

Hollis Brookline High School



Program of Studies

2019 – 2020



Hollis Brookline High School

24 Cavalier Court Hollis, New Hampshire 03049

phone 603.465.2269 fax 603.465.2485

www.hollisbrookline.org

Administration

Principal: Richard D. Barnes
Assistant Principals: Robert F. Ouellette
Amanda C. Zeller
Lauren F. DiGennaro

School Counseling

School Counselors: Theresa Risdal, Department Chair
Dawn Breault
David Hersey
Susan Joyce
Chantel Klardie
Kathleen Maynard
Richard Winslow

We Value:

Integrity • Intellectual Curiosity • Innovation • Individuality • Involvement in HBHS community

We Believe In:

- Inspiring lifelong learning and achievement through a broad range of experiences.
- Encouraging all to strive for their maximum potential.
- Upholding an atmosphere of mutual trust and respect essential to the educational process.
- Recognizing that students, parents, and staff share responsibility for open communication to maintain a thriving school community.
- Maintaining a safe, productive, and inclusive learning environment.

Academic Expectations

Students will:

- Read and write fluently, expressively and accurately.
- Listen and speak with sensitivity and discrimination.
- Solve problems logically and analytically.
- Use their creative abilities in original and productive ways.
- Use their critical abilities to recognize and value excellence and quality.
- Be prepared to meet the changing technological demands of the marketplace.

Social Expectations

Students will:

- Respect the rights and values of others.
- Resolve conflicts appropriately.
- Accept responsibility for their actions.

Civic Expectations

Students will:

- Understand and accept their duties as citizens of a democracy.
- Contribute to the greater well-being of society.
- Respect the differing values of the global community.

Contents

Introduction.....	5
Principal's Message	5
Student Services	6
Career Technical Programs	7
English Learners	7
Compliance with Federal & State Laws	7
Graduation Requirements	8
NH State Standard Diploma	9
Equivalency Diploma.....	9
New Hampshire Scholars Program	10
Credit Accumulation Guidelines	11
Credit Recovery.....	11
Making Up Credits	11
Alternative Methods of Earning Academic Credit	11
Summer Enrichment	12
Grade Policies.....	12
Grade Reporting.....	12
Transfer of Credits	12
Audit Policy	13
Grade Weighting.....	13
Grade Scale.....	13
Grade Point Average.....	13
Academic Progress.....	14
CAVBlock.....	14
Honor Roll	14
Senior Options Program	14
Junior Privileges	15
Course Registration Procedures	15
Restrictions on Course Selection	15
Teacher Recommendations.....	15
Add/Drop Procedures.....	15
Level Changes	16
Overview of College Admission Requirements.....	16
Course Descriptions by Department.....	18
Career Education Programs	18
Computer Education	20
Engineering	22
English	25
Family and Consumer Sciences	32
Mathematics	34
Physical Education	40
Science	42
Social Studies	49
Student Support Services.....	54
Visual and Performing Arts	59
World Language	65
Career and Technical Programs (Milford, Nashua).....	71
Extracurricular Programs.....	92

Athletic Programs.....	92
NCAA Approved Courses.....	93
Sample Four-Year Educational Plan	94
Student Activities Spreadsheet	95
Index	96

Introduction

This *Program of Studies* has been prepared to assist students and their parents in deciding which courses to take at Hollis Brookline High School. It provides information on course descriptions, suggested course sequences, required and elective courses, credit requirements, special programs, and selected school policies.

The careful selection of required and elective courses is an important first step toward a successful educational experience at Hollis Brookline High School. Students should review the *Program of Studies* with their parents. Counselors will meet with students to hand out registration information, explain the registration process and discuss program planning. Students should consult with their core teachers to determine appropriate placement before online course registration begins. Be sure to pay particular attention to course prerequisites, required courses, and college admissions requirements when selecting your courses.

It may not be possible to offer all the elective courses listed in this *Program of Studies*. The courses offered will depend on the number of students who enroll for each course. Conflicts may also arise due to a student's specific course requests, therefore, be sure to choose at least two alternate elective courses when registering online.

Principal's Message

Dear HBHS students and Parents/Guardians,

This *Program of Studies* is designed to be your guide as you chart your path over the next four years. A great deal of thought and work goes into planning the scope and sequence of our curriculum to ensure that it is designed with our students' best interests in mind.

Please use this guide as a reference for graduation requirements and course prerequisites, as well as a tool to help you map out your selections for the 2019-20 School Year and beyond. There are many wonderful opportunities to take advantage of here at HBHS. As you develop your plan for the years ahead, I urge you to consider balancing your schedule between courses that will challenge you and courses or co-curricular activities that you simply enjoy. We urge you to utilize the Student Activities Spreadsheet at the end of this program to assist you in navigating the balance between school, life, and activities. I also encourage you to communicate regularly with your parents, teachers, and school counselors throughout the course selection process as these decisions will affect your plans for the future.

As you navigate through the process of selecting your courses, please do not hesitate to contact your school counselor as well as current and former teachers at any time if you have questions. We are always open to any feedback and suggestions that you may have as we work together toward creating the best academic program possible for our students.

Sincerely,
Richard D. Barnes
Principal

Student Services

The mission of the Hollis Brookline School Counseling Department is to provide a comprehensive program that encourages the successful academic, career and social-emotional development of each individual. We believe through collaboration with students, families, school staff, and community members we can assist students in reaching their full potential.

Academic Achievement

- A. Students will acquire the attitudes, knowledge and skills contributing to effective learning in school and across the lifespan.
- B. Students will complete school with the academic preparation essential to choose from a wide range of substantial post-secondary options, including college.
- C. Students will understand the relationship of academics to the world of work and to life at home and in the community.

Career Planning

- A. Students will acquire the skills to investigate the world of work in relation to knowledge of self and to make informed career decisions.
- B. Students will employ strategies to achieve future career goals with success and satisfaction.
- C. Students will understand the relationship between personal qualities, education, training and the world of work.

Personal Social Development

- A. Students will acquire the knowledge, attitudes and interpersonal skills to help them understand and respect self and others.
- B. Students will make decisions, set goals and take necessary action to achieve goals.
- C. Students will understand safety and survival skills.

Career and Technical Programs

HBHS students are eligible to attend Alvirne, Nashua, Milford, and Mascenic High Schools in the **11th and 12th** grades for career and technical education. The courses available in the *Program of Studies* and are listed in the “Career and Technical Programs” section. Specific information may be obtained from the School Counseling Department. Career programs also include internships and work study through Hollis Brookline High School.

English Learners (EL)

The EL program is designed for students residing in the district whose language is other than English, or for students who come from a family where the influence of another language may impact his/her ability to compete with peers in English. EL not only provides listening, speaking, reading, and writing components, but also provides assistance and support for core classes. This may be achieved through advanced teaching of vocabulary, modifying assignments and possibly tests with the classroom teacher, or providing extra test-taking time with the ESOL teacher. The goal of EL is to help the student learn enough English to compete with peers. EL services are not available for exchange students from other countries.

Student Services & Compliance with Federal and State Laws

The Hollis Brookline Cooperative School District complies with all Federal and state laws that apply to schools. These include:

- Family Education Rights and Privacy Act (FERPA)
- Individuals with Disabilities Education Act (IDEA)
- Child Find Notice: Children With Disabilities Under IDEA or Section 504 (ADA)
- Notice of Procedural Safeguards Under Section 504 and the ADA
- Child Neglect and Abuse
- Section 504 of the Americans with Disabilities Act (ADA)
- Section 504/Title II Grievance Procedure.

The school’s website (www.hollisbrookline.org) provides brief information concerning these laws. Additional information is available through numerous government sources and through the school.

Visit the Hollis Brookline High School Web Site

www.hollisbrookline.org

Click on the School Counseling link for assistance and information on:

Career Services	Counseling Services	Program of Studies	School Profile
Career and Technical Programs	Helpful Websites	Register New Student	School Newsletter
College Admissions Testing	Naviance	SAT Prep	Summer Reading
College Information	Presentations	Scholarships	

Hollis Brookline High School Graduation Requirements

Students must earn 23 credits to graduate with a Hollis Brookline High School Diploma. This diploma indicates that the student has completed a rigorous high school curriculum which exceeds the state requirements. The following courses are graduation requirements. The credit given for each course is included with the respective course description. **Note: A course cannot be used to earn credit in more than one category. Beginning with the Class of 2019, all high school students must engage in a math experience for every year they are in high school until graduation. Courses that meet this requirement are marked by a “+”.**

<u>Category</u>	<u>Credits</u>
English (including .5 Writing credit)	4.50
Mathematics (including 1.0 Algebra credit)	3.00
4th Year Math Experience +	N/A
Information and Communication Technology (ICT Digital Portfolio)	0.50
Social Studies - 1 U.S. History, 1 World Studies, .5 Economics, .5 Civics credit	3.00
Science (including 1 Physical Science credit & 1 Biological Science credit)	3.00
Arts Education (all Performing Arts, Visual Arts)	0.50
Physical Education	1.00
Wellness	0.50
Restricted Electives	3.00
Three credits selected from at least two of the following areas:	
<i>Arts Education:</i> Performing Arts, Visual Arts	
<i>Practical Arts:</i> Computer & Technology, or Family and Consumer Sciences	
<i>Career and Technical Education</i>	
<i>World Language:</i> Level IV or V of a World language, or a second World language	
<i>Mathematics, Social Studies and Science:</i> fourth credit	
Free Choice Electives	4.00
Credits selected from any of the school's course offerings	
TOTAL	23.00

Hollis Brookline High School – NH State Standard Diploma

A NH State Standard Diploma for Academic Achievement may be awarded to any student who completes the state minimum required units of study as defined by Ed 306.27(m) but who does not qualify for a Hollis Brookline High School diploma as designated in Board Policy IKF. Students seeking a diploma under this policy are advised make a request, in writing, to the building principal no later than one semester prior to his/her anticipated graduation date. The principal must approve the request prior to awarding an alternative diploma. **Beginning with the Class of 2019, all high school students must engage in a math experience (not necessarily a math credit) for every year they are in high school until graduation. Courses that meet this requirement are marked by a “+”.**

<u>Required Subjects</u>	<u>Credit(s)</u>
Arts Education	.5 credit
Information and Communications Technologies	.5 credit or demonstrate proficiency
English	4 credits
Mathematics	3 credits, including algebra credit that can be earned through a sequential, integrated, or applied program, and a 4 th year math experience
Physical Sciences	1 credit
Biological Sciences	1 credit
US and NH History	1 credit
US and NH Government/Civics	.5 credit
Economics	.5 credit
World History, Global Studies, or Geography	.5 credit
Health Education	.5 credit
Physical Education	1 credits
Open Electives	6 credits
Totals	20 credits

Equivalency Diploma

An **Equivalency Diploma** shall be awarded to a student who receives special education services and who successfully completes the requirements for this diploma as established and set forth in the student's Individualized Education Program (IEP) and who does not meet the requirements for a diploma set forth in the State Minimum Standards for Public School Approval and applicable District policy. The requirements for this Diploma may vary from student to student. The high school must secure the informed written consent of the parent or guardian and the student to choose this diploma program after review of the student's academic history and the full disclosure of the student's options.

Any student who receives an equivalency diploma pursuant to this policy will be allowed one opportunity to participate in the District's graduation ceremony.



NH Scholars

New Hampshire Scholars is a community-based program that encourages students to take a more rigorous core course of study in high school. The program is federally-funded through the New Hampshire Department of Education, and is coordinated through a partnership between the New Hampshire College and University Council, Campus Compact for New Hampshire and the New Hampshire Department of Education. New Hampshire Scholars is part of the National State Scholars Initiative Network. Twenty-five states across the country participate in this national initiative. For more information visit nhscholars.org

New Hampshire Scholars must successfully complete and earn credit for courses listed under the NH Scholars Core Course Requirements. Students have three pathways from which to choose:

NH Scholars Core, NH Scholars STEM Emphasis and NH Scholars Art Emphasis.

NH Scholars Core Course Requirements

- English - 4 years
- Math - 4 years, including Algebra I, Geometry, and Algebra II, and 1 other competency
- Laboratory Science - 3 years of Laboratory Science (e.g. Biology, Chemistry, Physics, Anatomy & Physiology)
- Social Studies - 3.5 years (US History, World Studies/History, Civics/Economics, and 1 elective)
- World Language - 2 years of the same world language other than English

NH Scholars with STEM Emphasis

- English - 4 years
- Math - 4 years, including Algebra I, Geometry, and Algebra II, and 1 other competency
- Social Studies - 3.5 years (US History, World Studies/History, Civics/Economics, and 1 elective)
- World Language - 2 years of the same world language other than English
- **Science - 4 years, including 3 Laboratory Science (Biology, Chemistry, Physics, A&P, Pre-Engineering, Computer Science, etc.)**
- **STEM related courses – at least one more year chosen from Technology, Engineering, Computers, Advanced Manufacturing, Science, Math, CTE program, Project Lead the Way (All courses in Science, Computer Education, and Engineering qualify for NH Scholars with STEM Emphasis).**
- **Minimum 3.2 GPA**

NH Scholars with Art Emphasis

- English - 4 years
- Math - 4 years, including Algebra I, Geometry, and Algebra II, and 1 other competency
- Laboratory Science - 3 years of Laboratory Science (e.g. Biology, Chemistry, Physics, Anatomy & Physiology)
- Social Studies - 3.5 years (US History, World Studies/History, Civics/Economics, and 1 elective)
- World Language - 2 years of the same world language other than English
- **Art Education – 2 years (All courses in Visual & Performing Arts qualify for NH Scholars with Art Emphasis)**
- **Minimum 3.2 GPA**

Approved courses are noted in the *Program of Studies* by the NH Scholars Seal.



Credit Accumulation Guidelines

Beginning in 9th grade, progress toward graduation depends on the accumulation of credits and passing required subjects. Algebra 1, French 1, and Spanish 1 taken in middle school may allow students to take Geometry, French 2, or Spanish 2 upon entering the 9th grade. Middle school courses will not count as part of the 23 credits required for high school graduation and are not reflected on the high school transcript. Students are able to schedule a study each year and still meet their graduation requirements.

These credit accumulations are guidelines for entrance into grades 10, 11, and 12:

At the completion of Grade 9:	6 credits
At the completion of Grade 10:	12 credits
At the completion of Grade 11:	17 credits

It is a student's responsibility to meet periodically with his/her counselor to ensure all graduation and credit requirements are completed.

Credit Recovery

Students who fail a course for the year may earn credit in one of the following ways:

- Repeat the course at Hollis Brookline High School.
- Enroll in a summer school program at a local high school. Students must first meet with their school counselor to determine the appropriate course and program that will fulfill the lost credit as well as review academic information. Summer school programs require that students have passed at least two quarters of a full-year course or one quarter of a semester course and have obtained approval from the principal. An Alternative Credit Application (available in the School Counseling Office) must be completed prior to taking the course. Credit will be awarded upon successful completion of the course. The course grade will be entered as a grade of P or F, and there is no adjustment to the student's GPA calculation.
- Competency recovery through the Virtual Learning Academy Charter School (VLACS) is an opportunity for students to complete the essential work required to have mastered a failed HBHS course. Teachers must first determine that the student is eligible for competency recovery. Competencies are then chosen by the HBHS teacher. An Alternative Credit Application must be completed and principal permission obtained. Competency completions will be reviewed by the Academic Review Committee. HBHS teachers may adjust the student's final grade. Credit will be awarded and GPA will be recalculated.

Alternative Methods of Earning Academic Credit

Generally courses required for graduation are taken at Hollis Brookline High School. Students who wish to take courses through an extended learning opportunity and/or online programs may do so in consultation with the school counselor and pre-approval of the principal. In all cases an Alternative Credit Application must be completed and permission obtained prior to the commencement of the class/program. Alternative credit may be accepted toward requirements leading to a student's Hollis Brookline High School diploma if approved by administration. It should be noted that these courses will reflect credit on the HBHS transcript if they are taken at an accredited high school. Official transcripts must be provided to the school registrar. See your counselor for more information.

1. **College/University Credit:** With prior approval from the principal and before the beginning of a semester, credit can be accepted for college level courses. All applications must be completed and

approval granted from the principal. High school credit will be granted for a semester college course provided that a passing grade is earned.

2. **Online Courses:** With prior approval from the principal, credit may be earned by successfully completing online or distance learning courses, such as the Virtual Learning Academy Charter School, BYU, etc.
3. **Independent Study:** With approval from the principal and prior to the beginning of a semester, credit may be earned for academic independent study projects that will be coordinated, supervised, and evaluated by a Hollis Brookline High School faculty member. An alternative credit application must be completed and permission granted prior to commencement of the study project. Teachers must be certified in the course content area. Independent Study courses fulfill free choice and restrictive elective graduation requirements and are graded **Pass** or **Fail**.
4. **Out-of-District Placement:** The number of high school credits granted for courses, offered at out-of-district special education approved day and residential programs, will be determined by the principal upon successful completion of the courses.
5. **Study Abroad:** With prior approval of the principal, credit may be earned while studying abroad in a certified program. The courses taken should be in line with Hollis Brookline High School graduation requirements; otherwise, participation in a study abroad program may delay graduation. See your counselor for more information.

Summer Enrichment

Students are encouraged to participate in summer enrichment experiences. These programs are seen as enrichment only and do not qualify for credit. Programs such as People to People, St. Paul's Advanced Studies Program, Summer Institute, and language immersion programs do not qualify for academic credit. See your counselor for more information.

Grade Policies

Grade Reporting

Grades are reported quarterly via the PowerSchool parent portal four times a year. A student's quarterly grade, mid-term exam, final exam, and final grades appear in letter form. Assignment grades and attendance information is available to families through the PowerSchool Parent Portal. The letter grading system is outlined on page 13. Students have ten (10) school days from the date grades close to resolve any incomplete grades. Students with incomplete grades after that time will not be eligible for the Honor Roll. Mid-term and final exam grades appear on the parent portal and factor into the final course grade, but do not appear on transcripts.

Alert messages will be sent as follows:

- At the end of each quarter notifying parents when term grades have been stored
- Mid-quarter for students who are receiving grades in the D/F range

Any parent who does not have access to a computer should inform the School Counseling Office and a paper copy will be provided to the student.

Transfer of Credits

All courses transferred in to Hollis Brookline High School are included in a student's cumulative GPA. All attempts for courses taken outside of Hollis Brookline High School that have been approved with an Alternative Credit Application will be noted on the HBHS transcript, including grades of withdrawal or failure.

Audit Policy

With the permission of the principal and the recommendation of the receiving and sending teacher, students may request to Audit a class they have previously taken. The purpose of the Audit is to repeat the course in an effort to further develop academic knowledge and build a stronger academic foundation. Students must complete an Audit Agreement (located in the School Counseling office) to be signed by parent, administration, teacher and school counselor. Please note: classes that are designated as audit do not meet the school requirement of carrying six classes in grades 9-11 or five classes for grade 12.

Grade Weighting

Honors and AP courses from each major department carry more weight in calculating grade point average.

AP Biology	AP Physics I	AP U.S. History	Honors French IV
AP Calculus	AP Physics II	Honors Anatomy &	Honors Jazz Band
AP Chemistry	AP Psychology	Physiology	Honors Literature
AP Computer Science	AP Spanish	Honors Chemistry	Honors Pre-Calculus
AP English Language	AP Statistics	Honors Choir	Honors Senior Quest
AP English Lit. & Comp.	AP Studio Art	Honors Civics	Honors Spanish IV
AP Environmental Science	AP World History	Honors Economics	Honors U.S. Literature
AP French	AP U.S. Gov. & Politics		

HBHS Grade Scale

GPA Point Value

Letter Grade	Weighted	Regular	Range
A+	5.00	4.33	97 - 100
A	4.67	4.00	93 - 96
A-	4.33	3.67	90 - 92
B+	4.00	3.33	87 - 89
B	3.67	3.00	83 - 86
B-	3.33	2.67	80 - 82
C+	3.00	2.33	77 - 79
C	2.67	2.00	73 - 76
C-	2.33	1.67	70 - 72
D+	2.00	1.33	67 - 69
D	1.67	1.00	63 - 66
D-	1.33	0.67	60 - 62
F	0.00	0.00	Below 60

Grade Point Average

A student's Grade Point Average (GPA) is determined at the end of each year. HBHS utilizes a partially-weighted system to calculate GPA. The highest possible GPA in freshman year is 4.33. Inclusion of weighted courses in sophomore through senior year raises the GPA scale to 5.00. Thus, the highest cumulative GPA at the end of sophomore year is 4.43; junior year is 4.62, and 4.71 at the end of senior year. This GPA calculation is based on a student enrolled in six weighted courses per year. However, due to scheduling constraints, some students may not be able to enroll in all weighted courses he/she requested during the course selection process. GPAs are recorded on the transcript both by year and cumulatively, and will be noted on the final report card of the year. It is the policy of the board to name the Valedictorian,

Salutatorian and those students who rank numbers three through ten alphabetically at the end of their senior year and those students who rank one through ten at the end of their junior year. Please see policy IKC for further details.

Note: *Dropping a class after the add/drop period will be reflected on a student's official transcript. If a student withdraws from a class after add/drop, a grade of WP or WF will be awarded based on the grade at the time of withdrawal and will not be factored into the calculation of GPA. If a student withdraws from a class at the quarter, the quarter grade will be entered and a WP or WF will be entered for the final grade. Any quarter grade of WP or WF prohibits students from being eligible for the quarter honor roll in which the withdrawal grade is awarded.*

Academic Progress

Academic Progress is available to all students and parents at all times through the PowerSchool Parent Portal. General guidelines regarding the gradebook are as follows: teachers post grades generally within 10 days from a due date and will indicate, in the PowerSchool gradebook, a missed assignment within 3 days of the original due date. These reports inform students and parents about the progress or lack of progress that has taken place. In many instances, unsatisfactory and failing grades should be followed by a student-parent-teacher conference. Parents may also want to discuss any difficulties that their son/daughter might be experiencing with their child's counselor.

All seniors are notified in writing of their graduation requirements at the start of senior year and after mid-term exams. At the end of third quarter an additional letter will be sent for those students in danger of failing a graduation requirement. These notices are intended to keep students and parents informed of graduation progress and any deficiencies that may impede graduation.

CAVBlock

Students in grades 9-11 meet in their assigned CAVBlock three times per week to confer with teachers, collaborate with peers, and complete assignments. During this 45-minute period, students may sign up for enrichment activities, access the library, attend school assemblies, School Counseling Department programs, and other scheduled school programs. Learning labs are available for those students who require additional classroom help.

Honor Roll

The scholastic Honor Roll is prepared and published at the end of each marking period to recognize outstanding academic achievement. Students must be carrying a minimum of six classes at Hollis Brookline High School to be eligible for honor roll designation. Students who drop a class and receive a grade of **WP** or **WF** as a quarter grade will be ineligible for honor roll for that term.

There are two honor roll classifications:

High Honors: Students who have received a grade of A- or higher in all subjects

Honors: Students who have received a grade of B- or higher in all subjects

Senior Options

The Senior Options Program allows 12th grade students in good academic standing to manage their time during the day when they are not scheduled for a class. The following privileges are available to seniors during their unassigned period.

- Use of the library, cafeteria and, when available, computer labs, music rooms and gym.

- The option of arriving to school after 7:40am but prior to their first scheduled class, or leaving after their last class of the day, but prior to 2:30pm.

Junior Privileges

The Junior Privileges program allows grade 11 students in excellent academic standing to manage their time if they have a study hall at the first or last period of the day. Excellent academic standing means the student must have a cumulative GPA of 3.0 or higher. In order to take advantage of this program, juniors are required to be full time eleventh graders and have no D's, F's, no major disciplinary infractions in the previous quarter, and no unexcused absences or tardies during the previous quarter. The following privilege is available to juniors with parent/guardian permission during their first or last study period of the day.

- Arrival to school just prior to their first class if they have a regular study hall the period before.
- Departure from school after their last class of the day if they have a regular study hall after.

Course Registration Procedures

Course registration begins in January/February for returning high school students and in February for 8th grade students. The process is announced by teachers and the School Counseling Department, to provide students and parents information to make appropriate course selections. Many courses have prerequisites and core courses require approval from the current teacher for enrollment. Students should discuss levels with their current teachers or core class instructors to ensure correct placement in courses. Courses are prioritized on a first-come/first-served basis once course registration closes; therefore, course registration deadlines are important. When courses fill, a wait list is established to ensure students have a fair opportunity to enroll in the classes. Students should always work with their counselor if they have any questions or concerns.

Restrictions on Course Selection

Students should choose electives at the grade level for which they are listed; however, upperclassmen may choose electives below their grade level providing there are no conflicts and there is space available.

Teacher Recommendations/Overrides

Teachers recommend the appropriate course selection for students. Experience has confirmed our belief that a student's current teacher is the most qualified person to make this recommendation based not only on the student's performance, but also on the teacher's evaluation of the student's potential and ability.

At times, parents may disagree with the teacher recommendation. When this occurs, we strongly encourage you to discuss the course selection with your child, the teacher and school counselor. Parents and students are highly cautioned about completing a **Course Override Form**. If a parent overrides a teacher recommendation and the student begins to experience difficulty in the class, **moving the student to a lower level may not be possible. In addition, your child's transcript will permanently reflect a grade of WP (withdraw/pass) or WF (withdraw/fail).** Please consider this decision carefully before taking this course of action. **Students who receive a quarter grade of WP or WF are ineligible for the quarter Honor Roll. An HBHS Override Form cannot be used to deviate from the scope and sequence of HBHS courses, and it cannot be used to override any prerequisite other than a *teacher* recommendation.**

Add/Drop Procedures

During the initial course registration phase students are asked to make their selections carefully since staff is hired and resources are allocated based on these requests. Once the master schedule is developed, **course**

changes are very limited. In the event that a schedule adjustment is necessary, an add/drop period at the beginning of each semester allows students to enroll in the courses they request in a fair and equitable manner. Those who have an incomplete schedule or are in need of a graduation requirement are seen immediately. Add/Drop begins two days after the first full day of the fall semester and runs for three days. Full year courses may only be dropped during the fall add/drop period. Second semester add/drop begins two days after the start of the spring semester and runs for two days. Only second semester courses can be adjusted at this time. Students must see their counselor and not the classroom teacher in order to make schedule changes. Wait lists are put in place to ensure fairness in the process, and students must attend the classes on their current schedule until changes have been made and a new schedule is processed by the School Counseling Department.

