible sources, use technology to revise and edit clips, report accurately and clearly to meet deadlines.

Introduction to Engineering

1 credit

Course number: 1220 (elective credit) / 0281 (math credit)
Open to: Grades 10-12
Prerequisite: Algebra 1 or one credit in another technology elective
Scheduled: 1 Block Fall / Spring

This course will extend students' proficiency in mathematics, and apply these skills to technical and/or industrial situations and problems. Technical Math topics may include but are not limited to rational numbers, systems of measurements, tolerances, numerical language, geometry, algebra, statistics, and using tables, graphs, charts, and other data displays. Students will learn the engineering design process while working independently and collaboratively in a course which will be project-based. Projects will include, but are not limited to, making CO2 cars, designing and printing spinning tops, designing and building of bird houses and bridges, etc. In many cases the the math process will be done similar to the reverse engineering process with the math learned after the project is completed or during the process. ***Student can take this class for either one math credit or one elective credit as Introduction to Engineering.***

World Language & Culture Courses

French 1

1 credit

Course number: 0411
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

Introduction to French language and culture begins with an emphasis on listening and speaking skills. Students will learn to talk about themselves, food, family, travel, daily life, customs and habits here and in the French-speaking world. Reading and writing skills will be introduced as well as geography and history.

French 2

1 credit

Course number: 0421
Open to: Grades 9-12
Prerequisite: French 1 or Intermediate French credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block Fall / Spring

Building on skills learned in French 1, students study additional verb tenses (e.g., present, past, and future) and more extensive vocabulary. Student understanding and knowledge of Francophone cultures, including Quebec and Belgium, will grow deeper as we read authentic texts and watch films in French.

French 3

1 credit

Course number: 0431
Open to: Grades 9-12
Prerequisite: French 2 credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block Fall / Spring

Students in French 3 will experience a significant jump in their understanding and use of the language as activities become more creative and sophisticated. The course expands upon work begun in previous levels and gives students additional tools to communicate (spoken and written) and express themselves in a variety of situations in French.

French 4 (Advanced)

1 credit

Course number: 0441
Open to: Grades 10-12
Prerequisite: French 3 credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block Fall / Spring

Lessons based on authentic sources including newspaper, magazines, literature, music and film create learning opportunities for students to explore Francophone histories and cultures. Students will be given opportunities to review and master basics as well as study advanced grammar notions. When combined with the AP-level class, students pledge to speak exclusively in French during class.

AP French Language & Culture (Advanced Placement)

1 credit

Course number: 0471
Open to: Grade 10-12
Prerequisite: French 4 (Advanced) credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block Fall / Spring

The class will explore six themes: identities, esthetics, contemporary life, global conflicts, families and communities, and science and technologies. Students will be given opportunities to debate hot topics, write emails, prepare persuasive essays, and speak with and/or write to native in connection with a topic related to the six themes. In accordance with AP Standards, instruction will be given entirely in French and students pledge to speak exclusively in French during class.

Exam expectation: Students will take the AP exam in May for a fee of approximately $90. (The exam fee should not deter any student from taking this course. The College Board offers fee reductions, and the school will cover the fee for students with additional financial need.)

Students enrolled in an AP course are expected to take the AP exam in the spring as part of the course requirements. Failure to take the exam will change the identification of the course on the transcript to read "Advanced" rather than "AP" and the grade value will be reduced from weighted to unweighted.

Spanish 1

1 credit

Course number: 0412
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

In Spanish 1, students will learn the tools for basic conversation about daily life, including greetings, question words, numbers, preferences, and activities. The course will introduce basic reading and writing skills and will allow students to explore a variety of topics related to the Spanish-speaking world.

Spanish 2

1 credit

Course number: 0422
Open to: Grades 9-12
Prerequisite: Spanish 1 or Intermediate Spanish credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block Fall / Spring

Spanish 2 is an expansion of Spanish 1. Students will listen, speak, read, and write in Spanish, using the language to explore a variety of topics from the Spanish-speaking world, including sports, poetry, music, art, geography, and current events.

