

Course Catalog

2009 - 2010

Contents

Mission Statement /Expectations for Student Learning	I
School Directory	II
Academic Policies & Regulations	IV
Post-Graduate Preparation	V
Typical Entrance Requirements At Colleges	VII
Evaluation Procedures	VII
Academic Honors	VII
Course Selection & Registration	VIII
Study Responsibilities of Students	X
Academic Help	XI
Worksheet	XIII
English	1
Social Studies	2
World Languages	3
Mathematics	6
Science	8
Naugatuck Valley College Program	11
CWE	12
Business and Finance Technology	12
Family & Consumer Sciences	13
Technology Education	14
Art	16
Music	17
Theatre Arts	18
Health	19
Physical Education	20
Special Education Programs	21
New Proposed Courses	22
Course Offerings Index	23

Pomperaug Regional High School

234 Judd Road
Southbury, Connecticut 06488-1915
203-262-3200
FAX 203-262-6806

Pomperaug Regional High School Mission Statement

The mission of Pomperaug Regional High School, a caring community committed to excellence, is to educate each student to become a productive, responsible, enlightened citizen and a creative lifelong learner through high quality, dynamic, innovative learning experiences in collaboration with the Region 15 community.

Expectations for Student Learning

Application of Technology – The student demonstrates an ability to use technology resources productively.

Citizenship – The student demonstrates the responsibilities of good citizenship.

Communication Skills – The student will be able to communicate proficiently and fluently through a variety of forms.

Creativity – The student will demonstrate the ability to think and respond creatively.

Critical Thinking – The student will demonstrate the ability to think critically.

Physical Wellbeing – The student demonstrates an understanding of physical wellbeing.

Problem Solving – The student reasons effectively to make decisions and solve problems.

Service to Others – The student has the opportunity to service the community.

Administration

Principal Mrs. Lorrie Rodrigue
Assistant Principals: Mr. Michael Orefice
Mrs. Catherine Szerszen

Guidance Department

Director Mrs. Ellen Spark
Counselors: Mrs. Amy Cloutier
Mrs. Karen Kutzner
Mrs. Diane Miller
Mr. Martin Meyer
Mrs. Carol Reilly
Mrs. Suzanne Ullram

Directors and Division Chairpeople

English/Social Studies Mrs. Julie Luby
Math, Science Mr. José Martinez
World Languages Dr. Yolande Bosman
Unified Arts Mrs. Catherine Szerszen
Health, Physical Education & Athletics Mr. Joseph Velardi
Music, Art Mrs. Jane Sarjeant
Student Services Mr. Michael Orefice

Introduction

Pomperaug High School offers courses in English, social studies, math and science, in addition to many other elective areas. Each of these major subject areas has distinctive sections designed to meet the needs of different ability and performance levels. However, students are not necessarily placed in the same ability/performance level group for all these courses. Placement in each course may vary depending on the goals of the individual student. Some courses are advanced and have various prerequisites and selection requirements; others are required for graduation.

Students should select courses carefully with their own abilities and objectives in mind. Before entering grade nine, all students and parents should confer with guidance counselors to develop a tentative freshman program. Subsequent yearly programs should be determined in light of a student's ability, achievement, interests and goals.

All students should enjoy a liberal education which will serve as a basis for making more intelligent and informed decisions for those entering the job market following graduation as well as for those who intend to further their education. The variety of course selections affords a variety of opportunities to students.

In selecting courses to study, the student should be aware that the schedule for the year is established on the basis of choices made by the entire student body. A change in program is possible in some cases even after the schedule is established. Frequently, however, a change is not possible, as the change would adversely affect other students. Students, therefore, should not elect courses lightly with the thought that "If it doesn't work, I'll change". The change is not always possible. Students should also be aware that some courses may have to be cancelled due to insufficient enrollment.

ACCREDITATION STATEMENT

Pomperaug High School is accredited by the New England Association of Schools and Colleges, Inc., a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction. Accreditation of an institution by the New England Association indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation. Accreditation by the New England Association is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution. Inquiries regarding the status of an institution's accreditation by the New England Association should be directed to the administrative staff of the school or college. Individuals may also contact the Association.