Note: *Requests for class placement and/or specific teachers are not allowed. Students may not drop a full year course after the fall semester add/drop period.*

Level Changes

If a student is identified as inappropriately placed in a core course a request may be considered to change the level of the course. Level changes, when necessary, are considered at the 1st and 2nd quarter. The quarter grade will be entered for the course the student has been attending. A level change will result in a WP or WF entered for the final grade. The teacher of the new course will award grades for the remaining quarters and a student's GPA will be calculated based on the weight of the course when credit is awarded.

Overview of College Admission Requirements

The choice of a high school curriculum and course selection may limit or enhance college entrance opportunities and achievement in college. Students are strongly encouraged to take as demanding a schedule as possible where they will be successful. Most successful candidates for admission to college have taken *at least* four years of English, three plus years of college preparatory mathematics, laboratory science, and social studies. Successful candidates have also completed three years of study in a single world language. However, students must read specific college catalogs to be certain of their particular requirements especially in areas such as engineering, nursing and physical therapy. A major factor leading to success in college admission and as a college student is the academic preparation a student achieves in high school. Students need to consider this as they plan for their course selection each year.

The School Counseling Department has developed a College Admission Handbook that reviews four-year course planning and the college admission process in detail. The handbook is available only through the School Counseling website. Colleges are classified according to the selectivity of their admission requirements. Students should review these categories carefully as they plan for college.

College Selectivity

Colleges may be classified according to their standards for admission. Students should carefully review these categories as they plan for college.

Most Competitive

Even superior students will encounter a great deal of competition for admission to these colleges. In general, these colleges require a class rank in the top 10 percent and grade point averages of 4.0 and above. The strongest curriculum possible in high school is required. Average test scores of admitted students are 700 to 800 on each section of the Critical Reasoning SAT and 30 or above on the ACT. These colleges typically require at least three SAT Subject tests. These colleges admit only a small percentage of those who apply.

Highly Competitive

This group of colleges is looking for students with minimum grade point averages of 3.8 and accepts most of their students from the upper 10 to 20 percent of the high school class. A very strong high school curriculum is required. Average test scores of admitted students are 650 to 800 on each section the Critical Reasoning SAT and 28 and above on the ACT. These colleges recommend that prospective students take at least three SAT Subject tests.

Very Competitive

The colleges in this category admit students whose grade point averages are no less than 3.6 and above, who rank in the top 25-30 percent of their graduating class, and who have taken a solid college preparatory and honors program in high school. Average test scores are in the 600 to 700 range on each section of the Critical Reasoning SAT and from 28 and above on the ACT.

Competitive

These schools enroll students with average test scores from 500 to 650 on each section of the Critical Reasoning SAT and from 23 to 28 on the ACT. Many colleges require a grade point average of 3.0-3.3 or higher in a solid college preparatory curriculum. Generally, these colleges prefer students in the top 30 to 40 percent of the graduating class.

Less Competitive

The colleges in this category look for students in the upper half of their graduating class who have taken a college preparatory program and have scored around 500 on each section of the Critical Reasoning SAT and 20-26 on the ACT. They admit students with a GPA range of 2.5.

Noncompetitive

Colleges in this category require only evidence of graduation from an accredited high school program or equivalent. Some require entrance examinations for course placement purposes.

Special Colleges

These colleges feature specialized programs of study. They include professional schools of art, music, or theater arts, or seminaries preparing students for the clergy. In general, admission requirements are not based on academic criteria but on evidence of talent or special interest in the area of study and often require an audition or portfolio of the student's work in order to be admitted.

Post High School Education

Some students benefit from a post graduate year of study. Students who do not feel academically, socially or emotionally ready to attend college have often found success with this option after graduation. There are a variety of schools that offer this year of study that helps students solidify their academic foundation enabling them to move on to a collegiate experience of their choice.

Post-High School Employment

Students who are interested in going on to a career immediately after high school may take advantage of career opportunities offered throughout their high school experience in order to enhance their opportunities. Employers will base their decision to employ a student on a variety of factors. These factors include high school diploma, grades, attendance record, recommendations from teachers and counselors, extracurricular activities, and personal characteristics.

Gap Year Programs

Students who would like to pursue a year of community service or volunteer opportunities prior to enrolling in college can pursue various Gap Year programs. The School Counseling office has lists of organizations that offer various programs such as City Year, Habitat for Humanity, Internships, and many more.

Career Education

An ELO is an Extended Learning Opportunity. Registering for the following courses require that students follow an **application process** and that they work with the ELO coordinator and their school counselor. ELOs are learning opportunities that happen outside of the traditional classroom setting.

H976. Internship 1

Gr. 12 .25 – 1 Credit

Semester

Prerequisite: Students must complete an ELO application.

(Career Education)

An internship is a temporary, unpaid position where a student is paired with a professional in the community in order to gain practical experience in an occupation or profession. This course is designed for motivated students seeking career exposure in a specific field. You must meet with the ELO coordinator and school counselor about placement and availability. Acceptance into this course is based on attendance, GPA and discipline record. Students may earn up to one academic credit for Internship. Students are required to work at a career-focused job site for a minimum of 40 hours (40 hours = .25 credit, 70 hours = .5 credit, 120 hours = 1 credit). Students will have scheduled meetings to review course progress. There are four required components: 1) reflection, 2) research, 3) product, and 4) presentation.

H977. Internship 2

Gr. 12 .25 – 1 Credit

Semester

Prerequisite: Students must complete an ELO application.

(Career Education)

This course is designed for students who would like to extend their Internship 1 placement, with approval from the work site mentor. Course expectations are consistent with the Internship 1 Course.

H981. Career Studies ELO

Gr 11-12 .25 – 1 Credit

Semester

Prerequisite: Students must complete an ELO application.

(Career Education)

Career Studies is an opportunity for a student to investigate a specific occupation or career path. This learning experience requires the student to conduct independent research, informational interviews with professionals and job shadows when appropriate. There are four required components: 1) reflection, 2) research, 3) product, and 4) presentation.

H1001. Work Study

Gr. 11-12

.5 Credit

Semester

Prerequisite: Students must be employed three weeks prior to enrolling in this course.

(Career Education)

By participating in this paid, out-of-school employment experience, students will increase work skills for employability and increase self-confidence for workplace readiness. Students must make an appointment with the school counselor to review course expectations and to complete paperwork. Student must return a contract signed by the employer and must submit documentation that he/she is working a minimum of ten hours per week. Students will meet with a counselor as scheduled, to review fulfillment of work that is directly related to the employment experience. In order to remain in

this course, students must complete the above requirements when they are due and receive positive performance reports from their employer.

Note: *Termination of employment by either the student or the employer prior to the end of the term will result in a grade of WF (withdraw/fail) and loss of credit.*

H1002. Work Study II

Gr. 11-12

.5 Credit

Semester

Prerequisite: Students must be employed three weeks prior to enrolling in this course.

(Career Education)

This course is designed for student who would like to extend in their work study placement. Course expectations are consistent with the Work Study 1 program

H975. Aide Positions

Gr. 11-12

.25 Credit

Semester

Aide positions are available in the following departments: Academic teachers, Office, School Counseling, Library, Athletics and Health Office. Students must gain permission from the requested faculty member as well as school counselor, administrator, and parent to pursue this credit. Grades are awarded as Pass/Fail only and students cannot earn more than 1 credit during their high school career. Pass/Fail grades do not count toward a student's GPA.

Please note: Students may only **TA** in a course they have previously completed.

*For **Career and Technical Education Programs** offered at other high schools
Please see page 71 for course descriptions and information.*

Computer Education



All computer education courses qualify as STEM related courses for New Hampshire Scholars with STEM Emphasis designation.

H352. ICT Digital Portfolio (ICT)

Gr. 9-12

.5 Credit

Demonstration of competency in Information and Communication Technology (ICT) is required by New Hampshire State Graduation Requirements. All students will complete a digital portfolio using artifacts created in regular content courses. Completion of this portfolio is graded Pass/Fail.

H363. Web Page Design

Gr. 10-12

.5 Credit

Semester

(Practical Arts)

Web Design is a project-based course that uses the CodeHS Web Design tool to teach students how to build their own web pages. Students will learn the language HTML and CSS, and will create their own live homepages to serve as portfolios. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their own multi-page websites. Students will learn the foundations of user interface design, rapid prototyping and user testing, and will work together to create professional, mobile responsive websites.

H535. Computer Science Principles +

Gr. 9-12

.5 Credit Semester

(Practical Arts & ICT)

This course is a first year computer science course introducing the basics of programming with Karel, the basics of designing a web page, and how information is represented digitally and sent over the internet. Students will create a personal portfolio website showing projects they build throughout the course. With a unique focus on creativity, problem solving, and project based learning, this course gives students the opportunity to explore several important topics of computing, using their own ideas and creativity to develop an interest in computer science that will foster further endeavors in the field.

H362. Advanced Placement Computer Science +

Gr. 10-12

1 Credit

Full Year

Weighted Course

Prerequisite: A grade of B or higher in Algebra 2 or permission of Department Chair

(Practical Arts & ICT)

This course is an introduction to the Java programming language and prepares students for the AP Computer Science exam. It is designed to give students a foundation in programming methodology and Java syntax. Topics include primitive data types, arithmetic, relational, and assignment operators, string concatenation, input/output, decision and looping structures, and arrays. Emphasis is placed on programming methodology, recursion procedural abstraction, algorithms, data structures, and data abstraction.

Note: Successful completion of the AP Computer Science exam may entitle the student to receive college credit, depending on the policy of the individual college and the test score. Students are expected to take the AP Computer Science exam at the end of this course for a fee of approximately \$95, payable to the College Board. Financial assistance is available to those who qualify for SAT waivers.

H358. Computers & Technology
(Practical Arts & ICT)

Gr. 9-12

.5 Credit

Semester

This course will introduce students to skills needed to perform many tech-support tasks. Designed as a hands-on course, students will analyze computer components, study network design and troubleshooting as well as installation of software and hardware.

H709. Video Game Design +
(Practical Arts & ICT)

Gr. 9-12

.5 Credit

Semester

Students will explore the concepts of computer programming, methods, and algorithms, including memory management, decision making, looping, objects, and lists. Students will learn why programming languages are a vehicle for implementing computer-based solutions to modern day business problems, scientific exploration, and world event-driven problems. Students will program games and solutions to real-world problems using Javascript algorithms to build interactive Android Apps. Students will have the opportunity to explore several important topics of computing, using their own ideas and creativity to develop an interest in computer science that will foster further endeavors in the field.

Engineering



All engineering courses qualify as STEM related courses for New Hampshire Scholars with STEM Emphasis designation.

HBHS is now partnering with Project Lead the Way. As outlined on their website, the **PLTW Engineering Program** provides opportunities to develop highly transferable skills in collaboration, communication, and critical thinking, which are relevant for any coursework or career. It is more than just another high school engineering program. It is about applying engineering, science, math, and technology to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the "right" answer. They learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation.

PLTW courses may be offered as part of the Running Start dual-credit enrollment program with New Hampshire Technical Institute. Students who earn a B or better and a score of 6 or better on the End-of-Course exam can apply for credits through Rochester Institute of Technology.

H704. Robotics + ^ (Practical Arts)

Gr. 9-12

.5 Credit

Semester

In this project-oriented, hands-on course, students will be exposed to basic robotics, simple machines, open-looped and closed-loop systems, sensors, feedback, and real world robotics applications. Students will use Mind storm kits to experiment with robotics and robotic mechanisms. This class requires students to work independently as well as in a group. This class is for self-motivated students with an interest in technology, robotics, or gadgets.

H710P. PLTW Digital Electronics + ^

Gr. 10-12

1 Credit

Full Year

Prerequisite: Algebra 1 or permission of Department Chair
(Practical Arts)

This is a hands-on pre-engineering course that teaches electronics, from basic circuit and electrical principles to digital concepts and devices. Students learn through theory and practice about electricity, digital logic, Boolean algebra, simplification, programmable logic devices, microprocessors, and a vast array of related topics. This course is an excellent introduction for students who are considering electrical engineering as a career path. This is a hardware course with limited programming content.

Note: *This course is taught as a dual-credit enrollment with the New Hampshire Technical Institute. Students who enroll as dual credit and successfully complete this course will be awarded 3 college credits through NHTI as well as 1 credit from HBHS. **Dual Enrollment institutions may have attendance policies for awarding credit, wherein if a student exceeds a specified number of absences, no college credit can be awarded.** Juniors and Seniors can earn credit for up to 2 STEM related courses a year for no charge under the state STEM scholarship initiative, but sophomores will be required to pay a \$150 fee for the credit. **Students may choose to obtain their dual enrollment credit through the Rochester Institute of Technology instead.** They must earn a 6 or better on the End-of-Course exam and can apply for credit up until Nov of the following year for a fee.*

H701P. PLTW Intro to Engineering Design + ^**Gr. 9-12****1 Credit****Full Year***Prerequisite: Algebra 1**(Practical Arts)*

In this course, students will dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

Note: *This course is taught as a dual-credit enrollment with the New Hampshire Technical Institute. Students who enroll as dual credit and successfully complete this course will be awarded 3 college credits through NHTI as well as 1 credit from HBHS. **Dual Enrollment institutions may have attendance policies for awarding credit, wherein if a student exceeds a specified number of absences, no college credit can be awarded.** Juniors and Seniors can earn credit for up to 2 STEM related courses a year for no charge under the state STEM scholarship initiative, but sophomores will be required to pay a \$150 fee for the credit. **Students may choose to obtain their dual enrollment credit through the Rochester Institute of Technology instead.** They must earn a 6 or better on the End-of-Course exam and can apply for credit up until Nov of the following year for a fee.*

H706P. PLTW Principles of Engineering + ^**Gr. 10-12****1 Credit****Full Year***Prerequisite: Both Algebra 1 and Geometry; should be taken concurrently with Algebra 2, or**permission of Department Chair**(Practical Arts)*

This course explores basic engineering concepts in an exciting hands-on environment. Topics include simple machines, strength of materials, thermodynamics, statistics, and structure strength. Through project-based learning, students discover the many fields of engineering, including electrical and mechanical. This course includes challenging projects, using a wide variety of technology tools that complement the course material.

Note: *This course is taught as a dual-credit enrollment with the New Hampshire Technical Institute. Students who enroll as dual credit and successfully complete this course will be awarded 3 college credits through NHTI as well as 1 credit from HBHS. **Dual Enrollment institutions may have attendance policies for awarding credit, wherein if a student exceeds a specified number of absences, no college credit can be awarded.** Juniors and Seniors can earn credit for up to 2 STEM related courses a year for no charge under the state STEM scholarship initiative, but sophomores will be required to pay a \$150 fee for the credit. **Students may choose to obtain their dual enrollment credit through the Rochester Institute of Technology instead.** They must earn a 6 or better on the End-of-Course exam and can apply for credit up until Nov of the following year for a fee.*

**H262. Senior Quest****Gr. 12****1 Credit****Full Year***A cross-disciplinary 21st Century independent project**Prerequisite: By application only. Limited to 30 students.**Elective Credit is Awarded*

A capstone to the academic career of those enrolled, Senior Quest offers students a chance to engage in a self-directed, project-based process aided by a faculty adviser. Throughout the year, Senior Quest students will develop their skills as critical thinkers, collaborators, creators, and communicators as they explore a subject of deep, personal interest. The students' project development will unfold in four phases, coinciding with each quarter, which they will document via an original website dedicated to showcasing

their experience. Their endeavor will culminate in a finished project or performance presentation open to HBHS faculty, students, and community.

Senior Quest: Honors-by-Contract

Weighted Course

Students enrolled in Senior Quest have the option of Honors by Contract. To be eligible for Honors Credit, students must agree to the terms outlined in a contract determined by the Senior Quest teacher at the beginning of the year.

English

All students need 4.5 English credits for a Hollis Brookline High School diploma. These credits include **Grade 9:** English Nine, 1 credit; **Grade 10:** English Ten, 1 credit and Writing, .5 credit; **Grade 11:** U.S Literature, Honors U.S. Literature or AP English Language, 1 credit; **Grade 12:** English electives.

H111. English 9 Read

Gr. 9

1 Credit

Full Year

Prerequisite: Recommendation of Department Chair and/or Case Manager
(English Nine)

English Nine Read is a basic, introductory language arts course designed to meet the needs of students deficient in reading skills. Students work extensively in the areas of vocabulary building and reading development. Admission to the course will depend, in part, on the results of standardized reading tests. Other factors to be considered are teacher recommendations and other school specialists' input.



H112. English 9 (English Nine)

Gr. 9

1 Credit

Full Year

English Nine is an introductory language arts course. Areas of study are composition, reading, vocabulary development, reading development, literature, research and library skills, and daily language activities focusing on punctuation, grammar, and usage. The reading list includes an introduction to selected classic and contemporary literature, surveying the genres of the short story, the novel, drama, and poetry. Students develop skills in reading for detail as well as for overall comprehension. They refine their understanding of paragraph development and practice basic techniques of writing in various forms, including the essay. Students practice oral communication skills through participation in a speech unit.



H113. Accelerated English 9 (English Nine)

Gr. 9

1 Credit

Full Year

Accelerated English Nine is intended for those students who have demonstrated a mastery of many of the skills detailed in the English Nine course description. They should write proficiently, read insightfully, and articulate skillfully. Areas of study include those listed for English Nine, with additional emphasis on more intensive literary interpretation. Admission to this course is based on the recommendation of the student's 8th grade English teacher. *(Students who select this class will be required to complete reading/assignments during the **previous** summer.)*

H121. English 10 Read

Gr. 10

1 Credit

Full Year

Prerequisite: Recommendation of Department Chair and/or Case Manager
(English Ten)

English Ten Read is a continuation of English Nine Read. An emphasis on oral reading is intended to sharpen fluency and comprehension. There will be a continuation of essay writing for a variety of purposes with an emphasis on organization of ideas. Special units of study may include study skills, test-taking skills, speaking and listening skills, reading comprehension, and grammar, as needed. Admission to the course is based on the recommendations of the student's 9th grade English teacher.

**H122. English 10****Gr. 10****1 Credit****Full Year***Prerequisite: English Nine**(English Ten)*

English Ten is a continuation of English Nine, focusing on composition, vocabulary and reading development, literature, and daily language activities in punctuation, grammar, and usage. Composition work is expanded to include longer formal and informal essays. The study of the novel, play, short story, and poetry emphasizes more sophisticated methods of literary analysis. The literary essay may be introduced as an additional genre. Students practice oral communication skills through participation in a speech unit. The course also includes weekly vocabulary development and the basic library skills necessary to complete a research project or paper.

**H123. Accelerated English 10****Gr. 10****1 Credit****Full Year***Prerequisite: A grade of B- or higher in English Nine and teacher recommendation**(English Ten)*

Accelerated English Ten includes those areas listed in English Ten, with emphasis on abstract, critical thinking, literary criticism, and more extensive library research. Admission to Accelerated English Ten is based on the recommendation of the student's 9th grade English teacher. *(Students who enroll in this course will be required to complete a summer assignment **prior** to the start of class.)*

H136. Writing**Gr. 10****.5 Credit****Semester***(Writing)*

This 10th grade requirement is a half-year course that improves students' performance in the four domains of descriptive, narrative, expository, and persuasive writing. Course work includes basic skills needed in everyday written communication and in academic assignments, as well as writing for enjoyment. Student evaluation is based on all the stages of the writing process, including drafting, revising, editing, and final product. Students are expected to participate in teacher conferences and peer response groups in order to develop the ability to evaluate, revise, and edit writing. As a major unit, students will demonstrate mastery in a culminating project that includes a formal research paper; students may be required to present parts of this project to their classmates.

H136C. Running Start College Composition (Writing)**Gr. 10****.5 Credit****Semester***Prerequisite: Recommendation of 9th grade teacher*

Students learn to write clearly and effectively for defined audiences through a range of strategies. Emphasis is on the writing process from pre-writing through drafting, revising, and editing. Students gain confidence by learning the basic principles of effective expository composition and the application of these principles in writing essays and documented papers. Students become aware of the variety of strategies, behaviors, habits, and attitudes and choose those that help them improve. Students also will read and examine an assortment of writers and writing styles.

Note: This 10th grade course is taught as a dual-credit enrollment with Nashua Community College (NCC) through the Running Start program. Students who enroll for dual credit and successfully complete this course will be awarded 3 college credits through NCC as well as .5 credits from HBHS. **Dual Enrollment institutions may have attendance policies for awarding credit, wherein if a student exceeds a specified number of absences, no college credit can be awarded.** A mandatory \$150 NCC course fee plus approximately \$65-\$90 for a required text (depending on used vs new) is required. Payment and official enrollment for college credit are typically required 3-5 weeks into the course.

H132. Fundamentals of English**Gr. 11-12****1 Credit****Full Year***Prerequisite: Recommendation of Department Chair and/or Case Manager*

(U.S. Literature)

This course is designed to strengthen the basic skills of reading, writing, speaking, and listening. Emphasis will be placed on developing and strengthening oral and independent reading skills. Students will write for a variety of real-world and academic purposes and use these skills to successfully analyze, interpret, and explain different kinds of information. Course readings focus on a mixture of fiction and nonfiction texts. In addition to reading and writing, units will focus on developing and reinforcing communication skills. Placement in this course is determined by teacher referral, departmental assessments, or performance on required state assessments.

**H151. U.S. Literature****Gr. 11****1 Credit****Full Year***Prerequisite: English Ten*

(U.S. Literature)

This course involves reading and interpreting texts in a variety of genres, from a wide range of writers from different periods in American literary history. Material is organized around a number of specific themes, including, for example, "Individual Needs and Social Expectations," "The Nature of American Freedom," "The American Dream," "Times of Conflict," and "The Expanding Nation." Students are taught to read with greater understanding and insight, exposed to numerous on-demand writing experiences, and expected to participate productively in large and small group discussions. The course also includes weekly language activities focused on punctuation, grammar, and usage, as well as a year-long vocabulary program. Students will also complete a research paper incorporating literary criticism.

**H171. Honors U.S. Literature****Gr. 11****1 Credit****Full Year***Weighted Course**Prerequisite: A grade of B- or higher in English Ten and teacher recommendation*

(U.S. Literature)

This course is recommended for students who have demonstrated that they can both read with advanced understanding and insight as well as write with sophisticated voice and purpose. Honors United States Literature students must demonstrate competency in formal writing, public speaking, critical thinking, prepared academic discussion, independent study, and well-developed listening and note-taking skills. Furthermore, students electing this honors-level course do so with the expectation of lengthy daily reading assignments and frequent, challenging research and critical analysis essays. The course also includes weekly language activities focused on punctuation, grammar, and usage, as well as a year-long vocabulary program. The requirements and subject matter of this course are designed as a preparation for post-secondary education and demand a personal and academic commitment. Students will be exposed to a variety of literary genres and a myriad of works by American authors.

Note: Students will be required to complete a summer assignment **prior** to the start of class.

**H154. Advanced Placement English Language & Composition****Gr. 11****1 Credit****Full Year***Weighted Course**Prerequisite: A grade of B- or higher in English Ten and teacher recommendation*

(U.S. Literature)

This college level course involves the reading and interpretation of representative texts in a variety of genres. The AP English Language curriculum balances fiction and non-fiction helping students deepen their understanding and awareness of how language works by focusing on three skills: analysis (with a focus on rhetoric), argument, and synthesis. Students focus on nonfiction (essays, biographies, autobiographies, speeches, newspaper and magazine articles) as well as texts by a number of classic

American authors. Students will consider the visual media that surrounds them whether spoken, displayed, or broadcasted. Students will write timed essays in class as well as completion of essays requiring multiple drafts, revision conferencing and final proofreading. This course is recommended for students who have an appreciation for language, have demonstrated they can read with considerable understanding and insight, and can write correctly, effectively, and gracefully. Students electing this AP course should expect longer daily reading assignments as well as frequent, challenging writing assignments. *Students will be required to complete an extensive and demanding assignment during the summer.*

Note: Successful completion of the AP English Language exam may entitle the student to receive college credit, depending on the policy of the college and the test score. Students are expected to take the AP English Language exam at the end of this course for a fee of approximately \$95, payable to the College Board. Financial assistance is available to those who qualify for SAT waivers.

The Elective Program in English

The English elective program offers students an opportunity to select courses that serve their individual interests and needs. It is designed to provide students with a range of academic choices aligned with the HBHS Core Values. Accordingly, all English electives promote the following skills: reading and writing fluently, expressively, and accurately; listening and speaking with sensitivity and discrimination; problem solving logically and analytically; using creative abilities in original and productive ways; and using critical abilities to recognize and value excellence and quality.

The degree of course difficulty varies within the program. Students and parents should read the course descriptions carefully to ensure selection of the appropriate elective. Degree of difficulty is clarified in the course description. At times, specific recommendations are included to assist in the selection.



H184. Advanced Placement English Lit. & Composition

Gr. 12

1 Credit

Full Year

Weighted Course

Prerequisite: *A grade of B- or higher in 11th grade English and teacher recommendation (English)*

The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of literature. Through the close reading of selected texts, students will develop their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Students will consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Writing is an integral part of this course: assignments will focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Units include practice in timed-essay writing and applying the various forms of literary criticism. Although critical analysis makes up the majority of student writing for the course, well-constructed creative writing assignments help students see from the inside how literature is written. Participation in the course will be based on previous grades and departmental recommendation. Students electing this AP course should expect longer daily reading assignments as well as frequent, challenging writing assignments. *Students will be required to complete an extensive and demanding assignment during the summer.*

Note: Successful completion of the AP English Literature exam may entitle the student to receive college credit, depending on the policy of the individual college and the test score. Students are expected to take the AP English Literature exam at the end of this course for a fee of approximately \$95, payable to the College Board. Financial assistance is available to those who qualify for SAT waivers.