Spanish 3

1 credit

Course number: 0432
Open to: Grades 9-12
Prerequisite: Spanish 2 credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block Fall / Spring

This course expands the skills practiced in Spanish I and II and introduces additional language structures to talk about the past and the future. Students will practice the tools they need to navigate daily life and travel situations. Students can expect articles, essays, and presentations in Spanish about Spanish-speaking communities around the world in order to improve written and verbal communication skills.

Advanced Level Spanish Classes

Advanced Topics in Spanish covers complex grammar points and helps students to build vocabulary through the lens of a new topic each year. The course runs each fall and leads to an advanced credit. The course can stand alone or serve as a bridge to the AP Spanish course offered in the Spring.

Advanced Topics In Spanish: España - Historia, Cultura y Actualidad

1 credit

Course number: 0453
Open to: Grades 10-12
Prerequisite: Spanish 3 credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block, Fall Semester, every other year. **This course will be offered in 2020-21.**

In this advanced-level class, students will use the Spanish language to look at history, geography, popular culture, current events, sports, the arts, and cuisine in Spain. It may be taken after Spanish 3 or another Advanced Topics in Spanish seminar. Learning experiences focus on authentic sources, including newspapers, magazines, literature, poetry, music, and film.

Advanced Topics In Spanish: La actualidad en Latinoamérica

1 credit

Course number: 0451
Open to: Grades 10-12
Prerequisite: Spanish 3 credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block, Fall Semester, every other year. **This course will be offered in 2021-22.**

In this advanced-level class, students will use the Spanish language to look at history, geography, popular culture, current events, sports, the arts, and cuisine in Latin America. It may be taken after Spanish 3 or another Advanced Topics in Spanish seminar. Learning experiences focus on authentic sources, including newspapers, magazines, literature, poetry, music, film, and guest speakers.

AP Spanish Language & Culture (Advanced Placement)

1 credit

Course number: 0452
Open to: Grades 10-12
Prerequisite: A credit of one or both Advanced Topics in Spanish courses. Students MUST take one of the courses the semester immediately prior to taking AP Spanish, and demonstrates proficiency at that level by passing the World Language Culture Proficiency Assessment.
Scheduled: 1 Block Spring

AP Spanish Language and Culture continues the work students begin in Advanced Topics in Spanish. As students prepare to take the AP exam, they will learn about a variety of Spanish-speaking cultures and demonstrate proficiency in interpersonal, interpretive, and presentational communication. The course is comparable to a third-year college course. Learning experiences require students to integrate reading, writing, listening, and speaking in order to analyze and synthesize information from authentic Spanish-language sources.

Exam expectation: Students will take the AP exam in May for a fee of approximately $90. (The fee should not deter any student from taking this course. The College Board offers fee reductions, and the school will cover the fee for students with additional financial need.)

Students enrolled in an AP course are expected to take the AP exam in the spring as part of the course requirements. The decision not to take the exam will change the identification of the course on the transcript to read "Advanced" rather than "AP" and the grade value will be changed from weighted to unweighted.

German 1

1 credit

Course number: 0414
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course introduces the student to German language and culture. Students will learn to communicate in German about their families, friends, various sports and activities, travel and food.

German 2

1 credit

Course number: 0415
Open to: Grades 9-12
Prerequisite: German 1 credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block Fall / Spring

This course will review and build on the work begun in German 1. Students will gain a greater understanding of how the language works and will express themselves in increasingly complex statements.

German 3

1 credit

Course number: 0416
Open to: Grades 10-12
Prerequisite: German 2 credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block Fall / Spring

This course is designed to strengthen students' knowledge of the German language and German culture, balancing cooperative group work and structured independent learning to achieve these goals. The course will focus on 4 major themes: 1) German music, film, authors and art; 2) German internet and contemporary media; 3) German history and politics; and 4) German geography. This class will balance both independent learning and group learning. It will also be a chance to review and strengthen language skills, as well as work on several advanced research and writing projects.