NOTICE OF NON-DISCRIMINATION

The Pomperaug Regional School District 15 does not discriminate on the basis of race, color, national origin, religious beliefs, handicap, sex, or age, in admission to, access to, treatment in, or employment in its programs and activities.

The Coordinator of the District's efforts to comply with Section 504 of the Rehabilitation act of 1973 and Title VI is Ms. Donna Popowski, Director of Student Services, P.O. Box 395, 286 Whittemore Road, Middlebury, Connecticut 06762, 758-1729. The Coordinator of the District's efforts to comply with Title IX of the Education Amendments of 1972 is Ms. Joyce Niestemski, Pomperaug High School, 234 Judd Road, Southbury, Connecticut 06488, 262-3244.

Any inquiries regarding the application of the District's non-discrimination policy may be referred to the Coordinator or to the Regional Director, U.S. Department of Education, Office for Civil Rights, J.W. McCormack Post Office and Courthouse, Room 222, Boston, Massachusetts 02109-4557.

SCHOOL CHOICE OPTIONS

Parents and students are encouraged to explore other educational opportunities that are offered in the school district locally and regionally. These options include magnet, charter, lighthouse and vocational-technical schools; Open Choice and inter-district programs; and vocational agriculture centers. Contact the Counseling Department for further information on these School Choice options.

ACADEMIC POLICIES & REGULATIONS

POMPERAUG HIGH SCHOOL GRADUATION REQUIREMENTS

A. Academic Requirements

The following courses must be taken and passed by each student as a prerequisite for his/her graduation from Pomperaug High School:

English	4 unit/credits*
Social Studies	3.5 unit/credits**
Mathematics	3 unit/credits***
Science	3 unit/credits****
Arts or Career & Technical Education (CTE)	1 credit+
Health/Quest	.5 unit/credit
Physical Education	1 unit (.25 unit/year)
Electives	7 units/credit

Total credits required for graduation 23 units/credits

*Students who fail a year of English will not be allowed to register for two English courses in one year, unless special permission is given by the English department chair. This does not apply to English electives. Core level English I - only 1 of the credits count toward this requirement.

**3.5 units in social studies must include World History I and II, U.S. History, and a civics course to be offered in the junior and/or senior year.

***This must include one course in algebra topics and one in geometric topics. A course in accounting may be applied to the three year mathematics requirement.

****This includes physical science (or physics and chemistry) and biology. Physical science is considered a freshman course and requires permission of the department chair if taken in subsequent years.

+The arts (theatre, arts, music) or CTE (business, family and consumer sciences, technology education) credit includes courses in the following programs: arts, business, family and consumer sciences, technology education, accounting, or CWE.

B. Basic Skill Requirements:

The Pomperaug High School Graduate:

1. **Is literate** – demonstrates the ability to read and write proficiently when accessing, processing, and communicating knowledge:

a. by demonstrating proficiency (a minimum grade of band three) on the CAPT Reading Across the Disciplines and on the CAPT Writing Across the Disciplines assessment
OR

b. demonstrating acceptable proficiency on the Basic Reading and Writing Skills portfolio.

AND

2. **Is a math problem solver** -shows that he/she can utilize differing sources of information and apply multiple strategies in solving a variety of types of problems:

a. by demonstrating proficiency (a minimum grade of band three) on the CAPT Math assessment

OR

b. by demonstrating proficiency of basic math operation procedures and applications in algebra, geometry, and probability and statistics through successful completion of a CAPT math portfolio in addition to the stated three credits required for graduation.

OR

c. by completing of .5 credits in math in addition to the stated 3 credits.

AND

3. Is a science problem solver - shows that he/she can apply important scientific concepts to realistic problems:

a. by demonstrating proficiency (a minimum grade of band three) on the CAPT Science assessment

OR

b. by demonstrating proficiency of basic science concepts and applications of science concepts in biology, physical science, and Earth Science through successful completion of the CAPT science portfolio in addition to the stated three credits required for graduation.

OR

c. by completing .5 credits in science in addition to the stated three credits.

AND

4. Is technologically competent - can use technology to receive, access, organize, process and transmit information.

ADMINISTRATIVE REGULATIONS

1. Each year, all students are required to enroll in the equivalent of 5 credits per semester including physical education. Freshmen are required to take health. Sophomores are required to take Quest. In special circumstances, the principal may allow exceptions to the five-credit requirement. Examples include: 5th year students, students whose total credits far exceed the number required for graduation or special health circumstances that preclude attending school for a full day.