**H137. Advanced Writing****Gr. 11-12****.5 Credit****Semester***Prerequisite: Writing*
(English)

This course is designed to meet the needs of motivated, disciplined writers. Course content focuses on fiction, prose, personal essays, poetry and writing portfolios. The instructor encourages students to contact colleges, pursue publication opportunities, and enter creative writing contests, to extend students' mastery of the writer's craft. Students produce a portfolio of work, which they may use as a part of their college application.

**H164. Film Studies****Gr. 10-12****.5 Credit****Semester**

(English)

This introduction to film studies is designed to help students develop a greater appreciation for film. Students will explore and analyze elements of classical and contemporary films in a wide variety of genres through literary, dramatic, and cinematic lenses. In addition, students will examine basic film theory and criticism from an historical and cultural perspective. Evaluation will be based on oral and written expression, independent projects, and assigned readings.

**H180. Honors Literature****Gr. 12****1 Credit****Full Year****H183. Honors Literature****Gr. 12****.5 Credit****Semester***Prerequisite: A grade of B- or higher in 11th grade English and teacher recommendation**Weighted Course*

(English)

Honors Literature is an advanced level program intended for students who have demonstrated a high aptitude in the areas of reading comprehension, literary interpretation, and writing about literature. Honors Literature students read substantial portions of the Bible and numerous texts from the literatures of Greece and Rome. In addition to improving traditional language arts skills, the examination of this important body of literature enhances and enriches students' engagement with all Western literature and history, preparing them for college-level humanities courses.

Note: *Students will be required to complete an extensive and demanding summer assignment prior to the start of class. Students may sign up for a semester or a full year class.*

**H140. Journalism 1****Gr. 10-12****.5 Credit****Semester**

(English)

Students in this course learn and apply twenty-first century writing technology and communication tools. Additionally, students will serve as staff writers, design members, marketing team members, and staff photographers for school publications. Because students in this course work on real projects with real consumers, this course also provides hands-on experience for the world of work, including functioning as part of a team, meeting project deadlines, working with new technology, and communicating with the public.

**H150. Journalism 2****Gr. 10-12****.5 Credit****Semester***Prerequisite: A grade of B- or higher in Journalism 1*

(English)

Students in this course continue to learn twenty-first century writing technology and communication tools. Additionally, students will serve as staff writers, design members, marketing team members, and staff photographers for school publications. Because students in this course work closely with Journalism 1 students, the course also provides experience in peer-coaching and team leadership. Students produce a portfolio of work, which they may use as part of their college application.



H138. Memoirs and Biography I

Gr. 11-12

.5 Credit

Semester 1

H133. Memoirs and Biography II

Gr. 11-12

.5 Credit

Semester 2

(English)

These electives focus on reading memoirs and biographies chronicling real-life situations in which individuals have overcome significant adversities. These adversities may range from overcoming racism, coping with and learning about serious illness, to surviving family hardships. The course involves reading memoirs, biographies, and autobiographies for enjoyment, comprehension, and interpretation. Students will also be expected to write memoirs based on personal experiences as well as other genres of writing. Each unit will also include vocabulary work, research and oral/visual projects, and daily language activities focused on punctuation, grammar, and usage. Students may enroll in either Semester 1, Semester 2, or both.



H139. Poetry

Gr. 10-12

.5 Credit

Semester

Prerequisite: Writing

(English)

Poetry focuses on the potential for beauty and communication inherent in the English language. Through both reading and writing, participants explore the secret lives of words, investigating how and why they exist in poetry and poetics. At the core of this course is the recognition that carefully chosen, effectively arranged words have the ability to evoke powerful thoughts and emotions in the reader. Students produce a portfolio of work, which they may use as part of their college application. Poetry is recommended for those students who intend to go on to post-secondary education.

H141. Popular Reading

Gr. 11-12

1 Credit

Full Year

H143. Popular Reading

Gr. 11-12

.5 Credit

Semester

Prerequisite: Recommendation of Department Chair, and/or Case Manager

(English)

Popular Reading is intended for those students who enjoy reading, have difficulty with assigned reading in other English courses and require assistance with writing, organization and study skills. Alternating between fiction and non-fiction, students read novels, as well as newspapers, magazines, essays, biographies, and popular histories. Participants prepare written reactions to these readings and participate in daily discussions.



H185. Science Fiction

Gr. 11-12

.5 credit

Semester

(English)

Science fiction often reflects the way we live in the twenty-first century and informs how we understand our world. This course will examine science fiction through some of its most influential works in the novel, short story, graphic novel and film formats. Students will be expected to respond to the readings via an online journal, participate in class discussions both online and in person, write short researched analysis pieces, and produce a creative piece using research. In addition, science fiction films (either whole or in part) will be viewed and analyzed. By the end of the course students are expected to have an understanding of the genre and identify its broad cultural impact.

**H153. World Literature****Gr. 12****.5 Credit Fall Semester****H152. Running Start World Literature
(English)****Gr. 12****.5 Credit Spring Semester**

Focus is on writing about literature. Reading selections range from ancient through modern texts from around the world including the British Isles, the Mediterranean, Western Europe, Africa, the Middle East, and Latin America. Discussion and writing about universal themes and issues in literature is the primary focus. Selections include readings from many genres: fiction, non-fiction, drama, poetry, and film. The course balances close reading of some selections and wide reading of others. Research or oral/visual projects as well as daily language activities focusing on grammar, punctuation, and usage are integrated into each unit. Structured essays that analyze and synthesize information from the readings are also components of the course.

Note: This 12th grade course is taught as a dual-credit enrollment with Nashua Community College (NCC) through the Running Start program. Students who enroll for dual credit and successfully complete this course during the spring semester only will be awarded 3 college credits through NCC as well as .5 credits from HBHS. **Dual Enrollment institutions may have attendance policies for awarding credit, wherein if a student exceeds a specified number of absences, no college credit can be awarded.** There is a mandatory \$150 NCC course fee plus about \$61 for a list of required texts. Payment and official enrollment for college credit are typically required 3-5 weeks into the course.

**H262. Senior Quest****Gr. 12****1 Credit****Full Year**

A cross-disciplinary 21st Century independent project

Prerequisite: By application only. Limited to 30 students.

Elective Credit is awarded

A capstone to the academic career of those enrolled, Senior Quest offers students a chance to engage in a self-directed, project-based process aided by a faculty adviser. Throughout the year, Senior Quest students will develop their skills as critical thinkers, collaborators, creators, and communicators as they explore a subject of deep, personal interest. The students' project development will unfold in four phases, coinciding with each quarter, which they will document via an original website dedicated to showcasing their experience. Their endeavor will culminate in a finished project or performance presentation open to HBHS faculty, students, and community.

Senior Quest: Honors-by-Contract**Weighted Course**

Students enrolled in Senior Quest have the option of Honors by Contract. To be eligible for Honors Credit, students must agree to the terms outlined in a contract determined by the Senior Quest teacher at the beginning of the year.

Family and Consumer Sciences

The mission of the Family and Consumer Sciences Department is to prepare students for family, work, and community life. The philosophy focuses on empowering individuals, strengthening families, and enabling communities.

H833. Fashion & Retail Merchandising (Practical Arts)

Gr. 9-12

.5 Credit

Semester

This semester course explores careers in the business and retail industries. Instruction includes the marketing of apparel as well as retail and fashion merchandising. Units of study include the history of the fashion industry; fibers, fabrics, and finishes; producing fashion; fashion marketing; and career exploration.

H810. Foods & Nutrition 1 (Practical Arts)

Gr. 9-12

.5 Credit

Semester

Foods and Nutrition 1 is an introductory course in food science and nutrition. This course provides many life skills and explores the relationship between diet and health. With an emphasis on the MyPyramid guidelines, students discover the ability to cook properly, leading to successful food preparation. Students are also involved in technology based learning. Students will create tasty foods and snacks to meet their nutritional needs, while applying food safety and sanitation techniques at all times.

H811. Foods & Nutrition 2

Gr. 9-12

.5 Credit

Semester

Prerequisite: Foods & Nutrition 1
(Practical Arts)

Foods and Nutrition 2 is an advanced nutrition and culinary arts class. This class will help students separate nutrition facts from fiction. Special attention will be given to diet and disease, phytochemicals, and two units that research the relationship between "Sugar and Health Issues" and "Food Additives." Students will explore career opportunities in food science and nutrition, and will use a professional software program to analyze their diets and recipes and to create healthy meal plans. Culinary units will enhance all coursework and will include special projects in gourmet cooking, international foods, cake decorating, and garnishing.

H831. Human Relations (Practical Arts)

Gr. 10-12

.5 Credit

Semester

Human Relations focuses in-depth on all aspects of individual and family development. Interpersonal relationships and positive methods of communicating with others will be studied through many team-building activities and discussion groups. This course is geared toward students interested in maximizing their individual potential by studying units such as healthy relationships, personality, friendships, and family. Included in the family unit is an opportunity to take a baby mannequin home for 24 hours. A career unit gives students the opportunity to investigate managing multiple life roles. Human Relations also explores citizenship and includes at least one community service learning project.

H832. Interior Decorating**Gr. 9-12****.5 Credit****Semester**

(Practical Arts)

This course explores the fundamentals of interior design. Students learn how to express their creativity through the use of color, line, texture, and space in a variety of hands-on projects. Furniture, the history of design, and careers are all explored.

H620. Personal Finance +**Gr. 10-12****.5 Credit****Semester**

(Practical Arts)

This course will focus on the six aspects of personal financing as outlined by The National Endowment for Financial Education: (1) The financial planning process, (2) Goal setting, (3) Career decisions entrepreneurship, (4) Budgeting and cash flow, (5) Insurance, and (6) Saving/Investing.

Mathematics

Three (3) mathematics credits are required for graduation from Hollis Brookline High School; one of these credits must be Algebra 1. College-bound students should plan a sequence of courses through at least Algebra 2 to meet the entrance requirements of most colleges and universities. It is recommended that students have a grade of **C** or higher before moving to the next course.

Beginning with the Class of 2019, all high school students must engage in a math experience for every year they are in high school until graduation. Courses that qualify as a math experience are designated by a “+” throughout the Program of Studies, or as approved at the discretion of the superintendent or designee. All math classes qualify.

The following chart shows the sequencing of mathematics courses at Hollis Brookline High School. Cross movement between levels is possible according to student performance and with teacher recommendation. Students will be advised by their current math teacher as to the next appropriate course in the sequence. **Incoming ninth grade students may be given a math placement exam at the conclusion of eighth grade to ensure proper placement. Results of this test may change course placement.** VLACs students must be issued a transcript showing credit earned prior to enrolling in the next course sequence at HBHS. Students seeking enrollment in an HBHS Accelerated/Honors course after taking a VLACs course must have completed the Accelerated/Honors level of the previous VLACs course.

HBHS Mathematics Department Course Sequencing

8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Grade 8 Math	Algebra 1 ^a	Algebra 1B	General Geometry	Running Start (RS) Algebra 2 with Quantitative Reasoning
Grade 8 Math	Algebra 1	Geometry	RS Algebra 2 with Quantitative Reasoning	RS Algebra 3/Trig Personal Finance or other 4 th year math experience
Grade 8 Math	Algebra 1	Geometry	Algebra 2	RS Algebra 3/Trig Pre-Calculus
Algebra	Geometry	Algebra 2	Pre-Calculus	Calculus AP Statistics
Algebra	Accelerated Geometry	Accelerated Algebra 2	Honors Pre-Calculus	AP Calculus AP Statistics

H310. Individualized Math Program**Gr. 10-12****1 Credit****Full Year***Prerequisite: Approval by Department Chair and Special Education Coordinator*

(Mathematics)

The Individualized Math Program allows the student to work at his/her own pace to complete certain mathematics courses in the HBHS curriculum. Upon successful completion of course work, the transcript will reflect the content of the actual course completed.

H311A. Algebra 1A**Gr. 9****1 Credit****Full Year***Prerequisite: Recommendation of 8th grade math teacher*

(Mathematics)

The Algebra 1A and Algebra 1B program will allow students to take Algebra 1 over two years. Algebra 1A introduces students to the structure of algebra. Students will work with expressions, solve, write and graph linear equations and linear inequalities. Students will be introduced to functions and polynomials and complete a statistics unit. Students are expected to perform basic computations without the use of a calculator. Throughout the course, reference is made to real-life applications.

H311B. Algebra 1B**Gr. 10****1 Credit****Full Year***Prerequisite: Algebra 1A*

(Algebra 1)

This course will continue in the Algebra 1 curriculum where Algebra 1A left off. Topics will include graphing and solving systems of linear equations including application problems, working with exponents, polynomials, and rational expressions. Students will solve quadratic equations by factoring and the quadratic formula and work with radical expressions.

**H312. Algebra 1****Gr. 9****1 Credit****Full Year***Prerequisite: Recommendation of 8th grade math teacher*

(Algebra 1)

This course is designed to introduce students to the structure of algebra. Students solve and graph linear equations and linear inequalities, solve and graph systems of linear equations and write linear equations to model real-world problems. Students will work with exponents, polynomials, radicals, and functions. Students will learn to factor quadratic expressions and solve quadratic equations by factoring and with radicals. Students are expected to perform basic computations without the use of a calculator. Throughout the course, reference is made to real-life applications.

H327. General Geometry**Gr. 10-11****1 Credit****Full Year***Prerequisite: Algebra 1B or Algebra 1*

(Mathematics)

General Geometry stresses the applications of the structure of geometry. Emphasis is placed on applying definitions and conjectures. Topics include defined and undefined terms, angles, perpendicular lines, parallel lines, congruent triangles, similar polygons, circles, areas and volumes, quadrilaterals and constructions. Basic algebra skills are applied continuously to help enhance geometric concepts taught. The course is not intended for students who wish to major in mathematics, science, engineering, or computer science.

**H324. Geometry****Gr. 9-11****1 Credit****Full Year**

Prerequisite: Algebra 1 or permission of the Department Chair
(Mathematics)

This course introduces students to the applications of geometry in the real world. Each course unit has a real-world theme and utilizes a guided-discovery approach to learn the geometric concepts taught. Students will study angle relationships, triangles, quadrilaterals, other polygons, right triangle trigonometry, circles, and 3-D solids. Students will study geometric theorems, write mathematical proofs and make connections between algebra and geometry.

**H328. Accelerated Geometry****Gr. 9-10****1 Credit****Full Year**

Prerequisite: Recommendation of Algebra 1 teacher or permission of the Department Chair
(Mathematics)

The underlying goal of this course is to teach students to think analytically and creatively to solve thought-provoking and interesting problems. This course is designed to go beyond memorization and repetition to challenge students to think in new and creative ways. This course includes standard topics in geometry as well as formal proof, trigonometry, literal equations, formula development, and connections between algebra and geometry. The accelerated-level student is expected to demonstrate a higher level of mathematical understanding and aptitude and to enjoy being challenged by higher order thinking problems.

**H321. Algebra 2****Gr. 10-12****1 Credit****Full Year**

Prerequisite: Accelerated Geometry, Geometry or permission of the Department Chair
(Algebra/Mathematics)

Algebra 2 is a continuation of Algebra 1 and is recommended for most college-bound students. The course content includes algebraic relations and functions, matrices, vectors, conic sections, polynomials, rational exponents, quadratic equations and use of the quadratic formula, sketching quadratic relations, real numbers as exponents, logarithms, and complex numbers. A graphing calculator (TI- 84+) is required.

H322. Running Start Algebra 2 w/Quantitative Reasoning**Gr. 11-12****1 Credit****Full Year**

Prerequisite: General Geometry, Geometry or permission of the Department Chair
(Algebra/Mathematics)

Algebra 2 is a continuation of Algebra 1 and is recommended for most college-bound students. The course content includes solving and graphing equations and inequalities including absolute value, polynomials, radical, and exponential functions, along with linear systems; modeling real world situations with the appropriate function; complex numbers; right triangle trigonometry; statistics and probability, including combinations and permutations; set theory; finance applications, including the compound interest formula. This course is not intended for students who wish to major in mathematics, science, engineering, or computer science.

Note: This course is taught as a dual-credit enrollment with Nashua Community College. Students who enroll with NCC as part of the dual-enrollment program and successfully complete this course will be awarded 4 college credits through NCC as well as 1 credit from HBHS. **Dual Enrollment institutions may have attendance policies for awarding credit, wherein if a student exceeds a specified number of absences, no college credit can be awarded.** Juniors and Seniors can earn credit for up to 2 STEM related courses a year for no charge under the state STEM scholarship initiative, but sophomores will be

required to pay a \$150 fee for the credit. Official enrollment for college credit is typically required 3-5 weeks into the course.



H323. Accelerated Algebra 2

Gr. 9-11

1 Credit

Full Year

Prerequisite: Accelerated Geometry, Geometry, or permission of the Department Chair (Algebra/Mathematics)

This course is intended for students with exceptional ability in mathematics. Students are expected to be capable of extensive critical thinking, problem solving, and synthesizing new material. The accelerated-level student is expected to demonstrate a higher level of mathematical understanding and aptitude and to readily grasp new mathematical concepts. All Algebra 2 topics are covered in greater depth and additional topics are introduced. More emphasis is placed on multi-step problem solving. A graphing calculator (TI- 84+) is required.



H343R. Running Start Algebra 3/Trigonometry

Gr. 11-12

1 Credit

Full Year

Prerequisite: Algebra 2, a B- or higher in RS Algebra 2, or permission of the Department Chair (Mathematics)

This math course continues the study of mathematics with the focus on functions (quadratic, polynomial, exponential and logarithmic) and trigonometry. Emphasis is placed on real-life applications. A graphing calculator (TI-84+) is required. Students who have successfully completed Pre-Calculus may not take Algebra 3/Trigonometry. Students may not take Algebra 3/Trigonometry and Pre-Calculus concurrently.

Note: *This course is taught as a dual-credit enrollment with Nashua Community College. Students who enroll with NCC as part of the dual-enrollment program and successfully complete this course will be awarded 4 college credits through NCC as well as 1 credit from HBHS. **Dual Enrollment institutions may have attendance policies for awarding credit, wherein if a student exceeds a specified number of absences, no college credit can be awarded.** Juniors and Seniors can earn credit for up to 2 STEM related courses a year for no charge under the state STEM scholarship initiative, but sophomores will be required to pay a \$150 fee for the credit. Official enrollment for college credit is typically required 3-5 weeks into the course.*



H344. Pre-Calculus

Gr. 11-12

1 Credit

Full Year

Prerequisite: Algebra 2 (Mathematics)

This course is divided into the following units: functions, graphs and applications, trigonometry, sequences and series, and analytic geometry topics involving graphing. The course stresses less theory and more mechanical application of the above topics. A graphing calculator (TI- 84+) is required.

Note: *Students who plan to take AP Calculus must take Honors Pre-Calculus, not Pre-Calculus.*



H345. Honors Pre-Calculus

Gr. 10-12

1 Credit

Full Year

Weighted Course

Prerequisite: Accelerated Algebra 2 or permission of Department Chair (Mathematics)

This rigorous Pre-Calculus course is divided into the following units: functions, graphs and applications, trigonometry including polar coordinates, sequences and series, and limits. The theory and application of pre-calculus topics is strongly stressed. A graphing calculator (TI 84+) is required.

**H346. Calculus****Gr. 11-12****1 Credit****Full Year**

Prerequisite: Pre-Calculus or Honors Pre-Calculus
(Mathematics)

This is an introductory course in differential and integral calculus. Students study basic limit theorems, differentiation techniques and integration of polynomials and transcendental functions with applications of both. This course stresses the mechanics of calculus rather than its theory. A graphing calculator (TI-84+) is required. **This course does not prepare students for the AP Calculus exam.**

Note: *This course is taught as a dual-credit enrollment with Southern New Hampshire University. Students who enroll with SNHU as part of the dual-enrollment program and successfully complete this course will be awarded 3 college credits through SNHU as well as 1 credit from HBHS. **Dual Enrollment institutions may have attendance policies for awarding credit, wherein if a student exceeds a specified number of absences, no college credit can be awarded.** For any students selecting the dual-enrollment option, there is a mandatory \$100 fee paid to SNHU. Payment and official enrollment for college credit is typically required 3-5 weeks into the course.*

**H347. Advanced Placement Calculus****Gr. 11-12****1 Credit****Full Year**

Weighted Course

Prerequisite: A grade of B- or higher in Honors Pre-Calculus or permission of the Department Chair
(Mathematics)

This Advanced Placement course covers differential and integral calculus. The theory of The Calculus, the application of differentiation and integration to solve problems, and extensive work with the theory of limits and continuity are stressed. An approved graphing calculator is required.

Note: *Successful completion of the AP Calculus exam may entitle the student to receive college credit, depending on the policy of the individual college and the test score. Students are expected to take the AP Calculus exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.*

**H335. Advanced Placement Statistics****Gr. 11-12****1 Credit****Full Year**

Weighted Course

Prerequisite: A grade of B or higher in Accelerated Algebra 2 or Pre-Calculus, or permission of the Department Chair
(Mathematics)

This course exposes students to four broad conceptual themes: exploring data, observing patterns and departures from patterns, planning a study and statistical inference. This course follows the AP Statistics curriculum established by the Educational Testing Service. A graphing calculator (TI 84+) is required.

Note: *Successful completion of the AP Statistics exam may entitle the student to receive college credit, depending on the individual college and the test score. Students are expected to take the AP Statistics exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.*

**H262. Senior Quest****Gr. 12****1 Credit****Full Year**

A cross-disciplinary 21st Century independent project
Prerequisite: By application only. Limited to 30 students.
Elective Credit is Awarded

A capstone to the academic career of those enrolled, Senior Quest offers students a chance to engage in a self-directed, project-based process aided by a faculty adviser. Throughout the year, Senior Quest students will develop their skills as critical thinkers, collaborators, creators, and communicators as they explore an subject of deep, personal interest. The students' project development will unfold in four phases, coinciding with each quarter, which they will document via an original website dedicated to showcasing their experience. Their endeavor will culminate in a finished project or performance presentation open to HBHS faculty, students, and community.

Senior Quest: Honors-by-Contract

Weighted Course

Students enrolled in Senior Quest have the option of Honors by Contract. To be eligible for Honors Credit, students must agree to the terms outlined in a contract determined by the Senior Quest teacher at the beginning of the year.

Physical Education

Physical Education is an integral aspect of the learning process. This program contributes to the development of health through a variety of movement activities, skills and knowledge necessary to promote lifetime fitness, social cooperation and a healthy well-being. In addition, there are significant intellectual and emotional benefits. Students learn to cooperate as members of a team according to the rules of fair play and good sportsmanship. Students are expected to display tolerance and respect for others as a positive contributor. Physical Education grades are based on the attributes of preparation, effort, application, improvement, and skill.

H957. Fitness	Gr. 9	.5 Credit	Full Year
<i>Must be taken in conjunction with Wellness</i>			Every Other Day
(Physical Education)			

This is a required course for graduation from HBHS. The curriculum areas emphasized at this level develop a working understanding of lifetime fitness. Students take part in Project Adventure (including high ropes course), team building, and fitness assessment education. Over the course of the year students set fitness goals and develop a personal wellness plan for lifelong fitness.

H405. Wellness	Gr. 9	.5 Credit	Full Year
<i>Must be taken in conjunction with Fitness</i>			Every Other Day
(Health Education)			

This is a required course for graduation from HBHS. It covers a variety of subjects concerning a student's well-being and decision making. Topics include tolerance, stress management, self-esteem, health and fitness, body image, media literacy, nutrition, sexuality, and drug prevention. Students set goals that they work to achieve over the course of the year to improve their level of wellness.

Alternative Physical Education credit

Beginning with the 2019-2020 Academic Year, students in grades 10, 11, & 12 may count their participation in an Athletics Program at HBHS or Approved Community Based Physical Education Activity. Students will sign a contract that will double as an application. Once accepted, students will keep track of their hours on the approved time card provided. Students will submit their time cards for final approval at the end of the activity. Students may earn a maximum of a ½ credit through an approved sport of ACBPE during their time at HBHS. This credit may only be counted as Pass/Fail.

Physical Education Electives

Any of the classes listed below meet the physical education requirement for grades 10-12. These classes cover a broad range of activities such as team and individual sports, fitness activities, winter activities, and Project Adventure. Electives are offered on a rotating basis, with relevance to the season of the year. Classes are offered each semester and meet daily. The focus for each of these classes is to expand on basic skills learned in previous physical education classes and to participate at a more advanced and in depth level.

H941. Dance, Movement & Music	Gr. 9-12	.5 Credit	Semester
(Arts Education or Physical Education)			

This course is designed for the beginning to intermediate dance student. It introduces students to sequential skills in dance performance and choreography. Students learn a variety of dance styles

including jazz, tap, and modern. Students are encouraged to participate in the creative process and discover their own movement potential. Students also develop a historical perspective regarding dance through the study of many styles and genres of dance. **Participation in functions during school and after school hours is expected.**

Note: *This course may be taken more than once during a student's high school career.*

H945. Outdoor Adventures (Spring Semester)	Gr. 10-12	.5 Credit	Semester
---	------------------	------------------	-----------------

Prerequisite: Fitness/Wellness
(Physical Education)

This class, which is offered second semester, includes the following activities: Project Adventure activities including high ropes initiatives, winter activities of snowshoeing and cross country skiing, and map and compass/orienteering activities, hiking, and hiking safety. Group challenges and initiatives take place on the low elements of the challenge course. Students are given ample opportunity for individual challenge and personal growth consistent with the Challenge by Choice philosophy. This course is intended for outdoor activities, appropriate clothing for winter conditions is required.

Note: *Students may take up to one credit of this class during their high school career.*

H949. Personal Fitness	Gr. 10-12	1 Credit	Full Year
H950. Personal Fitness	Gr. 10-12	.5 Credit	Semester

Prerequisite: Fitness/Wellness
(Physical Education)

The curriculum for this course is centered on strength training, aerobic fitness, flexibility, biomechanics, kinesiology, and exercise physiology. The main goal is to establish, understand, and improve personal fitness levels. A personal fitness plan with individual goals will be developed and monitored throughout the semester. Different fitness assessments will be done throughout the semester to monitor progress. Topics such as sports nutrition, human muscular and skeletal systems, power lifting, cross training, and sport-specific training will be covered.