Advanced Topics in German

Advanced Topics in German courses run every year, however the topics covered alternate from year to year. Students may take one or both of these classes in any order and an advanced credit will be given for each.

Advanced Topics In German: Art and Culture in Nazi Germany

1 credit

Course number: 0418
Open to: Grades 10-12
Prerequisite: German 3 credit and student demonstrates proficiency at that level by passing the World Language & Culture Proficiency Assessment.
Scheduled: 1 Block, every other year. **This course will be offered in 2020-21.**

In this advanced-level class, we will look at Art and Innovation in 20th Century Germany, focusing on the Nazi years (1933-45) and the periods before and after. Students will explore German fine art, music, design, technology and architecture with the goal of better understanding German society before, during and after the Nazi years.

World Language Lab

1 credit

Course number: 0497
Open to: Grades 9-12
Prerequisite: None
Scheduled: 1 Block Fall / Spring

This course is designed for students wishing to explore the language of their choice. The course will consist primarily of an independent language program. The instructor will facilitate cultural and linguistic work throughout the semester to support the student's progress in the language. This course is not intended to replace any language course that is already offered at Hartford High School.

Extended & Personal Learning Opportunities

The Eye Program

1 credit

Course number: 0996
Open to: Grades 10-12
Prerequisite: Interview with instructors
Scheduled: 1 Block Fall / Spring

This course embraces **Student-created Project** to expand learning experiences geared towards personal interests and goals. Students are encouraged to identify their passions and create their own authentic learning opportunities. Students will guide their own learning through connecting to and accessing resources to aid their endeavors. Teachers in this program serve as guides and resources for students to access experts in the community as much as possible; therefore, the experiences available are not limited to the walls or traditional schedule of Hartford High School. Students wishing to pursue this type of education must be able to work independently, collaborate with others and be willing to document and demonstrate their learning in several different forms, including but not limited to: daily reflections and presentation. These students will be required to present their learning during the semi-annual Hartford Exhibition Night(s). Students enrolled in this course will receive an elective credit. This course may be repeated for multiple elective credits with the prerequisite of the instructor's permission.

Some students may choose to participate in **Community-based Learning**. These learning opportunities may include: Internships, Job Shadows, or Work Experience. Students engaged in *The Eye Program's Student Created Projects* with a focus on **Community-based Learning** will be required to reflect on their learning through the Transferable Skills Standards in an individual portfolio and present at the semi-annual Hartford Exhibition Night(s). These students will receive an elective credit.

Independent Study

Hartford High School recognizes that there can be occasions when a student's educational interests are best served by engaging in an independent study with a teacher in the appropriate content area. The student will identify appropriate proficiency-based standards, including the transferable skills, which they will work toward achieving through their Eye experience. Students will work closely with a sponsoring professional/ teacher in the content area appropriate for their project. The individually developed project will be supported through regular contact with a high school teacher and will result in a presentation, or display of learning as a culminating presentation, at the semi-annual Hartford Exhibition Night(s).

To support this need Hartford High School will offer "The Eye" in the following content areas in addition to the general Student Created Projects: Art, Math, Music, Science and Social Studies.

PLATO-Based Online Courses

PLATO is an online learning platform that provides opportunity for students to learn anywhere they have access to Wi-Fi and a computer. Students can enroll in PLATO-based online courses (formerly referred to as QUEST classes) if (1) the course does not exist in name or content in the Hartford High School Program of Studies or (2) the student has failed the equivalent course and in doing so exhausted teachers who teach the course or (3) the student is unable to schedule a course that exists as a link in a sequence of courses that will prohibit the student from attaining the highest level possible in the sequence or (4) the student's counselor and/or case manager identifies that the online version of the course better serves the student's individual learning needs.

Hands on the Land: Building Hartford's Farm

1 credit

Course number: 0099
Open to: Grades 10-12
Prerequisite: Patterns of Literature and Learning
Scheduled: 1 Block Fall / Spring

This class provides a hands on, minds on, outdoor learning opportunity for students that utilizes a place-based and deep learning/inquiry model to pull English and possibly other content areas outside of the classroom and on to the land. The long term goal is to start a farm and would entail creating an outdoor place that promotes the values and vision of the district through which students can demonstrate a complex and deep mastery of content performance indicators and learning outcomes. Students will read, write, speak and listen in an authentic setting, interact with the public, conduct research, and make proposals to get this project going.