Note: *Students may take up to two credits of this class during their high school career.*

H958. Physical Education	Gr. 10	.5 Credit	Semester
---------------------------------	---------------	------------------	-----------------

Prerequisite: Fitness
(Physical Education)

This class will introduce students to a variety of movement concepts, skills and the knowledge necessary to promote lifetime fitness, social cooperation and a healthy well-being. Activities emphasize fundamental strategies and tactics successful for an array of sports and recreational games. This class is also an introduction to elective classes that may be taken as a junior or senior and will include activities such as high ropes course climbing, implementation of fitness routines, and participation in a variety of team and individual sports.

H948. Team and Individual Sports (Fall Semester)	Gr. 10-12	.5 Credit	Semester
---	------------------	------------------	-----------------

Prerequisite: Fitness/Wellness
(Physical Education)

The focus of this course, which is offered first semester, is to expand on basic skills developing an advanced level of performance and understanding within the areas of rules, strategies and game play. Curriculum covers a broad range of units which will challenge the individual student's overall fitness training. Various methods of assessment will be utilized including student participation in class projects and presentations to show proficiency of understanding.

Note: *Students may take up to one credit of this class during their high school career.*

Science

Three Science credits are required for graduation from Hollis Brookline High School. One credit must be in physical science, and one credit must be in Life Science, Biology, or Accelerated Biology. All science courses listed here qualify to meet the third science credit requirement, as well as courses designated by a “^” throughout the program of studies, or as approved at the discretion of the superintendent or designee. The chart below represents the scope and sequence of classes taken by most students.

The Hollis Brookline science curriculum is aligned with the Next Generation Science Standard (NGSS) in order to optimize our students’ success after high school. For more information go to www.nextgenscience.org.

9 th Grade	10 th Grade	11 th Grade	12 th Grade Science Electives
General Science	Life Science	Chemistry Essentials	Anatomy & Physiology 1/2
Physical Science with Earth Science	Biology	Chemistry and Society	AP Biology
Accel. Physical Science with Earth Science	Accelerated Biology	Chemistry	AP Chemistry
Accelerated Biology	Chemistry	Honors Chemistry	AP Environmental Science
	Honors Chemistry	11th Grade Science Electives	AP Physics 1 or 2
		Anatomy & Physiology 1/2	Chemistry and Society
		AP Biology	Honors Anatomy & Physiology
		AP Chemistry	Physics: Conceptual
		AP Environmental Science	Physics: Princ. & Problems
		AP Physics 1	
		Honors Anatomy & Physiology	



All science courses qualify as STEM related courses for New Hampshire Scholars with STEM Emphasis designation.

H410. General Science with Earth Science +

Gr. 9

1 Credit

Full Year

Prerequisite: Recommendation of Department Chair and/or Case Manager
(Physical Science)

This is a physical science course for students who may require assistance with reading scientific information, organization, math and study skills. Topics include the structure of atoms, simple chemical reactions, household chemistry, motion, environmental problems, energy, and earth science topics. Students also learn basic laboratory procedures. This course is a fundamental class and is designed to meet the physical science requirement.

Note Students can receive credit for either General Science or Physical Science, but not both.

H411. Physical Science with Earth Science +
(Physical Science)

Gr. 9-12

1 Credit

Full Year

Physical Science is a full year course. The first semester focuses on introductory concepts of physics. Curricular topics include motion, forces, and energy. The second semester focuses on introductory concepts in chemistry and earth science topics. Curricular topics include classification of matter, compounds, and bonding. Special projects may be assigned each quarter.

Note: *Students can receive credit for either General Science or Physical Science, but not both.*

H413. Life Science +

Gr. 10-12

1 Credit

Full Year

Prerequisite: Recommendation of Department Chair and/or Case Manager
(Biological Science)

This is a biological science course for students who require assistance with reading scientific information, organization, and study skills. Topics include: the cell, classification, taxonomic groups of living things, organism biology, and ecology. This course is offered as a fundamental class and is designed to meet the biological science requirement.

Note: *Students may receive credit for either Life Science or Biology, but not both.*



H421. Biology +
(Biological Science)

Gr. 10-12

1 Credit

Full Year

This is an introductory biology course. Topics include scientific methods, biochemistry of life, anatomy and physiology of cells, biological processes, classification, and genetics, the study of the kingdoms, as well as taxonomic groups of living things examined on a comparative anatomy basis to illustrate the process of evolution.

Note: *Students may receive credit for either Life Science or Biology, but not both.*



H454. Accelerated Biology +

Gr. 9-12

1 Credit

Full Year

Prerequisite: Students are strongly encouraged to follow the recommendation of their current science teacher and have an A in Accelerated Algebra.
(Biological Science)

This is a more in-depth study of topics presented in biology. Students will use critical thinking skills and process skills as they analyze their scientific work. Students will be asked to integrate scientific facts into abstract processes as they make decisions and value judgments. This path is intended for students who plan to take one or more AP electives during their senior year. This course requires an independent learner with an advanced level of effort and comprehension at an accelerated pace.

H426. Chemistry Essentials +

Gr. 11-12

1 Credit

Full Year

Prerequisite: General Science, Life Science, and Recommendation of Dept. Chair and/or Case Manager
(Physical Science)

This is a physical science course for those students who may require assistance with reading and interpreting scientific information. This course is designed to help students develop their individual compensatory skills as they study chemistry. Emphasis will be on strategies for improving student reading, note taking, organization, and observation skills. Students will learn modern concepts of chemistry through a conceptual lens. The chemistry content is similar to that of chemistry (H430) and

also includes a laboratory component. Successful completion of this course fulfills one physical science requirement.

Note: Students may receive credit for either Chemistry Essentials or Chemistry and Society, but not both.

H429. Chemistry and Society +

Gr. 11-12

1 Credit

Full Year

Prerequisite: Physical Science and Biology

(Physical Science)

This course is designed for students going on to some form of higher education, not necessarily as science majors. The course is designed to meet the needs and interests of the students enrolled in a chemistry class and will investigate chemistry topics including, but not limited to atoms, matter, chemical reactions, solutions and acid/base chemistry. Students also will investigate chemistry topics that are currently in the news and impact our society. The class will focus around student-centered investigations, projects, expositions, and presentations.

Note: Students who take chemistry are not eligible to take this class.



H430. Chemistry +

Gr. 11-12

1 Credit

Full Year

Prerequisite: Physical Science and recommendation of current science teacher

(Physical Science)

This course is recommended for the college-bound student who may or may not major in science. Students will learn modern concepts of chemistry in the laboratory. The following topics are covered: basic knowledge of physical and chemical changes, elements, mixtures and compounds, atomic structure, arrangements of electrons, periodic trends, the electromagnetic spectrum, ionic and covalent bonding, writing and balancing chemical equations, classifying chemical reactions, predicting the products of chemical reactions, stoichiometry, acids, bases, and the importance of carbon and its compounds. Successful completion of Chemistry fulfills the physical science credit requirement.

Note: Students may receive credit for either Chemistry and Society or Chemistry, but not both.



H432. Honors Chemistry +

Gr. 11-12

1 Credit

Full Year

Weighted Course

Prerequisite: Completion of/concurrent with Algebra 2, and recommendation of current science teacher

(Physical Science)

This is an in-depth first course in chemistry that meets the objectives of general chemistry in preparation for a college-level chemistry course. This course is recommended for students who intend to go on to competitive colleges and/or plan to major in science. The course is designed for students planning to go into fields of pre-med, pre-dental, engineering, or for any students wishing to demonstrate their ability to meet the challenge of an honors course. Laboratory experiments are integrated into the classroom, as they play a vital role in the understanding of chemistry. Topics covered include dimensional analysis, matter, early atomic structure, chemical formulas, nomenclature, chemical equations, chemical bonds, the mole, stoichiometry, gas laws, ionization, basic thermochemistry and calorimetry, metals and non-metals, an introduction to organic chemistry, atomic structure, periodic classification, molecular structure, chemical bonds, solutions and intermolecular forces of attraction, stoichiometry, titration, kinetics, thermodynamics, chemical equilibrium including acids and bases, electrochemistry including oxidation and reduction, and nuclear chemistry.

**H440. Advanced Placement Chemistry +****Gr. 11-12****1 Credit****Full Year****Weighted Course**

Prerequisite: A grade of B- or higher in Honors Chemistry, or permission of the Department Chair (Physical Science)

This highly challenging college-level course provides students with an understanding of the concepts and principles required in preparation for the AP Chemistry exam. AP Chemistry is designed to offer a rigorous and challenging course covering chemical principles typical of college-level general chemistry courses. Students learn the usefulness and relevance of chemistry in both their intended areas of study and in the everyday world. Laboratory experiments are integrated into the classroom, and play a vital role in the understanding of chemistry. The experiments performed include, but are not limited to, those recommended by the College Board. Topics covered include acid-base theory, atomic theory, bonding and molecular *structure*, electrochemistry, equation writing, equilibrium, gas behavior, kinetics, nuclear chemistry, chemical periodicity, oxidation-reduction, states of matter, stoichiometry, and thermodynamics. *(Students who enroll in this course are required to complete a summer assignment prior to the start of class.)*

Note: *Successful completion of the AP Chemistry exam may entitle the student to receive college credit, depending on the policy of the individual college and the test score. Students are expected to take the AP Chemistry exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.*

**H434. Advanced Placement Environmental Science +****Gr. 11-12****1 Credit****Full Year****Weighted Course**

Prerequisite: B- or higher in Physical Science with Earth Science and Biology (or permission of Dept. Chair); B- or higher in Chemistry or permission of Department Chair for students taking Chemistry concurrently. (Biological Science)

This course provides students with an understanding of the concepts and principles required in preparation for the AP Environmental Science exam. The course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

Note: *Successful completion of the AP Environmental Science exam may entitle the student to receive college credit, depending on the policy of the individual college and the test score. Students are expected to take the AP Environmental Science exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.*

**H449. Physics: Conceptual +****Gr. 11-12****1 Credit****Full Year**

Prerequisite: Completion of Algebra 2 or RS Algebra 2, chemistry, and the recommendation of the chemistry teacher (Physical Science)

This course is designed for college-bound students who will not major in science; however, students should have an interest in science. Topics will be explored conceptually with a secondary emphasis on mathematical interpretation. Topics include kinematics, dynamics, energy, momentum, electricity and magnetism, general wave properties, light and sound. Projects and lab work play an important role in this course.

Note: Students may receive credit for either H449 Physics or H450 Physics, but not both. (Not recommended for students concurrently enrolled in calculus.)



H450. Physics: Principles and Problems + **Gr. 11-12** **1 Credit** **Full Year**
Prerequisite: Completion of or concurrent with Pre-Calculus
 (Physical Science)

This course is designed for college-bound students who are interested in science or a related major. Concepts will be explored with a strong mathematical emphasis. Topics include Newtonian Mechanics (kinematics, dynamics, energy, momentum and angular studies) as well as studies in electricity and wave behaviors. Projects and lab work play an important role in this course.

Note: Students may receive credit for either H449 Physics or H450 Physics, but not both.



H455. Advanced Placement Physics I + **Gr. 11-12** **1 Credit** **Full Year**
Weighted Course
Prerequisite: A grade of A- or higher in Chemistry or B or higher in Honors Chemistry and completion of or concurrent with Pre-Calculus
 (Physical Science)

An in-depth, mathematically rigorous, first course in physics equivalent to a first-semester college course in algebra-based physics. This highly challenging course provides students with an understanding of the concepts and principles required in preparation for the AP Physics I exam. The course is designed to prepare students for future study in core science areas (biology, chemistry or physics), mathematics, or other professional fields such as pre-med, pre-dental, veterinary study or engineering. It is also designed for all science majors and other students wishing to demonstrate their ability to meet the challenge of an AP course. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanics, waves and sound. It will also introduce electric circuits. Projects and lab work play an important role in this course.

Note: Successful completion of the AP Physics I exam may entitle the student to receive college credit, depending on the policy of the individual college and the test score. Students are expected to take the AP Physics I exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.



H446. Advanced Placement Physics II + **Gr. 11-12** **1 Credit** **Full Year**
Weighted Course
Prerequisite: A grade of B or higher in AP Physics 1 or recommendation of Physics: Principles and Problems teacher
 (Physical Science)

This is an in-depth, mathematically rigorous, second course in physics equivalent to a second-semester college course in algebra-based physics. This highly challenging course provides students with an understanding of the concepts and principles required in preparation for the AP Physics II exam. The course is designed to prepare students for future study in core science areas (biology, chemistry or physics), mathematics, or other professional fields such as pre-med, pre-dental, veterinary study or engineering. It is also designed for all science majors and other students wishing to demonstrate their ability to meet the challenge of an AP course. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. Projects and lab work play an important role in this course.

Note: Successful completion of the AP Physics II exam may entitle the student to receive college credit, depending on the policy of the individual college and the test score. Students are expected to take the AP Physics II exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.



H457. Anatomy & Physiology I +	Gr. 11-12	.5 Credit	Semester 1
H459. Anatomy & Physiology II +	Gr. 11-12	.5 Credit	Semester 2

Prerequisite: B- or higher in Physical Science with Earth Science, Biology, and Chemistry or permission of Department Chair for students taking Chemistry concurrently

This class meets the needs of junior or senior level students who might have an interest in working in the medical field, but have not yet demonstrated the ability to perform successfully at the honors/AP level. During the course, students will develop an understanding of the organ systems by focusing on anatomical vocabulary, the interrelationships between the organ systems, and what happens when organs and organ systems malfunction. Students will use critical thinking and problem solving skills to better understand the structure and function of their own bodies. Semester I examines: Tissues, Integumentary system, Skeletal system, Muscular system, Nervous system, and Endocrine system. Semester II examines: Cardiovascular system, Lymphatic system, Respiratory system, Digestive system, Urinary system, and Reproductive system. Students are encouraged to take both semesters if scheduling allows. Dissections are a mandatory part of this class.



H456. Honors Anatomy & Physiology +	Gr. 11-12	1 Credit	Full Year
--	------------------	-----------------	------------------

Weighted Course

Prerequisite: Accelerated Biology or permission of the Department Chair

This is a course that offers an in-depth investigation of the human organism and is designed for students who are interested in a career in the medical field. During this course, students will develop an understanding of the organ systems by focusing on anatomical vocabulary, the interrelationships between the organ systems, and what happens when organs and organ systems malfunction. Students will use critical thinking and problem solving skills to better understand the structure and function of their own bodies. This course requires an advanced level of effort and comprehension. Dissections are a mandatory part of this class.



H458. Advanced Placement Biology +	Gr. 11-12	1 Credit	Full Year
---	------------------	-----------------	------------------

Weighted Course

Prerequisite: Accelerated Biology & Honors Chemistry or permission of Department Chair (Biological Science)

This highly challenging course provides students with an understanding of the concepts and principles required in preparation for the AP Biology exam. The curriculum offers an in-depth exploration of the living systems of the cells, the organism, and the biosphere. Strong emphasis is directed toward experimentation, advanced lab activities, and the techniques by which scientific information about living systems is obtained. Current trends in biology are also presented. (*Students who enroll in this course will be required to complete a summer assignment prior to the start of class.*)

Note: Successful completion of the AP Biology exam may entitle the student to receive college credit, depending on the policy of the individual college and the test score. Students are expected to take the AP Biology exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.



H262. Senior Quest

Gr. 12

1 Credit

Full Year

A cross-disciplinary 21st Century independent project

Prerequisite: By application only. Limited to 30 students.

Elective Credit is awarded

A capstone to the academic career of those enrolled, Senior Quest offers students a chance to engage in a self-directed, project-based process aided by a faculty adviser. Throughout the year, Senior Quest students will develop their skills as critical thinkers, collaborators, creators, and communicators as they explore a subject of deep, personal interest. The students' project development will unfold in four phases, coinciding with each quarter, which they will document via an original website dedicated to showcasing their experience. Their endeavor will culminate in a finished project or performance presentation open to HBHS faculty, students, and community.

Senior Quest: Honors-by-Contract

Weighted Course

Students enrolled in Senior Quest have the option of Honors by Contract. To be eligible for Honors Credit, students must agree to the terms outlined in a contract determined by the Senior Quest teacher at the beginning of the year.

Social Studies

Three Social Studies credits are required for graduation from HBHS. **Grade 9:** US History or Topics in US History, 1 credit; **Grade 10:** World Studies, Topics in World Studies, or AP World History, 1 credit; **Grade 11:** Civics (College Prep or Honors by Contract) or Topics in Civics, .5 credit, Economics (College Prep or Honors by Contract) or Topics in Economics, .5 credit.



H235. U.S. History (U.S. History)

Gr. 9

1 Credit

Full Year

Picking up where the eighth grade social studies curriculum leaves off, U.S. History begins with Reconstruction after the Civil War and culminates with the Reagan years. Although the content of this course is studied chronologically, the five themes of Social Studies: geography, history, economics, society, and politics, are reinforced throughout the year. Emphasis is given to critical turning points in U.S. history and the responsibilities identified with being an American citizen. Evaluation is frequent, employing both summative and formative methods. The overarching goal of the course is to help students develop the skills necessary to be critical thinkers, independent learners, and confident participants in the democratic process.



H211. World Studies (World Studies)

Gr. 10

1 Credit

Full Year

World Studies is a full year, required course for sophomores. Through the content of this course, students will explore and demonstrate their understanding of how humans have expressed themselves through religion, philosophy, art, and political and economic institutions in different surroundings, at different times, and relative to other groups and the natural environment. The course encompasses broad historical themes and their connection to critical issues facing contemporary life, such as allocation of resources, population growth, and conflict and cooperation. To anchor their examination of the global past-present connection, students will also learn the role that geography plays in the development of culture and civilizations. In addition to its content, the course will emphasize the skills necessary to achieve academic success including, critical thinking through research, writing and listening, analyzing concepts and ideas individually and collaboratively, and communicating understanding through oral presentations.



H214. Advanced Placement World History Weighted Course

Gr. 10

1 Credit

Full Year

Prerequisite: Recommendation of 9th grade US History Teacher
(World Studies)

Students investigate the content of world history for significant events, individuals, developments, and processes focusing primarily on the time period from 1200 CE onward and develop and use historical thinking skills and methods: analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation. The course provides five themes (interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures) that students explore throughout the course in order to make connections among historical developments in different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania. Students are

expected to take the AP World History exam in May. (*Students who enroll in this course will be required to complete a summer assignment prior to the start of class.*)

Note: Successful completion of the AP World exam may entitle students to receive college credit, depending on the individual college and the test score. Students are expected to take the AP World History exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.



H221. Civics (Civics)

Gr. 11

.5 Credit

Semester

Civics is a required semester course for juniors that examines the important relationship between the people and their government. This course engages students in the study of the origins of our U.S. Federal and NH State governments, including the structure of each, their functions and the relationship they share. Students will investigate different political ideologies and the methods and outcomes of political participation. Students will also examine their own role in the political arena and the ways in which they may make a positive impact through active civic involvement. In addition, students will learn of the rights and responsibilities that all citizens have and share. Finally, students will engage in a media literacy component by evaluating the effectiveness of the media through a variety of sources, including political cartoons, print and broadcast media.

Note: Civics: Honors-by-Contract (Weighted Course)

Students enrolled in Civics have the option of receiving Honors Credit by completing an independent project throughout the semester that amounts to approximately 20% additional work to that expected for non-honors credit. While topics of independent projects will depend on individual student interests, they should relate to the study of Civics. A student who is working on an Honors-by-Contract project will be expected to conduct independent research and synthesize the resulting body of knowledge into a finished product that may entail, but is not limited to a research paper, project, original product, presentation, performance, or demonstration. To be eligible for Honors Credit in Civics, students must agree to the terms outlined in a contract determined by the Social Studies Department at the beginning of the semester.



H220. Economics + (Economics)

Gr. 11

.5 Credit

Semester

Economics is a required semester course for juniors. Students will explore the foundations and fundamentals of economics, the American free market, as well as how economics relates to their lives. Topics explored include: saving and investing, business in the United States, government in the economy, and the global economy. Students will be assessed through a variety of formative and summative measures, though problem-based learning and collaboration are emphasized.

Note: Economics: Honors-by-Contract (Weighted Course)

Students enrolled in Economics have the option of receiving Honors Credit by completing an independent project throughout the semester that amounts to approximately 20% additional work to that expected for non-honors credit. While topics of independent projects will depend on individual student interests, they should relate to the study of Economics. A student who is working on an Honors-by-Contract project will be expected to conduct independent research and synthesize the resulting body of knowledge into a finished product that may entail, but is not limited to, a research paper, project, original product, presentation, performance, or demonstration. To be eligible for Honors Credit in Economics, students must agree to the terms outlined in a contract determined by the Social Studies Department at the beginning of the semester.

Social Studies Electives



H245. Advanced Placement Psychology

Gr. 11-12

1 Credit

Full Year

Weighted Course

Prerequisite: Recommendation of 10th and/or 11th grade teacher and/or permission of Department Chair. Enrollment preference is given to rising seniors.

(Social Studies)

This year-long course is open to juniors and seniors willing to commit to college-level work. Coursework entails extensive reading, writing, and research within the field of psychology. AP Psychology students are expected to work independently and contribute regularly to class discussion. Topics covered include the biological basis of behavior, research methods, personality and emotional development, cognition, social psychology, abnormal psychology, and the works of Pavlov, Skinner, Jung, Freud, Piaget and Erickson and others. *Students who enroll in this course will be required to complete a summer assignment prior to the start of class. Students who have completed Psychology are not eligible to take AP Psychology.*

Note: *Successful completion of the AP Psychology exam may entitle the student to receive college credit, depending on the individual college and the test score. Students are expected to take the AP Psychology exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.*



H236. Advanced Placement U.S. History

Gr. 11-12

1 Credit

Full Year

Weighted Course

Prerequisite: US History and recommendation of 10th and/or 11th grade teacher and/or permission of Dept Chair

(U.S. History)

This course is a challenging, year-long survey of American history from 1492 to the present. Proficient reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical thinking, interpretation and evaluation of primary and secondary source documents, and writing powerful and convincing essays. In addition, students will complete an original thesis paper. AP U.S. History is meant to be the equivalent of a freshman-level college course. *Students who enroll in this course will be required to complete a summer assignment prior to the start of class.*

Note: *Successful completion of the AP U.S. History exam may entitle students to receive college credit, depending on the individual college and the test score. Students are expected to take the AP U.S. History exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.*



H258. Advanced Placement U.S. Government & Politics

Gr. 12

1 Credit

Full Year

Weighted Course

Prerequisite: Recommendation of 11th grade teacher and/or permission of Department Chair
(Social Studies)

This intensive college-level course provides an analytical and critical perspective on the concepts, methods, and ideas of government and politics in the United States. The dual-focused approach involves both the historic and philosophical foundations of constitutional government, the creation of the Constitution, the organization of American Government, civil liberties and the expansion of rights over the past 225 years. While students study general concepts used to interpret American politics, this course presupposes familiarity with the various institutions, groups, beliefs, and ideas that constitute

U.S. political reality. Students will analyze and interpret case studies, philosophies, and ideologies of both classical and contemporary political thought and apply those principles to classroom discussion, debate, and written works to better understand their role in the political arena. *Students who enroll in this course will be required to complete a summer assignment prior to the start of class and take part in the We The People hearing in Concord, NH in December.*

Note: Successful completion of the AP U.S. Government and Politics exam may entitle the student to receive college credit, depending on the individual college and the test score. Students are expected to take the AP U.S. Government and Politics exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.



H253. Contemporary Issues (Social Studies)

Gr. 11-12

.5 Credit

Semester

Students who take this semester-long course will examine current events in local, national, and international news through discussion, formal debates, individual and collaborative projects and research and writing. The class will focus on media literacy, understanding media bias and thinking critically about various news sources. Topics covered may include politics, race relations, energy issues, advancements in technology, environmental issues, global and regional conflicts, the death penalty, gun control, gender and LGBTQ, and class issues. Assignments include individual work and research, group projects, and class debates. Newspapers, news magazines, news segments, and documentaries will provide the basis for study.



H240. Human Geography (Social Studies)

Gr.11-12

.5 Credit

Semester

Human Geography is a semester-long elective course that provides students with an introduction to the field of human, or cultural, geography. Human geography is the study of how people interact with and ultimately change their environments. Major questions to be explored in this course include: What is geography? What does it mean to think geographically and spatially? How does geography relate to my life? Where do I want to travel and why? Topics of study may include, but are not limited to: contemporary mapping technology, climate and weather, climate change, migration, culture, music, art, food and agriculture, language, political geography, globalization, and global issues. Keeping in mind the growing impact of globalization, students will explore topics in geography through the lens of travel. Students will “travel” all across the world in this course while completing projects related to this travel theme. Learning activities in this course will emphasize 21st Century Learning skills as students will be required to collaborate, communicate using a variety of technology, and think critically and creatively.



H238. Legal Studies (Social Studies)

Gr. 11-12

.5 Credit

Semester

This course will examine primarily criminal and constitutional law in the United States. A wide variety of topics will be discussed including: the definition of “good” law, the workings of US and NH court systems, including how the Supreme Court interprets the Constitution and Bill of Rights, and how criminal cases are prosecuted. Current events and historical examples of crime will be used to guide discussions, and landmark US Supreme Court cases will be analyzed in depth. A mock trial and field trip to see how the NH Courts process different cases are incorporated into the curriculum. Other learning

activities in the course will emphasize 21st Century Learning skills as students will be required to think critically, collaborate, create and communicate using a variety of technology.



H244. Psychology
(Social Studies)

Gr. 11-12

1 Credit

Full Year

This year-long elective course provides an introduction to the study of psychology. Topics in this course include, but are not limited to, the different perspectives and influential people within the field of psychology, neurocognition, and the principles of learning, memory and the development language. The course also explores human development as it relates to maturation, personality and society, and examines the causes, diagnosis and treatment of psychological disorders. Students will study the concepts of this social science through the examination of their own behaviors and experiences in addition to that of the adopted text, case studies and film.

Note: *Students who take Psychology in their junior year are ineligible to take AP Psychology as seniors.*



H259. Sociology
(Social Studies)

Gr. 11-12

.5 Credit

Semester

Sociology is the study of human group behavior. This course covers topics such as racial and ethnic relations, cultural diversity, criminal behavior, marriage and divorce, team and group activities including sports. Learning activities include class discussions, films, experiments, readings and lectures. Students will participate in several small group projects requiring them to collaborate and think critically about numerous contemporary social issues.



H262. Senior Quest

Gr. 12

1 Credit

Full Year

A cross-disciplinary 21st Century independent project

Prerequisite: By application only. Limited to 30 students.

Elective Credit is Awarded

A capstone to the academic career of those enrolled, Senior Quest offers students a chance to engage in a self-directed, project-based process aided by a faculty adviser. Throughout the year, Senior Quest students will develop their skills as critical thinkers, collaborators, creators, and communicators as they explore a subject of deep, personal interest. The students' project development will unfold in four phases, coinciding with each quarter, which they will document via an original website dedicated to showcasing their experience. Their endeavor will culminate in a finished project or performance presentation open to HBHS faculty, students, and community.

Senior Quest: Honors-by-Contract

Weighted Course

Students enrolled in Senior Quest have the option of Honors by Contract. To be eligible for Honors Credit, students must agree to the terms outlined in a contract determined by the Senior Quest teacher at the beginning of the year.

Student Support Services

Hollis Brookline High School is committed to providing a continuum of services offering students with disabilities the opportunity to actively participate in the learning environment. The HBHS Special Education Department is committed to supporting the delivery of services indicated in the Individualized Education Program (IEP) with an emphasis on increasing opportunities for students with disabilities to learn and grow with their non-disabled peers. The Special Education Team addresses the unique needs of these students through a variety of team-designed programs and settings.

Services for Students Identified with a Disability

Services, modifications, and accommodations are provided to identified students to meet the needs indicated in the students' Individualized Education Plans (IEP). Specialized instruction is provided to meet the students' IEP goals and to develop executive functioning skills in the areas of test-taking, study skills, organization, planning, and self-advocacy. Related Services in the areas of speech/language therapy, occupational and physical therapies, and counseling are available. Special Education teachers and staff also provide consultation services and support to the teaching staff.

504 Program

The section 504 Program is dedicated to delivering accommodations to students who qualify for protection under section 504 of the Rehabilitation Act and Title II of the Americans with Disabilities Act. Accommodations are individualized to each qualifying student to ensure that despite his/her major life impacting disability, free and appropriate education is accessible.

CHOICE Program

The CHOICE Program is a non-therapeutic, alternative education program to help students achieve goals towards the completion of their high school education via computer-based, for-credit programs, or preparation for the HiSet (high school equivalency) test. Students can also work in a targeted study to receive individualized attention to achieve their academic goals. In addition, students can have the opportunity to participate in Extended Learning Opportunities, have access to transition supports such as vocational assessment, assistance with job placement, counseling, referrals to outside agencies, and mental health referrals. Students may spend all or part of their day in the program based on their needs.

FIEMUS Program

The FIEMUS program is designed to meet the needs of students whose emotional challenges require an education that goes beyond the traditional curriculum. The program integrates a therapeutic skill building approach with individualized, self-paced curriculum as well as a focus on transition. The SKILS course utilizes Dialectical Behavioral Therapy skills, self-advocacy and goal-setting using the SMART paradigm. A strengths-based perspective engages students to build competence in academics, self-regulation, and transition planning. Students may spend all or part of their day in the program based on their needs.

Life Skills Transitions Program

The Life Skills Transitions Program (LSTP) is designed to meet the needs of the HBHS population who are identified with Intellectual and Developmental Disabilities (IDD), Autism Spectrum Disorders (ASD), Speech

and Language Disorders (SP), Multiple Disabilities (MD), Specific Learning Disabilities (SLD), Other Health Impairments (OHI), and/or Adaptive Behavior Challenges (ABC). The goal of the LSTP is to encourage and support each student in their journey to become as independent as possible within their school, home, and community. Integration of academic instruction, interdependent living skills, social communications, pre-employment skill development, vocational internships with the assistance of a job coach, adult service provider enrollment, and assistance with the application processes for enrollment into post-secondary colleges and university programs designed for students with these identified disabilities. The LSTP prepares students and their families for a successful transition into life beyond high school.

Note: Life Skills courses do not count toward GPA.

Life Skills Intensive Needs Program

The mission of this program is to support students who have intensive cognitive, medical, speech and language, and/or physical needs in a self-contained classroom. Students are typically nonverbal, or have limited functional language, and may require the use of an Augmentative and Alternative Communication (AAC) device. Services include speech and language therapy, occupational therapy, physical therapy and the services of a Board Certified Behavior Analyst. Adult one-on-one support is provided for the entire school day, due to the level of students’ intensive needs.

This program focuses on Adaptive Daily Living Skills, emphasizing self-care: toileting, changing non-ambulatory students, showering, shaving, brushing teeth, and facial cleanliness. Skill building in kitchen productivity is also stressed: food preparation, safety, function and location of items, washing dishes, using appliances correctly, and manners while eating in order to prepare students to be as independent as possible in their adult lives. As a result, through intensive data collection on teaching steps and monitoring behaviors, generalizing skills into different environments is an important component for this program.

The Special Education Team works together with parents to meet the intensive needs of students in this program. Students have access to regular education classes for participation and socialization. When in these classes, the curriculum is modified to meet each student’s academic level, however, grades are not awarded. It is an opportunity for students to interact with their peers, while accompanied by a one-on-one paraprofessional. Students typically remain in high school until the age of 21, graduating with a Hollis Brookline Equivalency Diploma that focuses on the completion of their Individualized Educational Program Goals.

H030. Supported Study	Gr. 9-12	No Credit	Semester
<i>Prerequisite: Approval from Student Assistance Team</i>			
Supported Study is a non-credit earning study hall that serves as a guided program in the areas of organization, self-advocacy, and time management. Enrollment in supported study is limited to those students with a documented need for a supported study hall environment.			

H060. Career Exploration	Gr. 9-12	.5 Credit	Semester
<i>Prerequisite: Per student’s Individualized Education Program or approval from Student Assistance Team</i>			
Career Exploration is a class that looks at students’ learning style using multiple intelligences and aptitudes while exploring a wide range of career and interest areas. Course work includes units on the 16 career clusters, work and career goals, and the college process. This course may be repeated for credit.			

H026. Community Life Skills +	Gr. 9-12	1 Credit	Full Year
--------------------------------------	-----------------	-----------------	------------------

Prerequisite: Per student's Individualized Education Program

Community Life Skills will emphasize daily functional activities including, but not limited to, generating shopping lists, recipes, cooking, trips to the grocery store or other community based businesses, and safety in the school, home and community environments. Students work on skills in job applications, laundry, cleaning, and job shadowing. This class offers onsite community based work opportunities in consultation with the Job Developer. Identification of specific vocational needs of students will be addressed, as well as appropriate transitions into adult services.

H021. Directed Study	Gr. 9-12	1.0 Credit	Full Year
H020. Directed Study		.5 Credit	Semester

Prerequisite: Per student's Individualized Education Program

Directed Study provides specialized instruction through an academic-based resource room program utilizing the students' course requirements and remedial instruction to meet IEP goals. In addition, students develop self-advocacy skills, disability education, and IEP knowledge. Transition services are provided to assist students in achieving post-secondary goals. Special Education teachers and staff also provide consultation services and support to the teaching staff. Students who have an IEP and participate in Directed Study earn up to one credit per year and grades are reported as pass/fail. **A passing grade may be earned when a student meets 70% or more of class expectations.**

H025. Executive Functioning Skills	Gr. 9-12	.5 Credit	Semester
---	-----------------	------------------	-----------------

Prerequisite: Approval by Department Chair, Case Manager, School Counselor or Assistant Principal of Student Services

Executive Functioning Skills is designed to meet the needs of students who require instruction in the areas of study skills such as organization, time management, note-taking, planning, prioritization, and memory. Admission to the class will partly depend on informal inventories completed by students and teachers as well as recommendations by staff members. Students will learn strategies to boost their executive functioning skills and will spend time building them independently. This course may be repeated for credit.

H061. Life Skills Math +	Gr. 9-12	1 Credit	Full Year
---------------------------------	-----------------	-----------------	------------------

Prerequisite: Per student's Individualized Education Program

Life Skills Math will emphasize functional math skills and activities needed for everyday life. Curriculum includes building skills relating to money, time, calculator use, calendar use, and basic addition, subtraction and measurement. Individualized instruction is provided to meet each student's needs.

H116. Literacy (English)	Gr. 9-12	1 Credit	Full Year
------------------------------------	-----------------	-----------------	------------------

Prerequisite: Approval by Department Chair, Case Manager, School Counselor, or Assistant Principal of Student Services

Literacy is a class designed to meet the needs of students who struggle with reading/writing or who struggle in a classroom setting. Admission to this class will depend, in part on results of informal reading inventories and recommendations made by staff members. Students will work as a whole class on reading comprehension, writing, and vocabulary skills. Students also will work independently on individual skills to meet their instructional needs. This course may be repeated for credit.

H110. Reading 180A	Gr. 9-12	1 Credit	Full Year
H110B. Reading 180B		1 Credit	Full Year

(English)

Prerequisite: Approval by Department Chair, Case, Manager, School Counselor or Assistant Principal of Student Services

Read 180 is an intensive, research-based reading intervention program designed to meet the needs of students who struggle with reading comprehension. Admission to the course will depend, in part, on the results of standardized and informal reading tests. Students work extensively in the areas of reading, writing, and vocabulary through whole and small group instruction, computer software, and independent reading. This course may be repeated for credit.

H050. SKILS	Gr. 9-12	.5 Credit	Semester
--------------------	-----------------	------------------	-----------------

Prerequisite: Per student's Individualized Education Program

SKILS class (Self-regulations, Self-Knowledge, Emotional Intelligence, Life Skills, Self-care) is a class that incorporates Dialectical Behavior Therapy (DBT) skills, SMART goals, and social emotional learning activities and discussion to promote self-awareness, self-management, and healthy relationships. Students set weekly goals and evaluate their effectiveness. Discussion and hands-on activities are used to gain mastery of skills. This course may be repeated for credit.

H062. Social Communications	Gr. 9-12	1 Credit	Full Year
------------------------------------	-----------------	-----------------	------------------

Prerequisite: Per student's Individualized Education Program

This class will be taught in consultation with the speech and language services to address written, verbal, and non-verbal communication skills. Curriculum involves activities in social skills, communication with peers and adults, as well as members of the school and surrounding communities. Class activities include, but are not limited to, self-advocacy, making and maintaining friendships, non-verbal communication, conversational skills, and written communication.

H070. Work Experience Program	Gr. 10-12	Varying Credit	Semester
--------------------------------------	------------------	-----------------------	-----------------

Prerequisite: Per student's Individualized Education Program

The Work Experience program allows students with disabilities an opportunity to experience working within the community. Support services may be provided by a para-educator, teacher and/or job developer as needed. The program is designed to provide students with a meaningful workplace experience and to expose them to a variety of vocational experiences. Work experience placement is based on the Transition Plan, which is developed after assessing student interest and skill levels.

H041. Essentials for Algebra +	Gr. 9-12	1 Credit	Full Year
---------------------------------------	-----------------	-----------------	------------------

Prerequisite: Per student's Individualized Education Program and Approval by Math Department Chair, Assistant Principal of Student Services and Director of Student Services

This course is for the student who needs to further their math skills in order to successfully complete Algebra 1 prior to high school graduation. Topics to be covered include decimal operations, fraction operations, coordinate systems, signed number operations, exponents, probability, scientific notation, and rate equations. This course may be repeated for credit.

H051. Unified Music**Gr. 9-12****.5 Credit****Semester**

Hollis Brookline High School embraces a philosophy of including students with disabilities in all of our classes and all aspects of our school community. This course is designed to deepen that inclusion by fostering the development of relationships between student with and without disabilities, while using the benefit of playing different musical instruments and singing as the platform. Exposure to different types of music may help facilitate an interest into adulthood for student for leisure and adult living. The focus of the mentor's work will be learning how to provide peer support in a respectful way.

***knowledge of an instrument or singing is not required.*

H052. Unified PE**Gr. 10-12****.5 Credit****Semester**

Hollis Brookline High School embraces a philosophy of including students with disabilities in all of our classes and all aspects of our school community. This course is designed to deepen that inclusion by fostering the development of relationships between student with and without disabilities, while using the benefit of physical exercise as the conduit. Physical skills is leisure for adult living. The focus of the mentor's work will be learning how to provide peer support in a respectful way.

Visual and Performing Arts



All visual and performing arts courses qualify as Art Education courses for New Hampshire Scholars with Art Emphasis designation.

Theatre

H162. Acting I **Gr. 9-12** **.5 Credit** **Semester**
(Arts Education)

This course is comprised of studio scenes, Spolin improv games, and monologues to develop the actors' abilities to internalize and sustain characters, analyze literature, develop French Objectives, prepare for auditions, and perform, direct, and write short scenes. The course also surveys various methods of script and character analysis including, but not limited to, Uta Hagen's six points, CROW, and the Anne Bogart 9 Viewpoints.

H162. Acting II **Gr. 9-12** **.5 Credit** **Semester**
Prerequisite: Acting 1
(Arts Education)

This course is continuation of Acting I, comprised of studio scenes and monologues to develop the actors' abilities to internalize and sustain characters, analyze literature, and, prepare for auditions. Acting 2 explores the philosophical, psychological, and ethical perspectives of the paramount acting coaches, including Stanislav, Chekhov, Meisner, Adler, Strasburg, and Hagen, and the practical application of these perspectives to acting.

H160. Improvisational Theatre **Gr. 9-12** **1 Credit** **Full Year**
(Arts Education)

Improvisational Theatre utilizes theatre exercises and activities to teach students the skills necessary to perform spontaneous scenes as well as short and long form improv on stage. These skills include vocalization, stage presence, and incorporation of a basic knowledge of classical, historical, and contemporary topics.

H168. Improvisational Theatre 2 **Gr. 10-12** **1 Credit** **Full Year**
Prerequisite: Improvisational Theatre
(Arts Education)

This course is designed to refine the students' understanding and application of the art of improvisation, to develop a deeper understanding of the art, to establish positive self-confidence by polishing performing skills and to assist with the introduction of the art to beginning students. In addition, the students will create special projects, using research and presentation skills as well as continue to learn to create a positive, supportive environment in which to accept and give critiques.

H163. Theatre Studies **Gr. 9-12** **1 Credit** **Full Year**
(Arts Education)

Areas of study in this course include technical theatre, acting, and playwriting. Choose one area or try all three. The aspects covered will include technical practicum and design, rehearsal and performance, written critiques, original plays, and production of original materials and published works.

Music

H910. Concert Band (Arts Education)

Gr. 9-12

.5 Credit

Full Year
Every Other Day

This course covers the standard band repertoire in addition to contemporary music. Students will focus on ensemble concepts such as balance, blend, tone and intonation. Through selected literature, students will also gain improved technical facility and knowledge of their own instrument. The course is open to all students who play a band instrument. **Participation in concerts and functions during school and after school hours is expected.**

Note: *This course may be taken more than once during a student's high school career.*

H912. Jazz Band (Arts Education)

Gr. 9-12

.5 Credit

Full Year
Every Other Day

Prerequisite: Bass guitar, guitar, piano, and drum players must audition for this class.

Students will cover the standard repertoire as well as contemporary music. Students will learn basic improvisational techniques in addition to the ensemble experience. Students will also be expected to develop music reading skills and learn basic theory. This class is open to all students who play saxophone, trombone, trumpet, bass guitar, guitar, piano, and drums. **Participation in concerts and functions during school and after school hours is expected.**

Note: *This course may be taken more than once during a student's high school career.*

H911. Honors Jazz Band (Arts Education)

Gr. 10-12

1 Credit

Full Year

Weighted Course

Prerequisite: By audition only

Students cover the standard repertoire as well as contemporary music and learn improvisational techniques in addition to ensemble techniques. This is a select ensemble and requires instructor approval based on audition. **Participation in concerts and functions during school and after school hours is expected.**

Note: *This course may be taken more than once during a student's high school career.*

H915. Guitar (Arts Education)

Gr. 9-12

.5 Credit

Semester

This course is designed for students with little or no experience in guitar. Students learn tuning, music notation, and tablature. Chord construction, knowledge of scales, and performance of tunes is emphasized. Students must own an acoustic guitar for enrollment.

H916. Guitar II (Arts Education)

Gr. 9-12

.5 Credit

Semester

Prerequisite: B- or higher in Guitar H915 or instructor's approval

Guitar II requires that guitar performance ability and music reading level are commensurate with the successful completion of Guitar H915. Students will continue to improve their technique, ability to read music notation, and understanding of music theory. Individual and ensemble playing will be emphasized. Students must own an acoustic guitar for enrollment.

H922. Concert Choir	Gr. 9-12	.5 Credit	Full Year
(Arts Education)			Every Other Day

Concert Choir offers students the opportunity to explore vocal music through participation in a larger ensemble. It is open to students who demonstrate a sufficient degree of vocal/musical facility and ensemble awareness to perform a variety of literature and musical styles at a moderate level of difficulty. While the focus is on choral performance, skills in music reading, listening and interpretation will also be addressed. **Participation in concerts and functions during school and after school hours is expected.**

***Note:** This course may be taken more than once during a student's high school career.*

H921. Jazz Choir	Gr. 9-12	.5 Credit	Full Year
(Arts Education)			Every Other Day

Jazz Choir introduces students to the jazz style of singing using standard jazz repertoire as well as contemporary literature. Students learn basic improvisational techniques in addition to the skills studied in a traditional choral ensemble. **Participation in concerts and functions during school and after school hours is expected.**

***Note:** This course may be taken more than once during a student's high school career.*

H920. Honors Choir	Gr. 10-12	1 Credit	Full Year
(Arts Education)			

Weighted Course

***Prerequisite:** By audition only*

Honors Choir is an advanced-level chamber vocal ensemble and requires instructor approval based on audition. This ensemble is for students who demonstrate an advanced degree of vocal/musical facility and ensemble awareness to perform a variety of literature and musical styles at a medium-advanced level of difficulty. While the focus is on choral performance, skills in music reading, listening and interpretation will also be strongly addressed. **Participation in concerts and functions during school and after school hours is expected.**

***Note:** This course may be taken more than once during a student's high school career.*

H931. Music Theory & Composition 1	Gr. 9-12	.5 Credit	Semester
(Arts Education)			

This course is designed to cover basic fundamentals of music theory. Students learn to identify intervals, clefs, simple harmonization, as well as construct scales and chords, etc. Students learn the art of composing vocal and instrumental music. This course is particularly helpful for students who take a performing ensemble, Guitar class, or are studying privately. It is strongly recommended for students wishing to pursue music studies in college.

Dance

H940. Dance, Movement & Music	Gr. 9-12	.5 Credit	Semester
(Arts Education or Physical Education)			

This course is designed for the beginning to intermediate dance student. It introduces students to sequential skills in dance performance and choreography. Students learn a variety of dance styles that may

include ballet, jazz, tap, modern, hip-hop, and partner dancing. Students are encouraged to participate in the creative process and discover their own movement potential. Students also develop a historical perspective regarding dance through the study of many styles and genres of dance. **Participation in functions during school and after school hours is expected.**

Note: *This course may be taken more than once during a student's high school career.*

Visual Arts

H850. Fundamentals of Art (Arts Education)	Gr. 9-12	.5 Credit	Semester
--	-----------------	------------------	-----------------

The Fundamentals of Art course is designed as an introduction to the Visual Arts program and forms the basis for all other Visual Arts courses offered. It consists of a discipline-based study of art production, art criticism, art history, and aesthetics. Students develop their work focusing on the elements and principles of design. They have the opportunity to manipulate several media as they learn the basic techniques for drawing, painting, two-dimensional design, and three-dimensional design.

Note: *Successful completion of this course is a prerequisite for all other Visual Arts courses.*

H852. 3-D Design and Sculpture <i>Prerequisite: Fundamentals of Art</i> (Arts Education)	Gr. 9-12	.5 Credit	Semester
---	-----------------	------------------	-----------------

This course presents students with an introductory exploration of three-dimensional form. Students work through a series of progressive assignments that encourage a practical understanding of visual elements through media such as cardboard, wire, modeling clay, and foam core.

H356. Introduction to Graphic Arts (Arts Education, Practical Arts)	Gr. 9-12	.5 Credit	Semester
---	-----------------	------------------	-----------------

Using Adobe *Illustrator*, *Photoshop*, and *InDesign*, students learn the art of combining graphic design principles (line, shape, color, value, texture, and form) with typography to visually and creatively communicate information.

H867. Advanced Placement Studio Art <u><i>Weighted Course</i></u>	Gr. 11-12	1 Credit	Full Year
---	------------------	-----------------	------------------

Prerequisite: Fundamentals of Art, Drawing 1 and one of the following: 3-D Design and Sculpture, Ceramics, Drawing 2, Painting, Photography 1, Photography 2
(Arts Education)

This course is intended for highly motivated, self-disciplined students who are committed to the serious study of art. AP Studio Art focuses on a variety of experiences demonstrating a range of understanding of media, techniques, aesthetics, and art history. Students will create portfolios that will entail a three-section structure: quality, concentration, and breadth. They will demonstrate a fundamental competence and range of understanding in visual concerns and methods.

Note: *Successful completion of the AP Studio Art exam may entitle the student to receive college credit, depending on the individual college and the test score. Students are expected to take the AP Studio Art exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.*

H858. Ceramics	Gr. 9-12	.5 Credit	Semester
-----------------------	-----------------	------------------	-----------------

Prerequisite: Fundamentals of Art
(Arts Education)

Students focus on the theory and practice of basic ceramics, including methods of hand construction, glazing, and kiln firing. Emphasis is placed on the historical and cultural background of the craft.

H856. Drawing 1	Gr. 9-12	.5 Credit	Semester
------------------------	-----------------	------------------	-----------------

Prerequisite: Fundamentals of Art
(Arts Education)

In this course, students explore a variety of subjects, techniques, and materials to expand their drawing skills. Pencil, colored pencil, charcoal, pastel, and ink are some of the materials used to create still-lives, portraits, landscapes, illustrations, abstract compositions, and perspective drawings.

H857. Drawing 2	Gr. 10-12	.5 Credit	Semester
------------------------	------------------	------------------	-----------------

Prerequisite: Drawing 1
(Arts Education)

In this course, students expand their understanding of the elements and principles of design as applied to two-dimensional drawing. They explore more intricate media and techniques and begin to formulate portfolio-caliber pieces.

H853. Painting	Gr. 9-12	.5 Credit	Semester
-----------------------	-----------------	------------------	-----------------

Prerequisite: Fundamentals of Art
(Arts Education)

This course focuses on aspects of form, media, materials, and techniques in structured, specific class problems. Students further develop their understanding of color theory and pictorial quality.

H872. Digital Photography 1	Gr. 9-12	.5 Credit	Semester
------------------------------------	-----------------	------------------	-----------------

Prerequisite: Fundamentals of Art
(Arts Education)

This introductory course deals with digital photography and teaches basic camera handling, how cameras work, how lighting works, and how to use photo editing software. Composition guidelines and the elements and principles of art are introduced. Students will be required to complete weekly homework assignments and will create a portfolio of their work by the end of the course.

Note: Any DSLR with adjustable manual focus is recommended.

H873. Digital Photography 2	Gr. 10-12	.5 Credit	Semester
------------------------------------	------------------	------------------	-----------------

Prerequisite: Digital Photography 1
(Arts Education)

This advanced photography course builds on skills and techniques learned and mastered in Photography 1. Students will explore advanced technical, artistic, and commercial aspects of digital and traditional film photography. Students will prepare a portfolio of work to exhibit at the completion of the course.

Students will be required to complete weekly homework assignment, will produce a website for their photography work, and learn ways to market their photography and get work in the field.

Note: *It is highly recommended that students have access to a DSLR with adjustable manual focus and/or exposure capability.*



H262. Senior Quest

Gr. 12

1 Credit

Full Year

A cross-disciplinary 21st Century independent project

Prerequisite: By application only. Limited to 30 students.

Elective Credit is Awarded

A capstone to the academic career of those enrolled, Senior Quest offers students a chance to engage in a self-directed, project-based process aided by a faculty adviser. Throughout the year, Senior Quest students will develop their skills as critical thinkers, collaborators, creators, and communicators as they explore an subject of deep, personal interest. The students' project development will unfold in four phases, coinciding with each quarter, which they will document via an original website dedicated to showcasing their experience. Their endeavor will culminate in a finished project or performance presentation open to HBHS faculty, students, and community.

Senior Quest: Honors-by-Contract

Weighted Course

Students enrolled in Senior Quest have the option of Honors by Contract. To be eligible for Honors Credit, students must agree to the terms outlined in a contract determined by the Senior Quest teacher at the beginning of the year.

World Languages

Through a communicative approach, the World Language Department promotes proficiency in languages along with knowledge of cultures and literature and strives to foster an appreciation of differences and similarities among peoples and nations. Many colleges and universities have a world language requirement and prefer that students study the same language for a minimum of three years at the high school level. Students who excel in the target language in eighth grade typically enroll in level two as a freshman and therefore have the potential to continue through the fifth level. Students who have not developed a strong base in the language are strongly urged to enroll in level one. Students and parents should work with their language teachers and school counselors to choose the best placement and to maximize the potential for success in the language studied.

H505. Introduction to Modern Languages

Gr. 9-10

1 Credit

Full Year

Prerequisite for Grade 9: Recommendation of Reading Specialist or Language Teacher
(World Language)

This course is designed for students who have participated in the reading program at the middle school and would like to improve their English grammar skills prior to learning a world language. IML provides an introduction to the concept of language. Through this second language learning approach, students will gain knowledge and awareness of languages, countries, traditions, and customs worldwide. Skills learned in this course have proven to be a valuable precursor to successful completion of future world language classes.



H510. French I

Gr. 9-11

1 Credit

Full Year

Prerequisite for Grade 9: Recommendation of Reading Specialist or Language Teacher
(World Language)

This course develops the students' abilities to read, write, speak, and understand simple French used in day-to-day living. Accurate pronunciation and fundamentals of good usage in writing and speaking are stressed. Cultural awareness is a major goal of this course, including that of listening to native speakers. Most readings, projects, and vocabulary are centered on cultural topics. Students are expected to begin speaking more French during class as they expand their communication skills.