Hartford Area Career & Technology Center Courses

Incoming juniors or seniors are eligible to register for the following courses offered at the Hartford Area Career & Technology Center (HACTC). In most cases these courses will occupy (1 ½) blocks of time daily for both first and second semesters. Certain programs allow for a (1) block option for both the first and second semesters. Introductory courses for (1) block and (1) semester are designated below. In addition, sophomores may register for the following courses: Science Technology, Engineering, and Math (STEM), Computer Science, and Education Sciences. For all HACTC courses, students must visit programs of interest and complete a separate HACTC Application in order to be considered for admission.

With the exception of the STEM, Computer Science and Education Sciences courses, most courses are offered in a two-year sequence. The second year is a continuation of the first year but offers advanced work and some specialization. Most first-year students are enrolled in the afternoon session (11:15am - 1:30pm), while second year students are scheduled for the morning session (8:30am - 10:45am). In order to enroll in the second level of a program, a first-year student must earn a final grade of "C" or obtain the permission of the instructor. Upon successful completion of the first and second levels, a student will receive 5 credits in the career program and 1 embedded credit in either math, science, social studies, English or art as indicated in the following program descriptions.

Embedded Credits are issued in a cooperative agreement through the HACTC, Hartford High School and the State Department of Education and are based on curriculum review to award credits in specific academic areas based on the HACTC curriculum. Embedded credits to be awarded appear at the end of each program description. The National Technical Honor Society (NTHS) is available for eligible students.

Course Numbers and Titles	
1608	Health Sciences 1 (2C)
1609	Health Sciences 1 (3C)
1611	Health Sciences 2 (3C)
1612	Auto Tech 1 (2C)
1613	Auto Tech 1 (3C)
1614	Auto Tech 2 (3C)
1615	Building Trades 1 (3C)
1616	Building Trades 2 (3C)
1600	Business Administration 1 (2C)
1602	Business Administration 1 (3C)
1603	Business Administration 2 (2C)
1604	Business Administration 2 (3C)
1605	Pre-Business Administration (1C)
1601	Accounting 1 (1C)
1617-19	Career & Tech. Exploration (3C)
1622	Collision Repair & Refinishing 1 (2C)
1623	Collision Repair & Refinishing 1 (3C)
1624	Collision Repair & Refinishing 2 (3C)
1804	Computer Science Essentials (1.5C)
1805	Cyber Security (1.5C)
1806	Computer Science Principles Tech English (1C)
1807	Computer Science Principles Comp Science (1C)
1808	Computer Science Principles Elective (1C)

Course Numbers and Titles	
1631	Cosmetology 1 (3C)
1632	Cosmetology 2 (3C)
1639	Pre-Cosmetology (1C)
1699	Coop Education
1635	Culinary Arts 1 (3C)
1636	Culinary Arts 2 (3C)
1661	Design & Illustration/Media Arts 1 (2C)
1662	Design & Illustration/Media Arts 1 (3C)
1663	Design & Illustration/Media Arts 2 (2C)
1664	Design & Illustration/Media Arts 2 (3C)
1659	Pre-Design/Media Art (1C)
1666	Educ Sciences: Teach and Learn (3C)
1667	Educ Sciences: Coach and Lead (3C)
1671	Industrial Mechanics & Welding 1 (2C)
1672	Industrial Mechanics & Welding 1 (3C)
1673	Industrial Mechanics & Welding 2 (2C)
1674	Industrial Mechanics & Welding 2 (3C)
1681	Natural Resources 1 (3C)
1682	Natural Resources 2 (3C)
1686	Intro to Engin Design (STEM)(3C)
1689	Principles of Engin (STEM)(3C)

Hartford Area Career & Technology Center Programs

Health Sciences
Embedded Credit: 1 Science credit
Leadership Club: Health Occupations Students of America (HOSA)
College Course Options: Community College of Vermont, River Valley Community College and Vermont Technical College

Students in this program build a strong foundation of academic and practical knowledge in general health care. Health Sciences (HS) offers students a fabulous springboard into nursing programs, EMT training, sports medicine, physical therapy, imaging sciences, veterinary programs, and dentistry. Program completers may earn up to nine college credits and five industry certifications to help them on their career path. Those wishing to distinguish themselves often do so through the National Technical Honor Society and HOSA, a student leadership program for future health-care professionals. HS students are actively engaged in the field through volunteer work and Cooperative work placements. Students wishing to receive their Licensed Nursing Assistant (LNA) certification will have the opportunity to enroll in the evening or weekend LNA program.

Auto Technology
Embedded Credit: 1 Science credit
Leadership Club: Automotive Club Enthusiasts (ACE)
College Course Option: Lakes Region Community College

This program trains students to jump in and get their hands dirty. With different shop vehicles to practice on, students learn by completing projects for themselves. Once lessons are mastered, students may begin working on "live jobs" where community members bring vehicles to the school for maintenance and repair. For even more real-time exposure, students in the Automotive Technology program participate in the AYES Program (Automotive Youth Educational Systems) and cooperative education placements, which prepares them for certified internships and potential job placement with a local dealership. The Automotive Technology program is also NATEF (National Automotive Technicians Education Foundation) certified.

Building Trades
Embedded Credit: 1 Math credit
Leadership Club: Future Business Leaders of America (FBLA)
College Course Option: Vermont Technical College (pending)

Students get hands-on access in the professional trades while they work to build a house from the ground up. This program is certified by the Association of General Contractors of Vermont and guides students through building a brand new energy-efficient house from beginning to end, on a two year cycle. During this process, students will learn everything from beginning tool safety and blueprint reading through residential plumbing and electrical. Upon program completion, students are qualified to walk into most entry-level positions within the building trades field. Students may also choose to use the program's articulation agreement and begin studies at Vermont Technical College or even pursue an apprenticeship through the Vermont Department of Labor.

Business Administration
Embedded Credit: 1 English credit
Leadership Club: Future Business Leaders of America (FBLA)
College Course Option: River Valley Community College

Business Administration students are people who want to develop the business professionals within them. This program leads students through all aspects of the business world, from accounting and personal finance to marketing and professional communications. Students develop their own sharp business skills through individual and group projects, Cooperative Education placements, and guest lectures from industry professionals. Business Administration students stay active by participating in FBLA (Future Business Leaders of America), earning up to nine college credits, building a professional business and communications portfolio, and earning five different industry recognized certifications.

Pre-Business Administration

This one semester course is open to students who are interested in the world of business. Topics covered in this course include personal finance, computer literacy and applications, digital citizenship, communications and leadership. Students will complete simulations, research projects and an independent capstone project.

Accounting 1

Demand for accounting professionals currently exceeds supply. If you're interested in increasing your financial awareness while also gaining a marketable skill, this course is for you. Accounting introduces the student to basic accounting principles—the accounting cycle, financial statements, subsidiary ledgers, banking procedures, payroll procedures, the combined journal, and online accounting.

Career & Technology Exploration Program *(Sophomore Students Only)*
Embedded Credits: 1 Math credit, 1 English credit, and 1 Fine Art credit

This classroom model is meant to offer a unique and holistic learning experience in a non-traditional classroom. Small group and one on one instruction are the key to helping Career Technology Exploration (CTE) students reconnect to their own educational experience. The more individualized and supported instruction is vital in helping students find success in school and improving their overall educational experience. The CTE program helps students earn traditional high school credits while providing early exposure to Career and Technical Education. Students cycle back and forth between time in the classroom and placements in the HACTC technical programs, giving students an up close and hands-on introduction to the HACTC. While in their own classroom, CTE students focus on high school math, English, and art credits. Upon successful completion of the CTE program, students will have the opportunity to apply to an HACTC program for his or her junior year.