H520. French II

Gr. 9-12

1 Credit

Full Year

Prerequisite: French I
(World Language)

This course is a continuation of the French 1 program. It reinforces and strengthens all four aspects of the language – reading, writing, listening, and speaking – as well as develops a greater awareness and understanding of French culture. Students are expected to speak French during class as they expand their communication skills and listening skills, and continue to improve their understanding of native speakers. This course is intended for any student who wants to continue with a study of the French language.

**H530. French III****Gr. 10-12****1 Credit****Full Year***Prerequisite: French II*
(World Language)

This course offers the opportunity for students to apply the knowledge learned in the previous two levels, while continuing to learn new concepts in all four aspects of a language: reading, writing, listening, and speaking. A broad range of short stories, plays, poetry, music, and films in French will be presented. The study of Francophone culture, geography, and historical concepts are combined with a thorough presentation and review of grammar. Students will continue to speak more French during class as they expand their communication skills, while continuing to listen to and understanding native speakers. This course is intended for students who have successfully completed the first two levels of French and are eager to apply their knowledge and better communicate with the world around them.

**H540. French IV****Gr. 11-12****1 Credit****Full Year***Prerequisite: French III*
(World Language)

This course is offered to students who wish to further study the French language and culture, but don't want to continue into the AP French course. These students must have successfully completed French through the third level. This course is designed to incorporate history, culture, and contemporary issues in the Francophone world and French cultures through music, film, and literature. A continuation of French grammar and vocabulary will coincide with each unit. In this course, students will be provided with an in-depth view and analysis of the topics and themes covered. Students are encouraged and expected to practice writing, speaking, listening, and reading French.

**H541. Honors French IV****Gr. 11-12****1 Credit****Full Year***Weighted Course**Prerequisite: A grade of B- or higher in French III or permission of Department Chair*
(World Language)

Students will further expand and fine-tune their ability to communicate in French effectively in all four areas of communication (speaking, listening, reading, and writing). The curriculum includes oral presentations on various topics, skits, interviews, impromptu speeches, reports, projects, etc. Contemporary vocabulary for everyday situations will be studied on a weekly basis. Compositions and email replies will be done on a regular basis. There will be an in-depth review and study of grammar. The six themes, based on the College Board's Curriculum Framework, will be introduced throughout the year. Students will expand their knowledge of French and Francophone cultures. Class is conducted completely in French (except in rare cases to explain administrative procedures and difficult grammar) and students are expected to use the target language during class at all times, unless given permission to do otherwise. This course is conducted as a precursor to the AP level and it is designed for any student with a strong command of and interest in French. (*Students who enroll in this course will be required to complete a summer assignment prior to the start of class.*)

**H562. Advanced Placement French****Gr. 11-12****1 Credit****Full Year***Weighted Course**Prerequisite: A grade of B- or higher in Honors French 4 or permission of Department Chair*
(World Language)

In accordance with AP guidelines, this course will provide students with a learning experience equivalent to that of a third-year college course in French language. This means developing a strong

command of the French language, with proficiency in integrating language skills and synthesizing written and aural materials, the formal writing process, extensive interpersonal and presentational speaking and writing practice, and aural comprehension skills through quality, authentic, and level-appropriate audio and video recordings. Students are also further exposed to the world of literature and current events of French-speaking countries through authentic written texts, including newspaper and magazine articles, literary texts, and other nontechnical writings that develop students' reading and comprehension abilities. Class is conducted completely in French (except in rare cases to explain administrative procedures and difficult grammar) and includes frequent writing and integration of skills with a rigorous review of grammatical structure, and the six themes, based on the College Board's Curriculum Framework, will be the focus of the teaching and learning throughout the year. Students will make connections between their learning in the French classroom, their learning in other classes, and their daily lives. Students will use French in ways that reach or approach a high level of proficiency. Advanced organizational and analytical strategies are taught. An array of resources is used as necessary to facilitate the learning process. Students are required to use the target language during class at all times. (*Students who enroll in this course will be required to complete a summer assignment prior to the start of class.*)

Note: Successful completion of the AP French exam may entitle the student to receive college credit, depending on the individual college and the test score. Students are expected to take the AP French exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.



H511. Spanish I

Gr. 9-11

1 Credit

Full Year

Prerequisite for Grade 9: Recommendation of Reading Specialist or Language Teacher
(World Language)

This course develops the students' abilities to read, write, speak, and understand simple Spanish used in day-to-day living. Accurate pronunciation and fundamentals of good usage in writing and speaking are stressed. Cultural awareness is a major goal of this course, including that of listening to native speakers. Most readings, projects, and vocabulary are centered on cultural topics. Students are expected to begin speaking more Spanish during class as they expand their communication skills.



H524. Spanish II

Gr. 9-12

1 Credit

Full Year

Prerequisite: Spanish I
(World Language)

This course is a continuation of the Spanish 1 program. It reinforces and strengthens all four aspects of the language – reading, writing, listening, and speaking – as well as develops a greater awareness and understanding of Hispanic culture. Students are expected to speak Spanish during class as they expand their communication skills and listening skills, and continue to improve their understanding of native speakers. This course is intended for any student who wants to continue with a study of the Spanish language.



H536. Spanish III

Gr. 10-12

1 Credit

Full Year

Prerequisite: Spanish II
(World Language)

This course offers the opportunity for students to apply the knowledge learned in the previous two levels, while continuing to learn new concepts, in all four aspects of a language; reading, writing, listening, and speaking. A broad range of short stories, plays, poetry, music, and films in Spanish will

be presented. The study of Hispanic culture, geography, and historical concepts are combined with a thorough presentation and review of grammar. Students will continue to speak more Spanish during class as they expand their communication skills, while continuing to listen to and understand native speakers. This course is intended for students who have successfully completed the first two levels of Spanish and are eager to apply their knowledge while better communicating in the world around them.



H545. Spanish IV

Gr. 11-12

1 Credit

Full Year

Prerequisite: Spanish III
(World Language)

This course is offered to students who wish to further study the Spanish language and culture, but don't want to continue into the AP Spanish course. These students must have successfully completed Spanish through the third level. This course is designed to incorporate history, culture, and contemporary issues in the Hispanic world and Spanish cultures through music, film, art, and literature. A continuation of Spanish grammar and vocabulary will coincide with each unit. In this course, students will be provided with an in-depth view and analysis of the topics and themes covered. Students are encouraged and expected to practice writing, speaking, listening, and reading Spanish.



H546. Honors Spanish IV

Gr. 11-12

1 Credit

Full Year

Weighted Course

Prerequisite: A grade of B- or higher in Spanish III or permission of Department Chair
(World Language)

Students will further expand and fine-tune their abilities to communicate Spanish effectively in all four areas of communication (speaking, listening, reading, and writing). The curriculum involves oral presentations on various topics, skits, interviews, impromptu speeches, reports, projects, etc. Contemporary vocabulary for everyday situations will be studied on a weekly basis. Compositions and email replies will be done on a regular basis. There will be an in-depth review and study of grammar. The six themes, based on the College Board's Curriculum Framework will be introduced throughout the year. Students will expand their knowledge of Spanish and Latin American culture. Class is conducted completely in Spanish (except in rare cases to explain administrative procedures and difficult grammar) and students are expected to use the target language during class at all times, unless given permission to do otherwise. This course is conducted as a precursor to the AP level and it is designed for any student with a strong command of and interest in Spanish. (*Students who enroll in this course will be required to complete a summer assignment prior to the start of class.*)



H565. Advanced Placement Spanish

Gr. 11-12

1 Credit

Full Year

Weighted Course

Prerequisite: A grade of B- or higher in Honors Spanish IV or permission of Department Chair
(World Language)

In accordance with AP guidelines, this course will provide students with a learning experience equivalent to that of a third-year college course in Spanish language. This means developing a strong command of the Spanish language, with proficiency in integrating language skills and synthesizing written and aural materials, the formal writing process, extensive interpersonal and presentational speaking and writing practice, and aural comprehension skills through quality, authentic, and level-appropriate audio and video recordings. Students are also further exposed to the world of literature and current events of

Spanish-speaking countries through authentic written texts, including newspaper and magazine articles, literary texts, and other nontechnical writings that develop students' reading and comprehension abilities. Class is conducted completely in Spanish (except in rare cases to explain administrative procedures and difficult grammar) and includes frequent writing and integration of skills with a rigorous review of grammatical structures, and the six themes, based on the College Board's Curriculum Framework, will be the focus of the teaching and learning throughout the year. Students will make connections between their learning in the Spanish classroom, their learning in other classes, and their daily lives. Students will use Spanish in ways that reach or approach a high level of proficiency. Advanced organizational and analytical strategies are taught. An array of resources is used as necessary to facilitate the learning process. Students are required to use the target language during class at all times. (*Students who enroll in this course will be required to complete a summer assignment prior to the start of class.*)

Note: Successful completion of the AP Spanish exam may entitle the student to receive college credit, depending on the individual college and the test score. Students are expected to take the AP Spanish exam at the end of this course for a fee of approximately \$95, payable to College Board. Financial assistance is available to those who qualify for SAT waivers.



H512. Latin I (World Language)

Gr. 11-12

1 Credit

Full Year

This course functions as an introduction to Latin that focuses on the relevance of classical languages and their enduring influence on Romance languages such as French and Spanish. English grammar is studied in conjunction with Latin grammar in order to form a more complete understanding of both. Students learn to pronounce Latin correctly, read Latin aloud, and to translate stories from Latin to English. The majority of the class focuses on grammar, vocabulary and etymology, all of which strengthen students' overall language base. In addition, Latin 1 introduces a more in-depth study of Roman culture, history, archeology, and myth to accompany and better contextualize the primary language component. The influence of the ancient Greek language along with Greek culture and myth upon Latin and the Romans are also key components of the curriculum. Juniors will be given preference for enrolling in this course.



H522. Latin II *Prerequisite:* Latin 1 (World Language)

Gr. 12

1 Credit

Full Year

This course builds upon skills developed in Latin 1, including a more intensive study of Latin grammar and the introduction of true Latin syntax. Students will continue to learn significant amounts of vocabulary, in addition to challenging new grammatical concepts. Latin 2 students will begin to work with authentic Latin texts from antiquity, as well as translate more complex, artificial Latin stories from the curriculum textbook. Etymology, Greek/Roman culture, and spoken Latin continue to be critical components of the Latin sequence. Latin 2 will enable students to engage with primary source Roman authors, analyze and compare the cultural aspects and perspectives of various Classical Greek and Roman texts, and generate language that involves basic-intermediate vocabulary and grammar patterns.



H262. Senior Quest *A cross-disciplinary 21st Century independent project* *Prerequisite: By application only. Limited to 30 students.* (Course Credit is dependent on topic)

Gr. 12

1 Credit

Full Year

A capstone to the academic career of those enrolled, Senior Quest offers students a chance to engage in a self-directed, project-based process aided by a faculty adviser. Throughout the year, Senior Quest students will develop their skills as critical thinkers, collaborators, creators, and communicators as they explore a subject of deep, personal interest. The students' project development will unfold in four phases, coinciding with each quarter, which they will document via an original website dedicated to showcasing their experience. Their endeavor will culminate in a finished project or performance presentation open to HBHS faculty, students, and community.

Senior Quest: Honors-by-Contract

Weighted Course

Students enrolled in Senior Quest have the option of Honors by Contract. To be eligible for Honors Credit, students must agree to the terms outlined in a contract determined by the Senior Quest teacher at the beginning of the year.

Career and Technical Programs

Hollis Brookline students are eligible to participate in Alvirne, Milford, Mascenic, Nashua North, and Nashua South High Schools career and technical education programs. [The class listings on pages 72-90 are subject to change, based on the 2018-19 course offerings at the technology centers.](#) All courses take a hands-on approach to learning and prepare students for the work force, a technical college, or a four-year school. These classes are two periods in length and usually require one period for transportation to and from the school. Transportation is provided to these programs. All of the courses within the Career and Technical Programs have designated course numbers or descriptions. Interested students should state their intentions to their school counselors prior to the end of their sophomore year. Beginning with the Class of 2020, if a comparable CTE course is offered at both Nashua and Milford, whenever possible and subject to availability, the principal may use discretion to decide which program will be attended by students. *Some courses may qualify as a 4th year math experience or as a 3rd applied science credit, as approved at the discretion of the superintendent or designee.*

Alvirne High School

The following courses are available to students at Hollis Brookline High School and are offered as part of a two-year program to be taken during a student's junior and senior years.

Air Force JROTC	Heavy Duty Mechanics 1 & 2	Veterinary Science 1 & 2
Computer Science 1 & 2	Horticultural Operations 1 & 2	Welding 1
Forest & Wildlife Management 1 & 2		

Milford Applied Technology Center and Mascenic High School

Milford and Mascenic's Technical Studies Division offers a variety of two-credit programs in one or two-year sequences preparing students to:

1. Continue their courses of study in technical fields at two-or-four year-year colleges
2. Learn and apply technical and academic-related skills that will enable them to succeed at advanced levels of training and/or education
3. Acquire entry-level skills for employment upon graduation.

The following courses are offered as either one or two-year programs to be taken during a student's junior and/or senior years. Students need to complete at least the first two years of a program's sequence to fully benefit from the program.

Accounting	Computer Science	Marketing
Automotive Technology (Mascenic)	Construction Technology	Precision Machining
Biotechnology: Microbiology/Genetics	Culinary Arts	Pre-Engineering
Business	Graphic Arts	Video Production

Nashua Technology Center

The following courses are offered as part of a two-year program to be taken during a student's junior and senior years. Juniors and students who will be able to complete BOTH years of the program are given preference when enrollments in these courses are determined. Students must fill out an application (available from the School Counseling Department) for the first year of the program. Students who successfully complete the first year (level 1) of the program with a C- or higher will be allowed to enroll in the second level. Unless otherwise indicated, the courses are worth two credits and are considered restricted electives and free choice electives.

Advanced Precision Machine	Computer Networking 1 & 2	Intro to Engineering Design
Automotive Tech 1 & 2	Cosmetology 1 & 2	Health Sciences 1 & 2
Biotechnology 1 & 2	Culinary Arts 1 & 2	Hospitality & Hotel Management 1 & 2
CADD 1 & 2	Design & Visual Comm. 1 & 2	HVAC 1 & 2
Careers in Education 1 & 2	Electrical Trades 1 & 2	Precision Machine Tech 1
College Accounting 1 & 2	Engineering Pathways Electives	Video Production & Broadcasting 1 & 2
Construction Tech 1 & 2	Financial Services 1 & 2	

Technical Courses

Accounting

Accounting I (Milford) (Practical Arts)	Gr. 10-11	1 Credit	Semester
---	------------------	-----------------	-----------------

Accounting I provides strong foundational skills in the field of business and advanced accounting. Explore the language of business. Learn the accounting cycle using manual and computerized accounting systems for sole proprietorships and corporations. This semester course is open to students who want to understand the flow of money in a business. If you plan a career in accounting, business, finance, management, marketing, banking or plan on going into business on your own, this course is a must.

College Credit: May be available through the *Running Start* program.

Accounting II (Milford) (Practical Arts)	Gr. 11-12	1 Credit	Semester
--	------------------	-----------------	-----------------

Students will expand upon the foundation skills established in Accounting 1. Focus will be on departmentalized and corporate accounting systems as well as financial analysis, accounting for plant assets, and accrued accounting. Students will reinforce their learning by completing computerized projects and simulations to provide a realistic approach to problem solving. Students may have the opportunity to keep the financial records for various programs within the school. With such increased competency, students will be better prepared for entry into any post-secondary business program, or to pursue work in the business field.

College Credit: May be available through the *Running Start* program.

Recommendation: Successful completion of Accounting I with a C or higher.

Accounting III (Milford) (Practical Arts)	Gr. 11-12	1 Credit	Semester
---	------------------	-----------------	-----------------

In Accounting 3 you will learn budgetary planning and control, cost accounting, and not-for-profit accounting. In this self-paced course, you will work individually to reinforce your skills by completing a variety of computerized projects and activities that simulate real-world applications.

Recommendation: Successful completion of Accounting II with a C or higher.

College Accounting 1 (Nashua)
(Practical Arts)

Gr. 11

1 Credit

Semester

Accounting is the language of business. Students utilize spreadsheet software to keep financial records, summarize data, and analyze information to provide assistance to management for decision-making. This course is essential to any student considering a major in accounting, management, marketing, or finance.

College Accounting 2 (Nashua)

Gr. 11

1 credit

Semester

Prerequisite: College Accounting 1
(Practical Arts)

This college level course uses computerized accounting systems to expand on the foundation of previous accounting courses with a focus on corporate accounting. This course is highly recommended for students who plan to major in accounting, finance, marketing, or business management.

Air Force JROTC

JROTC 1 (Alvirne)

Gr. 9-12

Credit TBD

Full Year

This is the entry-level course for Junior ROTC, and first-time students are usually enrolled in this course regardless of their school status. Aerospace Academics focus on the history of aviation. The study of aviation pioneers and strong military leadership complements the history lessons. Leadership education is designed to help freshmen adapt to the high school environment, and include time management, fitness and wellness, flag etiquette, and customs and courtesies of the Air Force.

JROTC 2 (Alvirne)

Gr. 9-12

Credit TBD

Full Year

Prerequisite: Completion of or concurrent enrollment in JROTC 1 (with prior approval of instructor)

This is the second year course for Junior ROTC and is still taught at an introductory level. Aerospace Academics focus on the science of aviation, covering topics such as basic aerodynamics, aviation physiology, meteorology, and navigation. Additionally, topics in space studies are covered to include the solar system and the development of the U.S. Space Program. The Leadership Education is designed to improve student communication skills, and include speaking and writing assignments, study of individual and group behavior, and basic leadership concepts.

JROTC 3 (Alvirne)

Gr. 9-12

Credit TBD

Full Year

Prerequisite: JROTC 1 & 2 or concurrent enrollment with prior approval of instructor.

This is the third year course for Junior ROTC and is more academically challenging than JROTC 1 and 2. Aerospace Academics for this course is focused on Global Studies. This is a customized course about the world's cultures. The course is specifically created for the US Army, Marine Corps, Navy, and Air Force Junior ROTC programs. It introduces students to the world's cultures through the study of world affairs, regional studies, and cultural awareness. The course delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. It looks at major events and significant figures that have shaped each region. Leadership academics are designed to study and improve student management skills, choosing a career path, how to apply for and fund college, skills inventory and resume writing.

JROTC 4 (Alvirne)

Gr. 9-12

Credit TBD

Full Year

Prerequisite: JROTC 3

This is the fourth year course for Junior ROTC. Cadets in this class will be held to the highest academic and behavioral standards. Cadets in JROTC 4 will be charged with the management and leadership of the Alvirne High School cadet organization. Returning JROTC students must have an excellent academic record of performance, an exemplary record of behavior and classroom conduct, not only in JROTC but in

all classes, in order to enroll in JROTC. Students not meeting that standard may be denied enrollment in JROTC 4. The Leadership Educations Academics are all designed to study and improve student management skills. Students from JROTC classes may be assigned to supervise JROTC 1 classes.

Automotive Technology

Automotive Technology I (Mascenic, Nashua)

Gr. 11

2 Credits

Full Year

Prerequisite: Algebra 1 and 9th or 10th grade science

(Practical Arts)

Automotive Technology I explores the transportation industry, automotive industry, and specific automotive systems. Students learn about the vehicle lubrication, wheels and tires, brake systems, basic automotive electronics, and steering and suspension. Instruction time is divided between the classroom and the shop. Students are required to maintain a notebook and participate in repair and maintenance procedures in the automotive lab. *Note: Applicants must possess a valid driver's license without any violations.*

College Credit: May be available through the *Running Start* program.

Automotive Technology 2 (Mascenic, Nashua)

Gr. 12

2 Credits

Full Year

Prerequisite: Automotive Technology 1

(Practical Arts)

Students will participate in this work-study program consisting of instructional time spent in the classroom, as well as automotive lab and work time in area automotive service centers. Automotive Technology 2 is designed to prepare the student for further studies at the post-secondary level and/or a position in an entry-level job within the automotive repair industry.

Note: *Applicants must possess a valid driver's license without any violations.*

College Credit: May be available through the *Running Start* program.

Heavy Duty Mechanics 1 (Alvirne)

Gr. 11

2 Credits

Full Year

(Practical Arts)

This course is designed to give students an understanding of large diesel and gasoline engines, as related to construction and agricultural equipment. Subject areas include equipment operation and maintenance, theory of engine operation, engine overhaul, hydraulics, power train, operation, welding, diagnostics, and troubleshooting. Safety will be stressed in all aspects of the course. Students will apply what they learn by gaining practical experience in the heavy equipment shop. Students can apply what they learn to help them with careers in mechanics, agriculture, construction, or trucking.

Heavy Duty Mechanics 2 (Alvirne)

Gr. 12

2 Credits

Full Year

(Practical Arts)

This course allows students to apply and expand upon skills and knowledge gained in the first year of the program. Students will work on construction and agricultural equipment performing repair, overhaul, diagnostics, and troubleshooting. Students will become independent through projects requiring record keeping, disassembly, analysis, replacement of parts, and final reassembly to a working condition. Students will troubleshoot basic diesel engine malfunctions using the latest computer technology. This course will help prepare students for an entry level job in heavy equipment maintenance or a technical school program in mechanics.

Biotechnology

Microbiology: Principles and Practices (Milford)
(Life Science/Biology)

Gr. 11-12

1 Credit

Semester 1

Microbiology: Principles and Practices is an advanced laboratory and activity based program meant to introduce students to principles and practices of medical microbiology. Microbiology is an essential course for any student interested in a career in the life sciences such as nursing, microbiologist, geneticist, biochemist, forensic scientist, medical doctor or a veterinarian.

Note: Students may apply for Honors level credit that will require and independent research project.

College Credit: May be available through the *Running Start* program.

Biotechnology/Genetics (Milford)
(Science)

Gr. 11-12

1 Credit

Semester 2

This class is intended to expose students to various biotechnology fields such as microbial, agricultural, animal, forensic, bioremediation, aquatic, and medical. This class engages the student in several areas such as molecular biology, cell biology, immunology and bioethics. Techniques that will be discussed and used in the laboratory will include genetic engineering for the expression of a specific protein and immunoassay development in order to develop monoclonal antibodies. Through re-creations of actual industry investigations and intense laboratory efforts, students will perform individual research projects. Students will maintain lab equipment and will gain experience writing technical labs, protocols, and a formal research paper. Guest speakers will highlight the course work as well as industry related field trips. Mini-internships are available for the very motivated students. Students interested in pursuing careers such as forensic scientist, nursing, microbiologist, geneticist, biochemist, medical doctor or veterinarian will find Biotechnology a strong component of these career fields.

College Credit: May be available through the *Running Start* program.

Biotechnology 1 (Nashua)
Prerequisite: Algebra 1
(Life Science/Biology)

Gr. 12

2 Credits

Full Year

Students study biology and explore biotechnology by working in a real world laboratory environment. Learn basic protocols and advanced techniques for analyzing cell structures, genetic manipulation, medical microbiology, molecular biology, forensic analysis and protein production. In this academic course, students will explore the theories and technologies of the rapidly expanding biotech industry through valuable hands-on activities conducted in a state-of-the-art laboratory. Lab coats are required for this class. This course satisfies the Biology credit requirement.

Biotechnology 2 (Nashua)
(Science)

Gr. 12

2 Credits

Full Year

Become skilled in laboratory techniques most in demand in today's biotech industry. Learn more about genetics, cell structure, protein production and purification. Re-create actual industry investigations in a real-world biotech laboratory. Write a resume and build a personal portfolio by writing technical labs and protocols. Guest speakers and field trips will supplement your lab and class work. Internships may be available for qualified students.

Business and Hospitality

Applied Business Applications (Milford) Gr. 11-12 1 Credit Semester 1
(ICT, Practical Arts)

Explore intermediate applications of end-user productivity software, including office suites. Topics include the functions of business, exploring current trends and learning about business career opportunities. Topical discussions include the economics of business, our multicultural society and its implications for business, global business and social responsibility and business ethics.

Principles of Business & Entrepreneurship (Milford) Gr. 11-12 1 Credits Semester 2
(ICT, Practical Arts)

Learn advanced application of end-user productivity software, including office suites. Emphasis is on data sharing and integration, desktop information management, as well as interacting in each application with the Internet. Included is a study of business structures such as the forms of business organizations and entrepreneurship; an overview of the origin of law and the federal and state court systems; an introduction to the study of the law of contracts, property, bailment and agency. The case approach will be emphasized. Upon completion of Business Administration and enrollment in Business Management, juniors and seniors may apply for Running Start college credit.

Personal Finance and Career Management (Milford) Gr. 11-12 1 Credits Semester
(ICT, Practical Arts)

This course provides students with an opportunity to gain knowledge and skills that are necessary to function effectively as consumers, workers and responsible citizens in today's global economy. A multi-faceted focus on financial literacy and post high school education/training options as well as success in the modern workplace are stressed. Students learn skills to be an informed consumer, with key topics including income and taxes, budgeting, savings and credit, and checking account management. Students will be exposed to goal-setting, decision-making and problem-solving as foundational skills needed for success throughout their lifetimes. A professional portfolio will be developed as an essential element of this class.

Business Management and Law (Milford) Gr. 11-12 1 Credits Semester
(ICT, Practical Arts)

Business Management & Law is the capstone course in the Business Program at MHS/ATC and emphasizes the skills necessary to be an effective manager of any business. Students explore various forms of business ownership and are introduced to the roles and responsibilities of a business manager. All functions of management will be covered extensively including decision making, effective communication, and information processing skills. Students will gain practical knowledge while studying economic and social concepts related to laws governing businesses and individuals. Ethics and the law, employment law, consumer protection law and contract law are among the topics that will be included in this course of study.

Recommendation: Successful completion of *Personal Finance & Career Management* or *Principles of Business & Entrepreneurship* with a C or better.