Collision Repair & Refinishing Program
Embedded Credit: 1 Math credit or 1 Science credit
Leadership Club: Automotive Club Enthusiasts (ACE)
College Course Option: Nashua Community College - Nashua

Students in Collision Repair and Refinishing get to use top-of-the-line equipment and technology like the DeVilbiss semi-downdraft paint booth, PPG Aquabase paint mixing system, and commercial quality vinyl cutting machine. The curriculum focuses on mechanical, body repair and replacement, sanding, masking, painting, and use and care of high tech spray equipment. With permission from the instructor, students may work on "live jobs" brought in by the local community. This program is also NATEF (National Automotive Technicians Education Foundation) certified. After completing this program, students have had success entering directly into the workforce or going on to post-secondary education.

Computer Science Essentials
High School Credit Option: 1.5 Computer Science credit
Leadership Club: Technology Student Association (TSA)
College Course Option: River Valley Community College

Computer Science Essentials is a one-semester course that deals with the nuts and bolts of the Information Technology (IT) world. First, students will use MIT Apps Creator to learn visual, block-based programming. Then they will transition to text-based programming using Python. They will create applications and explore career paths in the IT arena. Finally, they will learn how to make computers network together to put their design into practice. Students will learn to work together, just as computing professionals do, to create products that address topics and problems important to them.

Computer Science Principles
Embedded Credit: 1 English credit and 1 Science credit or 1 Technology Elective
Leadership Club: Technology Student Association (TSA)
College Course Option: River Valley Community College

In Computer Science Principles, students will utilize multiple platforms and programming languages as they develop programming skills, generate excitement about career paths that utilize computing, explore the workings of the Internet, and experiment with professional tools that foster creativity and collaboration. Class projects and problems include app development, visualization of data, cybersecurity and simulation. This full-year course can be a student's first in Computer Science, but we encourage students without prior experience to start with Computer Science Essentials.

Computer Science Cybersecurity
Embedded Credit: 1.5 Science credit
Leadership Club: Technology Student Association (TSA)
College Course Option: River Valley Community College

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

Cooperative Education & Business Cooperative Education (Seniors Only)

Cooperative Education is an extension of the applied technical training given at the Career and Technology Center. This flexible, individualized program enables students to develop technical and general employability skills through supervised, planned work experiences with area employers. Three primary types of experiences are available to students: Job shadows; short term, unpaid Career Work Experiences; and long term salaried experience, certified by the VT Department of Education. Eligibility for participation in Cooperative Education is based upon instructor recommendation; placements are made and students are supported and supervised by the Co-op Coordinator. Credit is awarded as part of the student's program enrollment, or in addition to it, depending on the number of additional hours that the student works.

Cosmetology
Embedded Credit: 1 Science credit
Leadership Club: Future Business Leaders of America (FBLA)
College Course Option: Community College of Vermont

Cosmetology is for creative thinkers who enjoy working with people and want a career in the beauty industry. Students in this program learn the basics of hair, nails, and skin in a hands-on learning lab environment. Working in a salon setting helps students learn important daily operations and business skills such as professional image and leadership, state laws and regulations, receptionist skills, client handling, employee retention and salon management. Students from this program may earn several industry certifications giving them a competitive edge in both career and educational pursuits. Hours spent in program can be applied towards state licensure and even towards post-secondary cosmetology programs nationwide. From barbering and cosmetology, focusing on hair, to ethics and makeup with a focus on skincare, there are many avenues for students in this program and in the beauty industry.

Pre-Cosmetology

Pre-Cosmetology is an introductory course that students may take for one or more semesters to explore the Cosmetology Industry. Students may explore areas such as bacteriology, sterilization and sanitation, shampooing, and the principles of hair styling. The students will also observe other areas in the industry. To prepare for success, students must learn daily salon operation skills relative to the industry as well as academic knowledge and basic practical skills. Students may begin to earn clock hours toward State licensing requirements during this time frame.