Cosmetology 1 (Nashua) Gr. 11 2 Credits Full Year
(Practical Arts)

Prerequisite: Algebra and 9th or 10th grade science

Gain foundation competencies in Cosmetology related to orientation, safety, leadership, personal development, chemistry, properties of the scalp and hair, draping, shampooing, rinsing and conditioning, removing unwanted hair, waving, wet hairstyling, roller sets, manicures and pedicures, and thermal hair styling/blow drying. This is a hands-on course with practice and review in each area. You will be tested

individually on each subject and be required to pass a practical assessment as well.

Note: Students can gain hours toward State Cosmetology certification if they demonstrate competency in this course. *Licensing and uniform fees are required (total cost is approximately \$100).*

Cosmetology 2 (Nashua)

Gr. 12

2 Credits

Full Year

Prerequisite: Cosmetology I, Director approval
(Practical Arts)

Learn how to apply makeup and do advanced hair-cutting and facials. Gain experience and confidence by running the in-school salon. You will be invited to visit supply companies, attend cosmetology symposia, and learn from guest speakers working in the industry. In addition, you will investigate post-secondary educational programs that would enhance your career opportunities. Students must pass a written test on safety practices before they are permitted to use the products and chemicals the coursework requires.

Note: Students can gain hours toward State Cosmetology certification if they demonstrate competency in this course. *Lab fees are required.*

Business Finance 1 (Nashua)

Gr. 11-12

1 Credit

1 Semester

(Practical Arts)

Explore the principles and practices for the financial industry of the United States. Develop a strong foundation in banking, credit, investments, and insurance from the perspective of both consumer and industry specialists.

Business Finance 2 (Nashua)

Gr. 11-12

1 Credit

1 Semester

Prerequisite: Business Finance 1
(Practical Arts)

Explore the principles and practices for the International financial industry. Build on previous concepts from Business Finance 1 and explore international finance and financial planning.

Hospitality & Hotel Management 1 (Nashua)

Gr. 11

1 Credit

Semester

(Practical Arts)

Students will develop a broad understanding of the key aspects of the Hotel and Hospitality industry including different types of establishments. Year one offers an overview of hotel management, careers, guest services and organizations, front office operation, reservations, telecommunications, housekeeping, maintenance, and security. This includes the guest cycle, use of technology used to provide services and the marketing and business strategies to manage the overall hotel facility. Students will demonstrate mastery of the concepts learned in this course by taking the American Hotel and Lodging Educational Institute's (AHLEI) exam at the end of the course. Students will develop a portfolio with several standardized components that they will build upon through the program. At the end of the first year, students will be able to take the Guest Service Professional (CGSP) certification exam.

Hospitality & Hotel Management 2 (Nashua)

Gr. 12

2 Credits

Full Year

Prerequisite: Hosp & Hotel Management 1
(Practical Arts)

Students will continue to build upon the knowledge and skills obtained from year one. It is during their second year that students will advance into careers in hospitality and hotel management. Through a partnership with the Crowne Plaza, students will play a role in the hotel's strategic planning and participate in a career rotation through six departments. National certification in Certified Hospitality & Tourism Management Professional (CHTMP) is available to students who complete this program.

Students must receive a passing grade of 70% or higher on the party, national HTMP Year 1 and HTMP Year 2 final exams, provided by the American Hotel & Lodging Educational Institute. They must also successfully complete a 100-hour, on-site internship in the hospitality and tourism field.

Computer Science and Technology

Programming Fundamentals (<i>Milford</i>) (Practical Arts)	Gr. 11-12	1 Credit	Semester 1
--	------------------	-----------------	-------------------

This course is intended for students with no prior experience in computer programming. Students will be introduced to logic, ethics, number systems, and other fundamental computer science topics. Students learn to write computer code using the assistance of *Karel the Robot* and the Java programming language.

College Credit: May be available through the *Running Start* program.

Computer Science Principles (<i>Milford</i>) (Practical Arts)	Gr. 11-12	1 Credit	Semester
---	------------------	-----------------	-----------------

Computer Science Principles is designed to introduce students to the central ideas of computing and CS, to instill ideas and practices of computational thinking, and to engage students in activities that show how computing and CS change the world. In this course, students learn how to access the world of mobile services and applications as creators, not just consumers. They will create entertaining and socially useful apps that can be shared with friends and family. In addition to becoming better problem solvers, students will also explore the exciting world of computer science from the perspective of mobile computing and its increasingly important effect on society. This course is part of a national project through the College Board and national Science Foundation and is expected to become an AP level course in the future.

Java Programming (<i>Milford</i>) (Practical Arts)	Gr. 11-12	1 Credit	Semester 2
--	------------------	-----------------	-------------------

Prerequisite: Programming Fundamentals

This course is intended for students who have successfully completed Programming Fundamentals. Students with prior programming experience must obtain instructor approval. This class is considered a pre-AP class and students will be expected to complete written and programming assignments on various programming concepts including basic data structures. Emphasis is placed on procedural programming techniques, documentation, development of algorithms to process numerical information and text, and coding and debugging techniques.

Data Structures (<i>Milford</i>) (Practical Arts)	Gr. 11-12	1 Credit	Semester
---	------------------	-----------------	-----------------

Prerequisite: Successful completion of *Java Programming* with a grade of "B" or better.

This is a course in the study of program methodology, algorithms, and data structures as implemented in Java. Numerous applications of mathematical & linguistic computing provide the context in which these subjects are treated. Students create programs and work with logical and theoretical problems. The course is an Advanced Placement course and students taking this course will be expected to take the standardized AP test in May through which they can earn college credit by achieving a qualifying score on the test.

Computer Networking 1 (<i>Nashua</i>) (Practical Arts)	Gr. 11	2 Credits	Full Year
--	---------------	------------------	------------------

This course explores a computer network design by learning about the OSI model and current industry standards. Students study network topologies and IP addressing along with router configurations and required networking components. Program approved as CISCO Academy.

Computer Networking 2 (Nashua)**Gr. 12****2 Credits****Full Year***Prerequisites: Computer Networking 1*

(Practical Arts)

This class builds on the knowledge from Computer Networking 1 by studying advanced router configuration, LAN switching theory, VLANs and VLAN trunking protocol, classless routing such as CIDR and VLSM, WAN theory, design and technology including PPP DDR ISDN and Frame Relay. Explores network

Computer Science Essentials (Alvirne)**Gr. 11-12****Credits TBD****Full Year**

(Practical Arts)

Prerequisite: Successful completion of Algebra 1 and ICT Literacy or middle school computer science.

Computer Science Essentials is intended to be a great place for those new to programming, and for those with prior knowledge who wish to continue their exploration and learning. Students learn the fundamentals of programming with an emphasis on problem solving and logical thinking. Topics covered include: graphics, animation and games, data structures, and more. Students will have the opportunity to work in an interactive and collaborative environment.

Computer Science Principles (Alvirne)**Gr. 11-12****Credits TBD****Full Year**

(Practical Arts)

Prerequisite: Successful completion of Computer Science Essentials; Geometry and Algebra 2 recommended

Computer Science Principles expands on the foundations learned in Computer Science Essentials to further challenge students' programming skills. Students will learn web design, computer program development techniques, computational thinking, troubleshooting, algorithm development, data structures, and graphics using languages current to the industry. They will learn how to develop a software product from concept definition, to requirements and testing methods. They will learn computer organization, how the Internet works, and the societal impacts of computer science. The curriculum follows a syllabus that is recognized by the College Board as an approved curriculum for AP Science Principles. This allows the students an option to fulfill the College Board course requirements and to help prepare students for the AP Computer Science Principles exam.

Construction Technology

Construction Technology 1 (Milford)**Gr. 11-12****1 Credit****Semester 1**

This is the first semester of the Construction Technology Program. It will be an introduction to basic residential construction, safe operation of construction-related hand and power tools, blue print reading and construction math principles. Students will engage in a variety of modules to learn skills, practice those skills and demonstrate proficiency in basic construction technology program competencies. Skills USA activities are an important part of the student experience in this program.

Construction Technology 1 (Nashua)**Gr. 11****2 Credits****Full Year**

(Practical Arts)

The skills and knowledge learning in Construction Technology will help students to develop a basis for a wide range of careers in the building industry, whether they are interested in the trades, construction design and planning or management. During Construction 1, student will learn the safe operation of hand and power tools, as well as how to read blueprints and understand construction with math principles. Their new skills in carpentry, siding and roofing will allow them to successfully build small construction projects such as a dog house and sheds. Students may participate in the construction of a modular house on-site at

Nashua High School South. The Construction Technology program is committed to giving students the opportunity to network within the industry and participate in community construction projects.

Residential Finish Carpentry (Milford) (Practical Arts)	Gr. 11-12	1 Credit	Semester 2
---	------------------	-----------------	-------------------

Prerequisite: Successful completion of *Construction Technology I* with a grade of “C” or better.

This course teaches all aspects of Residential Finish Carpentry, in which students will focus on theory and practical applications engaging them in a variety of projects. Components encompass wall and ceiling coverings, interior door selection and installation, interior trim details and installation, and basic cabinetry. Students will walk away with a creative skill set applicable to personal or career endeavors. Students who have completed one semester of Residential Finish Carpentry with a C or better are encouraged to enroll in one semester of *Advanced Construction* to complete the Construction Technology Program competencies and to become proficient through practice.

Adv. Construction Tech (Milford)	Gr. 11-12	1 Credit	Semester 2
---	------------------	-----------------	-------------------

This course is the continuation of the Construction Technology Program. Students in Adv. Construction Technology review many of the skills learned in Construction technology but use these skills to perform more complex and challenging operations and projects such as stair building, advanced finish work and advanced framing. Advanced students are encouraged to take leadership roles in Skills USA activities.

Construction Technology 2 (Nashua) (Practical Arts)	Gr. 12	2 Credits	Full Year
---	---------------	------------------	------------------

Students in Construction Technology 2 will continue to develop their skills and abilities in many areas of construction. In addition to continuing to practice their skills in regards to carpentry, siding, and roofing, they will learn about and practice all other aspects of new home construction such as site preparation, cabinet installation, insulation, installation of windows and doors. Students may construct an on-site modular house, therefore, their hands-on activities are extensive. Students will continue to have opportunities to network within the building industry, participate in community construction projects, and learn about the many diverse career and college/training opportunities available to them after high school graduation. OSHA IO certification available.

Residential Finish Carpentry (Milford) (Practical Arts)	Gr. 11-12	1 Credit	Semester 2
---	------------------	-----------------	-------------------

Prerequisite: Successful completion of *Construction Technology I* with a grade of “C” or better.

This course teaches all aspects of Residential Finish Carpentry, in which students will focus on theory and practical applications engaging them in a variety of projects. Components encompass wall and ceiling coverings, interior door selection and installation, interior trim details and installation, and basic cabinetry. Students will walk away with a creative skill set applicable to personal or career endeavors. Students who have completed this course with a C or better are encouraged to enroll in *Advanced Construction* to complete the Construction Technology Program competencies and to become proficient through practice.

Culinary

Culinary Arts 1 (Milford) (Practical Arts)	Gr. 11-12	2 Credits	Full Year
--	------------------	------------------	------------------

This introduction to the professional kitchen includes sanitation and safety in a food production area. Attention is focused on food-borne illnesses and their origins along with knife skills and equipment

identification. Students will learn techniques in baking to produce breads, rolls, breakfast items, cookies, and cakes. Students will be introduced to pastry production. Students will become proficient in preparing stocks and soups and learn the proper techniques of preparing delicious vegetables, salads and dressings.

College Credit: May be available through the *Running Start* program.

Culinary Arts 1 (Nashua) (Practical Arts)	Gr. 11	2 credits	Full Year
---	---------------	------------------	------------------

Prepares a student for a career in the food service industry. Students train in the basics of planning, purchasing and preparing food in quantity. Students learn cooking techniques and preparation, selection and use of utensils and equipment and safety and sanitation techniques involved in food preparation. The culinary program is certified through the American Culinary Federation. Demonstrating your skill, knowledge, and professionalism in the food service industry gives you a competitive edge over other chefs.

Note: Students are required to provide their own uniform and black safety shoes. Fees for this course cover the purchase of chef coats, pants, aprons, and a hat and total approximately \$120. Non-slip shoes are also required.

Culinary Arts 2 (Milford) (Practical Arts)	Gr. 12	2 Credits	Full Year
--	---------------	------------------	------------------

This continuation of *Culinary Arts 1* builds upon the foundation skills learned in Level 1 as students produce a more refined product. Areas of study include: sauces (demi-glace, velouté, béchamel, tomato, hollandaise), cooking techniques (sautéing, stir-frying, pan and deep-frying, grilling, broiling, etc.), seafood cookery, and refining knife skills. Students will be introduced to basic cake decoration. Working as part of a team in the on-site restaurant/bakery, students will learn dining room service, experience retail sales and training (with an introduction to a Point of Sales System), menu-planning, and food/labor costs.

College Credit: May be available through the *Running Start* program.

Culinary Arts 2 (Nashua) <i>Prerequisite: Culinary Arts 1</i> (Practical Arts)	Gr.11, 12	2 Credits	Full Year
---	------------------	------------------	------------------

Students study kitchen design and layout, food costs, inventory management, and cost controls. They learn how to plan for a serve at banquets. They receive assistance during the year in making postsecondary plans and/or obtaining employment in the food service industry.

Note: Students are required to pass the *Serve Safe* exam. Fees for this course cover the purchase of Chef coats, pants, aprons, and a hat and total approximately \$120. Non-slip shoes are also required.

Education

Careers in Education 1 (Nashua) (Practical Arts)	Gr. 11	2 Credits	Full Year
--	---------------	------------------	------------------

This course introduces students to the basic knowledge needed to pursue a career in the Early Childhood education field. Learn how to set up a classroom environment and how to maintain the health, safety and nutrition of the children in your care. Students explore different philosophies in early childhood education, review children's literature, learn about behavior management and receive an introduction to curriculum and lesson planning. In addition, students work in the Purple Panther Preschool and get hands-on experience with preschool children between the ages of three and four years old.

H1061. Careers in Education 2 (Nashua)	Gr. 12	2 Credits	Full Year
<i>Prerequisite: Careers in Education 1</i>			
(Practical Arts)			

Learn about the development of the 6-12 year old in a work-based learning environment. Three days a week, you will work as a teacher's aide at local elementary schools during regular class time. In addition to studying philosophies of elementary education, you will explore numerous job possibilities that you will have in our changing society. This course is recommended for students seeking child related careers and positions as future educators.

Electrical Technology

Electrical Technology 1 (Nashua)	Gr. 11	2 Credits	Full Year
(Practical Arts)			

This course is designed to teach the skills required to become an apprentice electrician. In this program, students learn to install electrical equipment for lighting, heating and power applications in commercial and residential buildings according to the National Electrical Code.

Electrical Technology 2 (Nashua)	Gr. 11-12	2 Credits	Full Year
<i>Prerequisite: Electrical Technology 1</i>			
(Practical Arts)			

In this course, students further study residential wiring and the National Electrical Code. Topics covered include commercial wiring applications such as motor control, conduit bending and fire alarm systems. Students who successfully complete two years of Electrical Trades Technology training receive 144 hours of credit toward an apprentice license.

Digital Electronics (Nashua)	Gr. 11-12	1 Credit	Semester
<i>Prerequisite: Introduction to Engineering</i>			
(Practical Arts)			

From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry including logic gates, integrated circuits and programmable logic devices.

Environmental Sciences

Forest & Wildlife Management 1 (Alvirne)	Gr. 11	2 Credits	Full Year
Forest & Wildlife Management 2 (Alvirne)	Gr. 12	2 Credits	Full Year
(Practical Arts)			

This course is designed for students with an interest in a career in the outdoors. It will help prepare students for an entry-level job or a college education in a natural resources field. It will cover use, maintenance, and repair of forestry tools and machinery (including chainsaws and heavy equipment). Students will learn many aspects of natural resources including forest ecology, forest fires, insects and diseases, forest management, technical tree climbing, and wildlife. Considerable amounts of outdoor work will be required. Students must have steel-toed boots.

Horticultural Operations 1 (*Alvirne*)
(Practical Arts)

Gr. 11

2 Credits

Full Year

This two-year program offers an in-depth look into the field of Horticulture. This course will offer instruction on greenhouse operations and plant propagation as well as various growing techniques. Students will also be introduced to other disciplines in the field of horticulture by exploring landscape maintenance and design. Instruction emphasizes knowledge and understanding of the importance of establishing, maintaining, and managing ornamental horticulture enterprises. Typical instructional activities include hands-on experiences with propagating, growing, establishing, and maintaining greenhouse crops; designing landscapes; landscape maintenance; preparing designs; sales and management; participating in personal and community leadership development activities; and participating in FFA activities.

Horticultural Operations 2 (*Alvirne*)
(Practical Arts)

Gr. 12

2 Credits

Full Year

The Horticultural Operations 2 course is a continuation of Horticultural Operations 1. This course includes organized subject matter and practical experiences related to plants used principally for ornamental or aesthetic purposes. Instruction emphasizes knowledge and understanding of the importance of establishing, maintaining, and managing ornamental horticulture enterprises. This two-year course will prepare students for entry level jobs or further education leading to employment in the green industry.

Graphic Arts & Communications

Adobe Photoshop (*Milford*)
(Practical Arts)

Gr. 11-12

1 Credits

Semester 2

The Graphic Design is designed to give students an understanding of Adobe InDesign and the offset printing press. The next time you read your favorite magazine or go through the latest catalog that arrives in your mailbox, stop for a moment and think about how that publication came to be. First, writers, editors and designers participate in the creative process. Printers take that creative work and turn it into the publications you read every day. In this class you will learn the theories of graphic design while designing and producing several real-world projects. Students learn basic and advanced techniques for designing and creating effective promotional pieces, publications, and digital-art. In addition, students gain a foundational knowledge of the processes behind commercial printing operations.

Screen Printing (*Milford*)
(Practical Arts)

Gr. 11-12

1 Credits

Semester 1

Screen Printing is designed to give students an understanding of Adobe Illustrator and Screen Printing. Have you ever wanted to silkscreen your own designer t-shirts? Here's your chance! Screen printing is arguably the most versatile of all printing processes. It can be used to print on a wide variety of materials including paper, plastics, glass, metals, fabrics, and many other materials. Some common products from the screen printing industry include posters, labels, decals, and all types of textiles and electronic circuit boards, and yes, this is the class in which you make t-shirts. Students use Adobe Illustrator--computer software that enables users to design digital illustration and edit vector graphics images and save them as files into a number of vector graphics formats.

Design and Visual Communications 1 (Nashua)
(Practical Arts)

Gr. 11

2 Credits

Full Year

Students will learn the history of design, principles and practices of graphic design using typographic components. This year long course will introduce students to the basic elements of graphic visual communication through lecture, demonstrations and hands-on applications in a state-of-the-art MAC lab. Adobe Illustrator software is used in exploring visual perception through a variety of creative exercises that include but are not limited to: composition, graphic design principles, digital photography and typography. This program is aligned with Plymouth State University and articulation credit may be earned with successful completion of the program.

Design and Visual Communications 2 (Nashua)
Prerequisite: Design and Visual Communications 1
(Practical Arts)

Gr. 12

2 Credits

Full Year

Students will continue to develop skills that lay the foundation for basic design, color theory and practical lab application. Students will explore, experiment and apply proper application of ideas through the design process. Project management, collaboration, peer review, design and redesign, research and communications are essential components emphasized during the second year. Adobe InDesign and Photoshop software are used in exploring design problems, logo design and designing symbols in a state-of-the-art MAC lab. Project activities focus on further developing thinkers that translate concept into digital illustrative form. This program is aligned with Plymouth State University and articulation credit may be earned with successful completion of the program.

Health Sciences

Health Sciences 1 (Nashua)
Prerequisite: Biology or life science
(Science)

Gr. 11

2 Credits

Full Year

Explore health occupations through this overview of Anatomy of Physiology. Included in this class are labs, which solidify the information received in the theory portion of the class. This class also includes the study of medical terminology, career School Counseling, and the opportunity to become First Aid Certified. College credit may be available. Students will be required to purchase lab coats, a t-shirt, name tag pins, CPR certification cards that cost approximately \$40.00.

Health Sciences 2 (Nashua)
Prerequisite: Health Sciences 1
(Science)

Gr. 12

3 Credits

Full Year

Upon acceptance into level 2, students receive on-the job clinical training which will help prepare for the many careers available in the health care field. It is through this program that students are offered the opportunity to pursue their certification as a Licensed Nursing Assistant (LNA) by taking the NH State LNA Licensure exam. As part of the LNA programs, students apply academic knowledge using a hands-on approach by assisting at local nursing facilities during their daily school hours. Those who don't pursue the LNA option will shadow various health careers based on student interest. Clinical rotation in other health care fields may be offered if employer sites are available.

Note: Each section of Health Sciences 2 will include a second block either in the fall or spring semester in addition to the full year single block. All students must have up-to-date proof of immunizations on file before clinical visitations. Mandatory drug testing and background checks are required. Students are also required to pay for LNA scrubs, name tag pins, a watch with a second hand, and LNA test fee, a state and a

licensing fee, as well as fees for the background check and drug testing, total cost of which is approximately \$300.

Veterinary Science 1 (Alvirne)

Gr. 11

2 Credits

Full Year

Prerequisite: Biology

(Science)

The first year of this two-year course introduces students to the applied principles and practices used in small and large animal related business with a special emphasis on veterinary medicine. Students will explore concepts through hands-on experiences working with Alvirne's kennel animals such as chinchillas, rabbits, guinea pigs, ferrets, rodents, and birds along with our large animal species including donkeys, dairy cattle, and a Haflinger horse. Topics will also include safety, animal behavior, breed and species identification, animal health, welfare and client relations. Through continuous exposure to animals on the school farm and small animal facility, students will develop hands-on skills in handling, restraint, grooming, feeding, breed selection, cleaning/disinfection, training, and record keeping. Students will develop skills in professional telephone etiquette and customer service. Students will also be required to complete 12 hours of community service in an animal related service project. This course will provide students with entry levels skills and knowledge for employment as veterinary assistants, pet shop workers, humane society assistants or assistant groomers. Enrolled students may choose to compete in the State/National FFA Veterinary Science Competition.

Note: Students successfully completing Veterinary Science 1 and 2 with a C+ or better can earn 2 college credits at Great Bay Community College through Project Running Start (or 1 life science credit toward graduation), or articulation credits toward SUNY at Cobleskill.

Veterinary Science 2 (Alvirne)

Gr. 11

2 Credits

Full Year

Prerequisite: Successful completion of Veterinary Science 1

(Science)

In the second year of the Veterinary Science program, students will continue to build on their knowledge and skills gained in the first year. Using the kennel's small animals and large animal species, advanced topics will include nutrition and anatomy, health and disease and veterinary medical terminology and entrepreneurship. Hands-on skills will be developed in feed selection, laboratory procedures (i.e. fecal analysis, blood and urine analysis), animal health and disease prevention, such as vaccinations, de-worming, grooming, physical exams, office skills, equipment identification and business management. Students will also be required to complete 12 hours of community service in an animal-related service project. Enrolled students may choose to compete in the State/National FFA Veterinary Science Competition. Successful completion of this program greatly enhances a student's potential for success in post-secondary education, as well as entry level job in an animal science field.

Note: Students successfully completing Veterinary Science 1 and 2 with a C+ or better can earn 2 college credits at Great Bay Community College through Project Running Start (or 1 life science credit toward graduation), or articulation credits toward SUNY at Cobleskill.

Heating, Ventilation & Air Conditioning (HVAC)

Heating, Ventilation, Air Conditioning, and Refrigeration 1 (Nashua)

Gr. 11

2 Credits

Full Year

(Practical Arts)

Students learn refrigeration fundamentals, electricity and controls; installing, operating, servicing, and repairing both heating and air conditioning equipment through classroom demonstrations and laboratory experiments. They work on domestic and commercial refrigeration and window and central air conditioning

equipment, including heat pumps and oil and gas systems. Students learn on modern equipment, including three-phase electrical components. The demand for skilled technicians far exceeds the supply in this field.

Heating, Ventilation Air Conditioning and Refrigeration 2 (Nashua) **Gr. 12** **2 Credits** **Full Year**
Prerequisite: HVACC-R 1
 (Practical Arts)

Students learn to perform systems tests, troubleshoot and repair heating, air-conditioning and refrigeration systems with state-of-the industry equipment on a variety of models and makes of both residential and commercial HVAC systems. They learn to use a variety of tools and instruments to perform tests for electrical, pressure and burner efficiency. Laboratory activities focus on refrigeration systems (component installation and repair), pipe fitting, ventilation ducting, air-conditioning unit service and furnace and burner service. Individual safety codes pertaining to each type of system are addressed and adhered to during lab activities.

Marketing

Marketing 1 (Nashua) **Gr. 11** **1 Credit** **1 Semester**
 (Practical Arts)

Learn about the fundamentals of marketing through group [projects, discussions, and presentations. In the first year of this course, students will learn about product/service management by creating a new product, promotion and selling, target marketing and the marketing mix. The course will culminate with the development of a promotional portfolio for a business that you will create.

Marketing 2 (Nashua) **Gr.11, 12** **1 Credit** **1 Semester**
Prerequisite: Marketing 1
 (Practical Arts)

Continue learning the functions of marketing (distribution, packaging, pricing, and marketing information management) through practical experience gained in the school store, market research for local employers, conducting SWOT analysis for businesses, creating a new brand character as Nashua Technology Center DECA leaders. Students will be exposed to marketing experiences that will reinforce the skills you have and add skills of operations administration, leadership and business management as well as hands-on experience. Those skills will be developed with student participation in the Marketing lab located in the school store.

Marketing (Milford) **Gr. 11-12** **1 Credit** **Semester 1**
 (Practical Arts)

Have you ever bought something and a few days later wondered why you spent all your money on it? In this course students obtain skills to understand the world of MARKETING, including purchasing, financing, distribution, psychological pricing, risk management, the marketing mix, market research, and designing a marketing plan. Students will develop a portfolio of their best work to bring to a job or college interview. Operation of the school store will give students the practical experience they can apply to the competencies studied. Also, job seeking and keeping skills will be explored. Students are encouraged to join DECA, a student organization, whose goal is for students to develop a "career success kit" to carry into their business and personal lives!