Culinary Arts
Embedded Credit: 1 Science credit
Leadership Club: Hospitality Club
College Course Options: Lakes Region Community College, New England Culinary Institute

The Culinary Arts program is a fast-paced learning environment grounded in food science, safety, sanitation, customer service and the basic principles of cooking. With our cafe-style restaurant named "The Getaway", Chef Patrick Gobeille exposes students to a practical application of skills in a dynamic, rigorous curriculum. Students will demonstrate a basic knowledge of the food service industry, including: organizational flow, HACCP, sanitation practices, personal hygiene, equipment and utensil identification and use, basic first aid, nutrition, customer service, basic food and bakeshop techniques, as well as storage, handling of food and math applications.

Design, Illustration, and Media Arts
Embedded Credit: 1 Fine Art credit
Leadership Club: Future Business Leaders of America (FBLA)
College Course Option: Lakes Region Community College (pending)

The Design and Illustration and Media Arts (DIMA) program at the HACTC is full of creative thinkers. Students in both levels work through projects that introduce them to many different aspects of this exciting industry while still exploring their personal interests through self-directed projects. Students use industry standard Mac platform software with the most up-to-date Adobe software. Students work through projects that introduce them to many different aspects of digital illustration, digital video production, digital photography, 2-D animation, and motion graphics. Students also accept "live jobs" from the public sector and must learn how to create professional quality work products and follow real-world timelines.

Pre-Design, Illustration, and Media Arts
Through a series of hands-on projects, students will explore various digital arts. This semester long course will expose students to career pathways in the Digital Illustration and Media Arts industry. Students will study topics through the Adobe CC Suite, learn about digital media and devices, try out digital SLR and HD cameras and technology, and acquire knowledge of terms and vocabulary used in the digital media and arts industry.

Education Sciences: Teaching and Learning
Embedded Credit: .5 English credit and .5 Science credit
Leadership Club: Educators Rising
College Course Option: River Valley Community College

Education Sciences: Teaching and Learning is a one-year program that offers students in grades 10, 11 or 12, who have a desire to work in any type of education or psychology profession the opportunity to learn course content and develop skills from guest speakers, related readings, individual and group projects, and field trips, as well as hands-on application through Cooperative Education experiences in the student's area of interest. Units of study will include lesson planning, classroom management, public speaking, assessment, English Language Learners, online learning and more.

Education Sciences: Coaching and Leading
Embedded Credit: .5 English credit and .5 Science credit
Leadership Club: Educators Rising
College Course Option: River Valley Community College

Education Sciences: Coaching and Leading is a one-year program that offers students in grades 10, 11 or 12, with an interest in any type of leadership position the opportunity to learn course content and develop skills from guest speakers, related readings, individual and group projects, and field trips, as well as hands-on application through working with the Hulbert Outdoor Center each week. Units of study will include Wilderness First Aid Training, outdoor leadership, community leadership, coaching/ athletics, conflict resolution, public speaking and more.

Industrial Mechanics & Welding
Embedded Credit: 1 Science credit

This program is for creative thinkers who enjoy designing and fabricating. In the state-of-the-art Industrial Mechanics and Welding (IMW) facility, students work on projects ranging from metal art to building with a CNC machine, to designing a wood chip boiler to building electric vehicles. Students have over 28 pieces of major shop equipment at their disposal including a 48"X 96" CNC plasma cutting table. The IMW program enjoys a unique friendship with Hypertherm, a local company that has not only donated equipment, but also established scholarships for two IMW seniors each year.

Natural Resources
Embedded Credit: 1 Science credit
Leadership Club: FFA
College Course Option: Vermont Technical College

Our mission in the Natural Resources program is to expose and get students excited about outdoor-related careers. The six main areas of our curriculum are forestry, natural history, diversified agriculture, horticulture, water and soils. Safety, equipment usage, and teamwork are very large parts of the program as well. Students participate in leadership training and regional competitions through FFA. Hopefully after two years in the program, students find an area of interest and take steps to secure a job or further their education in a related field. Examples of careers that Natural Resources students have pursued include: arborist, forester, farmer, water management, heavy equipment operator, land management, landscaping, conservation law enforcement, and outdoor recreation, among many others. Many of our alumni go on to employment in state positions and local municipalities.

Introduction to Engineering Design (STEM)
Year-Long Credits: 1 Algebra 2 credit, 1 Engineering credit, 1 Technology credit
Leadership Club: Technology Student Association (TSA)
College Course Option: St. Cloud State University

Using the Project Lead the Way curriculum, Introduction to Engineering Design (IED) students dig deep into the engineering process. This program focuses on applying math, science, and engineering theory to hands-on-projects. Students will work both individually and in teams using 3D modelling software and real-life project assembly. Project progression will be charted and documented both in an engineering journal and Digital Assessment Tool. IED is a one-yearlong couse.

Principles of Engineering (STEM)
High School Credit Option: ⅔ credits Engineering, or 1 credit Physics
Preferred Prerequisite: Introduction to Engineering Design
Leadership Club: Technology Student Association (TSA)
College Course Option: St. Cloud State University

While using the Project Lead the Way curriculum, Principles of Engineering (POE) students work through problems that engage and challenge, while exploring a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

HARTFORD HIGH SCHOOL CREDIT REVIEW SHEET

Student Name: _____ ***Year of Graduation:*** _____

REQUIRED COURSES	Grade 9	Grade 10	Grade 11	Grade 12	Total Credits per Area
English (4)					
Social Studies (3) * *US History*					
Math (3)					
Science (3) * *a physical science* * *Biology*					
Fine Arts (1)					
P.E. (1.5)					
Wellness (.5)					
Personalizing Your High School Experience (.5)					
Electives (9.5)					
Total Earned Credits					

For School Year 2020-21:

Personal Goals: _____

Academic Goals: _____

Career Goals: _____

Post Secondary Plans: _____
(for example, 2-year or 4-year College or Military or Work or Other)

Community Service Hours: _____ *Go to HHS website to get Community Service Forms*

Hartford School District
Ends Policies

The mission of the Hartford School District is to provide and ensure a caring and dynamic learning community where the intellectual development of students is our highest priority.

E 0.0 Universal End

Students will graduate from the Hartford School District equipped with a diverse set of knowledge and skills—achieved through a combination of classroom-based, hands-on and peer-to-peer learning—that will provide them the foundation to excel in future endeavors.

E 1.0 Academic Excellence

Students will perform at a high level in these crucial areas of academic expertise: reading skills for information and interpretation; written and verbal communication skills; problem-solving skills based on mathematical, scientific and social-scientific knowledge demonstrated through application; and skills developed through broad knowledge of the arts and humanities. Students will participate in and understand the benefits of collaborative learning.

E 1.1 Technology/Information Skills

Students will be proficient in a variety of technologies in ways that are responsible, are respectful, and enhance both academic and life skills. Students will be able to critically assess and interpret information, and to communicate that information to others using appropriate technologies.

E 2.0 Life Skills

Students will demonstrate the ability to develop long-term life goals, to plan for their future, to cooperate with others, and to live independently within and adapt to an ever-changing world. They will be able to identify problems and determine the resources and people necessary to help solve them. Students will demonstrate the qualities essential for succeeding within and outside of the school setting, including integrity, tolerance, self-motivation and work ethic, intellectual curiosity, and respect for themselves and others.

E 2.1 Health & Well Being

Students will develop personal and social skills and behaviors that will support their physical, emotional and mental well-being. Students will demonstrate an understanding of how nutrition, exercise and athletics, creative outlets, self-reflection, and personal relationships contribute to a healthy, well-adjusted and productive person.

E 3.0 Citizenship

Students will demonstrate an understanding and appreciation of how their actions integrate with broader society, and will participate actively and positively within their school and community. Students will demonstrate an understanding of citizenship and its essential qualities, including leadership, critical thinking, self awareness, and respect for multiple viewpoints.

E 3.1 Global Awareness

Students will demonstrate an understanding and appreciation of the economic, political, environmental and cultural changes occurring at the global scale, and how these changes impact their communities.