Marketing 2 (Milford) **Gr. 11-12** **1 Credit** **Semester 2**
 (Practical Arts)

Students continue their marketing education through practical experiences gained in the school store and marketing research. Students work as merchandise category managers of the school store at Milford and also are responsible for its fiscal operations.

Marketing 3 (Milford)
(Practical Arts)

Gr. 12

1 Credits

Semester

This course is designed for the serious marketing student who has successfully completed all state competencies in *Marketing Education 1 and 2*. Students perform topical research and invest time in marketing businesses doing real world tasks. Students will have the opportunity to choose individualized projects every marking period, each with a career focus.

Precision Machining

Manufacturing & Machining Technology 1 (Nashua)
(Practical Arts)

Gr.11

2 Credits

Full Year

This course teaches the basics of manual and computer machining of metal products. Students will learn about machine shop safety, machining processes, blueprint reading, inspection techniques, applied math in the workplace, and the materials used in the manufacturing and machining industry. Advanced manual machine processes will be used to introduce the technology of Computer Assisted Drafting and Machining (CAD/CAM) and the set up and operation of highly advanced Computer Numerical Control (CNC) machines. Lab projects build common skills expected by manufacturing and machining employers and post-secondary schools who train machinists, technicians, and engineers.

Manufacturing & Machining Technology 2 (Nashua)

Gr.11, 12

2 Credits

Full Year

Prerequisite: Man. & Mach. Tech 1

(Practical Arts)

This course emphasizes Computer Assisted Drafting and Machining (CAD/CAM) applications for high end CNC and manual machine project design and production. Students learn and apply advanced machining skills, quality assurance, applied meth, metals and composite materials, blueprint reading, and engineering basics. The student will be taught this in a “real world” workplace environment where learning is primarily “hands on.” Students complete a capstone project during second semester.

Precision Machining (Milford)
(Practical Arts)

Gr. 11

1 Credits

Semester 1

This is the first semester of the Precision Machining Program. It will be an introduction to basic machine operations and blueprint reading which includes instruction in lathes, milling machines, surface grinders, and drill presses. Students learn basic measuring techniques which incorporate the use of micrometers, depth micrometers, Vernier calipers, and dial indicators. Students develop skills to machine parts using raw materials with information from a blueprint. Skills USA activities are an important part of the student experience in this program.

Advanced Precision Machining (Milford)
(Practical Arts)

Gr. 11-12

1 Credit

Semester 2

This course is the continuation of the Precision Machining Program. Students in *Advanced Precision Machining* review many of the skills learned in *Precision Machining* but use these skills to perform more complex and challenging operations. Students will design and manufacture projects using Master Cam. A strong emphasis is placed on Numeric Control and Computer Numeric Control (NC/CNC) programming. Students will write their own programs to machine parts on the Prototrack milling machine, lathes as well as all Intellitek machines. This course relies heavily on applied activities with many opportunities for

students to take on projects of their own design. Advanced students are expected to take leadership roles in Skills USA activities. Opportunity for 6 credits for dual enrollment with Nashua Community College.

Pre-Engineering

Introduction to Engineering Design (Nashua) **Gr. 11, 12** **1 Credit** **1 Semester**
(Practical Arts)

Develop three dimensional solid models by working from sketching simple geometric shapes to applying the use of solid modeling software Autodesk Inventor. Students work within a problem solving design process and learn how it is used in industry to manufacture a product. They use Computer Aided Design System (CAD) to analyze and evaluate the product design. The techniques learned and equipment used is state-of-the-art and are currently in use by engineers throughout the United States.

Engineering Design (Milford) **Gr. 11-12** **1 Credit** **Semester 2**
(Practical Arts)

Prerequisite: Successful completion of *Algebra I* and *9th/10th science* with C or higher

Engineering Design is a foundational college level course offered as a component of the Mechatronics Certificate Program at Manchester Community College. This course allows students to develop their design skills with an emphasis on placed on graphics as the primary means of communication using a myriad of Autodesk software products. This software is specific to engineering professions from mechanical engineering, architectural, and computer graphics/illustration design. A series of projects are used to teach the design process with emphasis on problem identification, criteria generation, brainstorming, decision-making, detailed design, economics and project management. Teamwork is emphasized as students are randomly assigned to groups for all of the course projects.

Engineering Design & Development (Nashua) **Gr11, 12** **1 Credit** **1 semester**
Prerequisite: *Introduction to Engineering Design*
(Practical Arts)

The knowledge and skills students acquire through various engineering and STEM courses come together in this course as they identify and issue and then research, design and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards. Completing EDD prepares students for various post-secondary programs and entry level work.

Principles of Engineering (Nashua) **Gr. 11, 12** **1 Credit** **1 Semester**
(Practical Arts)

Through problems that engage and challenge, students explore 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.

Advanced Engineering Design (Milford) **Gr. 11-12** **1 Credit** **Semester 2**
(Practical Arts)

This one semester course provides students with the opportunity to focus on Invention and Production concepts. It expands on concepts learned in Engineering Design. Students begin with the reiteration of

Autodesk's software Inventor a parametric modeling program. The software is used to develop 3-D assemblies, presentations, and marketing plans. Students then begin to apply design process to projects of their design. Once they fully grasp the concepts students then apply this knowledge to project based applications. This course integrates math, science, and technology with practical and applied applications. Course completers will have the requisite knowledge of design basics, and be able to implement solutions for problems in an engineering world.

Computer Aided Drafting & Design 1 (Nashua)
(CADD I) (Practical Arts)

Gr. 11

2 Credits

Full Year

Design your own building or product using state-of-the-artAutodesk software applicaitons. Learn how to use commands, capabilities and procedures to produce a professional, industry-standard drawing. After a general introduction to computer-aided design and drafting, you will choose one of two self-paced tracks--Architectural/Civil drafting or Mechanical/Electrical drafting. In Architectural /Civil drafting, you will create floor plans, elevations, and section views from your own designs and learn how to create all the plans required for a building permit. In Mechanical/Electrical drafting, you will create mechanical assembly designs of your own products and learn basic geometric tolerance, fits, manufacturing processes, and electrical drafting. You will also use computer controlled machines to make products.

Computer Aided Drafting & Design 2 (Nashua)
(CADD II) (Practical Arts)

Gr. 12

2 Credits

Full Year

Enhance your understanding of state-of-the-artAutodesk software applications. By continuing self-paced tracks in either Architectural/Civil drafting or Mechanical/Electrical drafting, you will sharpen your skills and expand your knowledge of computer-aided drafting and design. In Architectural/Civil drafting, you will explore residential, commercial and civil drafting and work in groups to complete a design requirement and generate professional grade plans. In Mechanical/Electrical drafting, you will design mechanical and electrical systems and work in groups to complete a design requirement and generate professional grade plans.

College Credit: May be available through the *Running Start* program.

Mechatronics Precision Machining (Milford)
(Practical Arts)

Gr. 11

1 Credit

Semester

This one semester college level course offers participants the opportunity to earn 3 college credits (see above). Students begin to develop their design skills as the central core of engineering. These skills begin with an emphasis using graphics as the primary means of communication using a myriad of Autodesk software products. This software is specific to engineering professions, from mechanical engineering, to architectural, and computer graphics/illustration design. A series of projects is also used to teach the design process with emphasis on problem identification, criteria generation, brainstorming, decision making, detailed design, economics and project management. Teamwork is emphasized as students are randomly assigned to groups for all of the course projects.

Computer Integrated Manufacturing (Nashua)
(Practical Arts)

Gr. 12

1 Credit

Semester

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing while teaching students about manufacturing processes, product design, robotics and automation. Students can earn a virtual manufacturing badge recognized by the Natuional Manufacturing Badge system.

Computer Integrated Manufacturing (Milford)**Gr. 12****1 Credit****Semester**

(Practical Arts)

Prerequisite: Engineering Design, Mechatronics, and Precision Machining with C or higher

Computer Integrated Manufacturing is a college level course and an integral component of the Mechatronics Certificate Program at MCC. Students will explore the manufacturing process not only as a sequence of material manipulation but also as a product of management. Current managerial philosophies and their effect on every phase of manufacturing will be examined. This information will be synthesized and applied to a manufacturing model, which will give students an opportunity to test their theories on managing a manufacturing facility with limited resources. Throughout the course, emphasis will be placed on effective workplace skills including teamwork, integrity, and dependability.

Video Production**Video Production 1 (Milford)****Gr. 11-12****1 Credits****Semester 1**

(Practical Arts)

Students in this program will develop skills in video and audio production. They will learn on studio/post-production equipment. While there is a large amount of hands-on experience in this course, students should recognize that a significant amount of "note-taking" will also take place. Basic competencies will be developed on individual equipment and through small group production projects. This program includes the use of non-linear computer-based editing as well as the use of computer generated graphics.

Video Production 2 (Milford)**Gr. 11-12****1 Credits****Semester 2**

(Practical Arts)

Continuing the work started in Video Production 1; planning and writing are significant parts of this course. Students will do more volunteer work in community productions; and may be employed part-time in paid internships with professional producers.

Video Production & Broadcasting (Nashua)**Gr. 11****2 Credits****Full Year**

(Practical Arts)

Students learn video production and broadcasting by experiencing hands on the roles of producer, writer, camera operator, host, editor and technician in Nashua High School South's state of the art broadcast facility and Mac computer lab. They learn about the art and technology of modern communication while producing useful and attractive programs for the class, the high schools and the school district. They increase self-confidence and organizational abilities by planning, writing, and completing their own projects. In the first half of the year, students complete a series of exercises designed to introduce them to the concepts and practice of multimedia project management. In the spring semester, they propose programs and produce those approved by the instructor.

Video Production & Broadcasting 2 (Nashua)**Gr. 12****2 Credits****Full Year***Prerequisite: Video Production & Broadcasting 1*

(Practical Arts)

This class builds on the knowledge gained in the previous year by writing, producing and creating video programs for the class, the high schools, the school district and the community. Students learn more about cable, satellite and web based distribution channels. They build a reel and resume helping them qualify for further education and employment.

Welding

Welding 1 (Alvirne)

Gr 10-12

Credits TBD

Full Year

Students will learn to arc weld in the flat position, utilize an oxy-acetylene torch for cutting metal and learn basic MIG skills. Through various exercises students will select the proper welding materials and demonstrate appropriate techniques. This course is useful for any student planning a career in the fields of mechanics, engineering, agriculture, construction, machine trades, or civil technology. Students **MUST** successfully complete all competencies to advance to Welding 2. Grade 10 & 11 students will be given priority when scheduling.

Welding 2 (Alvirne)

Gr 11-12

Credits TBD

Full Year

In year two of the welding program students will delve into advanced MIG, TIG, and stick welding skills. Using torch and plasma cutters students will develop their own self-directed projects to encourage growth of welding skills and to connect program contents to real life applications. Students will use oxy-fuel, shielded metal arc, metal inert gas, gas tungsten arc, gas metal arc, and plasma metal arc to develop real-world skills in a controlled environment. Students will build partnerships with business and community members to help master skills.

Extracurricular Student Programs

The following extracurricular activities are currently available for students. Some of these activities are subject to change depending upon availability of advisors and student interest.

A Cappella Club "Fermatta Nowhere"	Green Group	Ski & Snowboard Club
Book Club	HB The Change	Spanish Club
CavChronline (Newspaper)	The HomeFront Club	Student Council
Chemistry Club	Life of a Cavalier	Tech Crew
Crew Club	Math Team	Theatre Program
Dance Team	National Honor Society	Tri-M (Music Honor Society)
Debate Team	Pep Band	US FIRST Robotics Team
French Club	Outing/Climbing Club	Yearbook
Gay Straight Alliance	Red Cross Club	Young Writers Club
Granite State Challenge		

Athletic Programs

The Athletic Programs at HBHS consist of an interscholastic program governed by the NHIAA. The program is elective and is offered after regular school hours. The interscholastic sports are conducted in the fall, winter, and spring seasons, with the teams competing against schools in New Hampshire. All contests are played under New Hampshire Interscholastic Athletic Association Regulations. Each student must satisfy eligibility requirements set by the NHIAA and Hollis Brookline High School.

NHIAA Handbook, Sect. 2: Scholastic Standing

A. No pupil who has failed to pass four (4) units of work during the school's previous grading period shall represent the school in any interscholastic contest. A minimum of four (4) units of work per grading period is required for participation in interscholastic athletics.

A physician's or nurse practitioner's statement certifying that the student has passed a pre-participation physical examination within six months prior to the student's first participation in high school interscholastic sports as well as an updated one two years later (normally their freshmen and junior years) must be on file in the school health office as well as with the Athletic Trainer (ATC). Every year each athlete shall have on file with the ATC an annual medical history exam in order to ascertain any injuries or conditions that would warrant an updated physical exam.

Any pupil significantly ill or injured during their high school athletic career must be re-examined by a physician in order to be eligible to return to interscholastic sports. A statement from the physician certifying physical eligibility must be on file with the health office as well as the Athletic Trainer.

All members of interscholastic sports teams will be required to pay a participation fee (which varies from sport to sport) each sports season in which they participate, to help defray the costs of interscholastic sports. An annual cap per family is placed on this fee. In order to allow as many students as possible to participate in athletics, students cannot try out for, or be members of, more than one sports team each season with the exception being placekicking for the football team.

Athletes who intend to participate in collegiate athletics must register with the NCAA Eligibility Center. Check www.NCAA.org for general information and www.eligibilitycenter.org to register.

HBHS Athletics

	<u>Fall</u>	<u>Winter</u>	<u>Spring</u>
Boys	Bass Fishing Cross Country Golf Football, <i>Varsity, JV</i> Soccer, <i>Varsity, JV, Unified</i> Spirit Squad	Alpine Ski Team Basketball, <i>Varsity, JV, Freshmen, Unified</i> Bowling Indoor Track Gymnastics Ice Hockey Spirit Squad Swimming Wrestling, <i>Varsity, JV</i>	Baseball, <i>Varsity, JV</i> Lacrosse, <i>Varsity, JV</i> Track & Field, <i>Varsity, JV, Unified</i> Tennis Volleyball, <i>Varsity, JV</i>
Girls	Bass Fishing Cross Country Golf Field Hockey, <i>Varsity, JV</i> Soccer, <i>Varsity, JV, Unified</i> Spirit Squad Volleyball, <i>Varsity, JV, Freshmen</i>	Alpine Ski Team Basketball, <i>Varsity, JVUnified</i> Bowling Indoor Track Gymnastics Ice Hockey Spirit Squad Swimming Wrestling, <i>Varsity, JV</i>	Lacrosse, <i>Varsity, JV</i> Softball, <i>Varsity, JV</i> Track & Field, <i>Varsity, JV, Unified</i> Tennis

NCAA Approved Courses

Algebra 1, Advanced	Calculus	Latin 1
Algebra 1	Chemistry	Latin 2
Algebra 1A	Chemistry, Honors	Legal Studies
Algebra 1B	Chemistry & Society	Memoirs & Biography 1/2
Algebra 2	Civics	Physical Science w/Earth Science
Algebra 2, Accelerated	College Composition	Physical Science w/Earth Science, Accel
Algebra 3/Trigonometry	Contemporary Issues	Physics: Conceptual
Anatomy & Physiology, 1/2	Economics	Physics, Honors
Anatomy & Physiology, Honors	English 9	Physics: Principles & Problems
Anthropology	English 9, Accelerated	Poetry
AP Biology	English 9 Read	Pre-Calculus
AP Calculus	English 10	Pre-Calculus, Honors
AP Chemistry	English 10, Accelerated	Psychology
AP English Language and Composition	English 10 Read	Science Fiction
AP English Literature & Composition	French 1	Sociology
AP Environmental Science	French 2	Spanish 1
AP French	French 3	Spanish 2
AP Physics 1	French 4	Spanish 3
AP Physics 2	French 4 , Honors	Spanish 4
AP Psychology	General Science w/Earth Science	Spanish 4 , Honors
AP Spanish	Geometry	U.S. History
AP Statistics	Geometry, Accelerated	U.S. Literature
AP U.S. Government and Politics	Honors Literature	World Literature
AP U.S. History	Honors U.S. Literature	World Studies
AP World History	Human Geography	Writing
Biology, Accelerated	Journalism 1	U.S. History

Student Four-Year Educational Plan

Developing a Four-Year Educational Plan is a worthwhile exercise for all students. Consult the list of minimum graduation requirements found on page 6 and work with your parents, teachers, and counselors to ensure that you meet course prerequisites.

Name: _____ Class of: _____ Counselor: _____

Date: _____ Career Interests: _____

Grade 9		Grade 10		Grade 11		Grade 12	
Course	Credit	Course	Credit	Course	Credit	Course	Credit
Total		Total		Total		Total	

Sample Four-Year Educational Plan

The following is an example of a Four-Year Educational Plan. Students are expected to carry 6 credits each year.

Grade 9		Grade 10		Grade 11		Grade 12	
Course	Credit	Course	Credit	Course	Credit	Course	Credit
US History	1.0	World History	1.0	Economics/Civics	1.0	Physics	1.0
Physical Science	1.0	Biology	1.0	Chemistry	1.0	Pre-Calculus	1.0
Algebra 1	1.0	Geometry	1.0	Algebra 2	1.0	Honors Literature	1.0
English 9	1.0	English 10	1.0	U.S. Literature	1.0	World Language	1.0
World Language	1.0	World Language	1.0	World Language	1.0	Elective(s)	3.0
Fitness/Wellness	1.0	Writing	0.5	Elective(s)	2.0		
Elective(s)	1.0	Physical Education	0.5				
		Elective(s)	1.0				
Total	7.0	Total	7.0	Total	7.0	Total	7.0

Student Activities Spreadsheet

Building an activity spreadsheet is a useful planning tool for evaluating the demands of the school, homework, and extracurricular activities. Please keep in mind that the information provided below is an estimate; it is intended to assist you in choosing the proper balance of classes during the course selection process.

Anticipated Hours of Homework*	Average Hours/Week
AP: 1 hour x 5 nights weekly x # courses	
Honors: .75 hours x 5 nights weekly x # courses	
College Prep: .5 hours x 5 nights weekly x # courses	
Total School Hours:	

Extra-Curricular Activities	Average Hours/Week
Clubs/Interests/Hobbies	
Paid Job	
Community Service	
Sports/Physical Activity	
Music/Theatre Performance	
Other (Driver's Ed, SAT Prep, College Apps etc)	
Total Extra-Curricular Hours:	

Daily Living Activities	Average Hours/Week
Sleep (7 days x 9 Recommended Hours)	
Necessities (Eating, Showering, Chores etc)	
Travel to and from School	
Family Time	
Free Time (Friends, TV, Phone, Internet etc)	
Total Daily Living Hours:	

School Day Hours =	35
Homework Hours =	
Extra-Curricular Hours =	
Daily Living Hours =	
YOUR TOTAL HOURS	
Available Hours/Week	168

* Daily homework amounts are estimates *

Index

Weighted Courses are **bold**

A: Fulfills Art requirement

B: Fulfills Biological Science Requirement

+: Fulfills 4th year Math Experience

P: Fulfills Physical Science Requirement

ICT: Fulfills Info and Comp Tech requirement

EOD: Course meets every other day, all year

- 3-D Design and Sculpture, **A** p. 62
- Acting I, **A** p. 59
- Acting II, **A**, p. 59
- Advanced Writing, p. 29
- Aide Positions, p. 19
- Algebra 1, p. 35
- Algebra 1A, p. 35
- Algebra 1B, p. 35
- Algebra 2, p. 36
- Algebra 2, Accelerated, p. 37
- Algebra 2, Running Start with Quantitative Reasoning, p. 36
- Algebra 3/Trigonometry, Running Start p. 37
- Algebra, Essentials, p.57
- Anatomy & Physiology I/II, **B** + p. 47
- Anatomy & Physiology, Honors, B** + p. 47
- AP Biology, B** + p. 47
- AP Calculus**, p. 38
- AP Chemistry, P** + p. 45
- AP Computer Science, ICT** + p. 20
- AP English Language and Composition**, p. 27
- AP English Literature & Composition**, p. 28
- AP Environmental Science, B** + p. 45
- AP French**, p. 66
- AP Physics I, P** + p. 46
- AP Physics II, P** + p. 46
- AP Psychology**, p. 51
- AP Spanish**, p. 68
- AP Statistics**, p. 38
- AP Studio Art, A** p. 62
- AP U.S. History**, p. 51
- AP U.S. Government and Politics**, p. 51
- AP World History**, p. 49
- Band, Concert, **EOD A** p. 60
- Band, Honors Jazz, A** p. 60
- Band, Jazz, **EOD A** p. 60
- Biology, **B** + p. 43
- Biology, Accelerated, **B** + p. 43
- Calculus, p. 38
- Career Exploration, p. 54
- Career Studies ELO, p.18
- Ceramics, **A** p. 63
- Chemistry, **P** + p. 44
- Chemistry Essentials, **P** + p. 43
- Chemistry, Honors, P** + p. 44
- Chemistry and Society, **P** + p. 44
- Choir, Concert, **EOD A** p. 61
- Choir, Honors A**, p. 61
- Choir, Jazz, **A** p. 61
- Civics, p. 50
- College Composition (Writing), Running Start p. 26
- Community Life Skills, p. 56
- Computer Science Principles, + p. 20
- Computers & Technology, **ICT**, p. 21
- Contemporary Issues, p. 52
- Dance, Movement & Music, **A** p. 40, 61
- Digital Electronics, PLTW, + p. 22
- Digital Photography I/II, p.63
- Directed Study, p. 55
- Drawing 1, **A** p. 63
- Drawing 2, **A** p. 63
- Economics, + p. 50
- English 9, p. 25
- English 9, Accelerated, p. 25
- English 9 Read, p. 25
- English 10, p. 26
- English 10, Accelerated, p. 26
- English 10 Read, p. 25
- Executive Functioning Skills, p. 55
- Fashion & Retail Merchandising, p. 32
- Film Studies, p. 29
- Fitness, **EOD**, p. 40
- Foods & Nutrition 1, p. 32
- Foods & Nutrition 2, p. 32
- French 1, p. 64
- French 2, p. 64
- French 3, p. 65
- French 4, 65
- French 4, Honors**, p. 65
- Fundamentals of English, p. 27
- Fundamentals of Art, **A** p. 62
- General Science with Earth Science, **P** + p. 42
- Geometry, p. 36
- Geometry, Accelerated, p. 36
- Geometry, General, p. 35

Index

Guitar I, **A** p. 60
 Guitar II, **A** p. 60
 Human Geography, p. 52
 Human Relations, p. 32
 ICT Digital Portfolio **ICT**, p. 20
 Improvisational Theatre, **A**, p. 59
 Improvisational Theatre 2, **A**, p. 59
 Individual Math, p. 35
 Interior Decorating, p. 33
 Internship 1, p. 18
 Internship 2, p. 18
 Intro to Engineering Design, PLTW, + p. 23
 Intro to Graphic Arts, **A** p. 20, 62
 Intro to Modern Languages, p. 65
 Journalism 1, p. 29
 Journalism 2, p. 29
 Latin 1, p. 69
 Latin 2, p. 69
 Legal Studies, p. 52
 Life Science, **B** + p. 43
 Life Skills Math, p. 56
 Literacy, p. 56
Literature, Honors, p. 29
 Memoirs & Biography I/II, p. 30
 Music Theory & Composition 1, **A** p. 61
 Outdoor Adventures, p. 41
 Painting, **A** p. 62
 Personal Finance, **A** p. 33
 Personal Fitness, p. 41
 Physical Education, p. 41
 Physical Science with Earth Science, **P** + p. 43
 Physics: Conceptual, **P** + p. 45
 Physics: Principles and Problems, **P** + p. 46
 Poetry, p. 30
 Popular Reading, p. 30
 Pre-Calculus, p. 39
Pre-Calculus, Honors, p. 37
 Principles of Engineering, PLTW, + p. 23
 Psychology, p. 53
 Reading 180A/B, p. 57
 Robotics, + p. 22
 Science Fiction, p.30
 Senior Quest, p. 23,30,38,48,53,64,69
 SKILLS, p. 57
 Social Communications, p. 57
 Sociology, p. 53
 Spanish I, p. 67
 Spanish II, p. 67
 Spanish III, p. 67
 Spanish IV, p. 68
Spanish IV, Honors, p. 68
 Supported Study, p. 55
 Team & Individual Sports, p. 41
 Theatre Studies, p. 59
 U.S. History, p. 49
 U.S. Literature, p. 27
U.S. Literature, Honors, p. 27
 Video Game Design, **ICT** + p.21
 Web Page Design, p. 20
 Wellness, **EOD**, p. 40
 Work Experience Program, p. 57
 Work Study, p. 18
 Work Study II, p. 19
 World Literature, Running Start p. 31
 World Studies, p. 49
 Writing, p. 26

Non-Discrimination

It is the policy of the School Administrative Unit #41 not to discriminate in its education programs, activities, or employment practices on the basis of race, language, sex, age, creed, color, marital status, national origin, or handicapping conditions under the provisions of the Title VI and IX of the 1972 Educational Amendments: Section 504 of the Rehabilitation Act of 1972, and the Education of Handicapped Children's Act of 1976. The coordinator for 504 Activities, Title VI and the Education of Handicapped Children's Act is the Superintendent of Schools, 4 Lund Lane, Hollis, New Hampshire 03049, telephone (603) 465-7714. The coordinator for Title IX is the Hollis/Brookline High School Principal, 24 Cavalier Court, Hollis, New Hampshire 03049, telephone (603) 465-2269. Inquiries may be directed to the coordinators listed herein or to the Regional Office for Civil Rights, 140 Federal Street, Boston, Massachusetts 02110, or the New Hampshire Human Rights Commission, 66 South Spring Street, Concord, New Hampshire 03301. Grievance Procedures which provide for the prompt and equitable resolution of complaints alleging violations to Titles VI and IX, Section 504, and the Education of Handicapped Children's Act of 1976 are available. Grievance Procedures may be obtained at the office of the coordinators listed herein. School Administrative Unit #41 includes the Brookline, Hollis, and Hollis Brookline Cooperative School Districts and the employees in the SAU #41 Office. Approved 9/6/84