2. During the scheduling process, and no later than April 1, juniors shall be informed of the extent to which graduation requirements have been fulfilled. A final notification will be given to all seniors no later than January 1 of their graduation year.

NOTIFICATION

A. Of teachers: At the beginning of the school year, the graduation requirement coordinator will provide to teachers (in subject areas with required performance tasks) a list of all seniors who have not met a Basic Skills Requirement in their areas. Teachers will be notified of CAPT scores of those juniors who opted to retake the required tests upon their receipt at the school.

B. Of students: The graduation requirement coordinator will write to juniors who do not meet the CAPT goal and the parents of said juniors to remind them of the Basic Skills Requirements for graduation by April 1. At the beginning of the school year, and again by January 1 of the graduation year, each senior shall be notified by his/her guidance counselor of his/her status relative to meeting the basic skills standards for graduation.

C. Of parents: The graduation requirement coordinator will provide final notice in writing to the parents of seniors who have not met the Basic Skills Requirement in any area by January 1 of their scheduled graduation year and thus must pass one or more of the district performance tasks.

D. At least once each year, students will assess with their guidance counselor their progress toward meeting Basic Skills Requirements.

APPEALS

Students who are unable to demonstrate proficiency as defined in Basic Skills Requirements (**Part B, Basic Skills Requirements**) may appeal to the principal within ten (10 days of receiving their score. The principal will then determine if the student is eligible to repeat the Basic Skill Requirement.

EARLY GRADUATION

There is a procedure for students considering graduating before they have spent four years at P.H.S. Early graduation is not recommended for most students. If early graduation is being contemplated, the student should discuss this option with a counselor by April of the sophomore year. A student graduating early must still complete all requirements for graduation as described in this catalog.



SUMMER SCHOOL CREDIT

See your counselor.

PROMOTION POLICY

Students are promoted from one grade level to another based on the number of credits they earn each year. To become a sophomore a student must earn a minimum of 5.5 credits. Eleven credits are needed to become a junior and seventeen to enter the senior year. Students who fail to receive enough credits to be promoted will remain in the same grade level for the next year. This does not necessarily mean a student will be unable to graduate in four years. By attending summer school and/or taking extra courses the following year, a student may be able to earn enough credits to rejoin his/her class.

POST-GRADUATE PREPARATION

CAREER EXPLORATION

There is a Career Center at Pomperaug High School. The staff in the Career Center will help students explore careers, take interest inventories and gain information on all types of post-high school training and education. The range of information from short term on-the-job training programs to four

year programs at the most competitive universities is available. The Center has many career publications and reference materials and a computerized data bank.

The traditional "Career Day" has been replaced with a "Career Speaker's Program" which lasts for the entire school year. Different career clusters (as designated by the State of CT) are assigned to each month. We invite members of the community, parents, and former students to come to the school to speak about their careers. During the 40 minute presentation, topics covered range from the career path that was taken, education and training needed, wages, as well as other pertinent information and personal stories. The speakers invariably encourage our students to stay in school, work hard, and improve their communication and math skills. The presentation is video taped and then shown on our cable access television station.

EMPLOYMENT PREPARATION

Students should elect a number of courses that will improve employment opportunities upon graduation. Students interested in specialized business skills should study the sequence of courses as outlined in the Business and Finance Technology section of this booklet. Students interested in a strong program in home economics and childcare may take a number of courses in that field. Students planning on entering industry may select a program strong in technology education and math.

COLLEGE PREPARATION

The following students should plan to take a college preparatory course through high school:

- Students who plan to take a four-year college program leading to a bachelor's degree, regardless of the field of specialization: liberal arts, teacher education, engineering, business administration, agriculture, nursing.
- Students who plan to enter a two-year technical institute, or a pre-liberal arts program in a junior or community college.
- Students who are as yet undecided as to their future educational and vocational plans, but who would unquestionably benefit from college preparatory curriculum.

A large number of college catalogs are available in the Career Center. These should be checked and referred to frequently as early as the freshman year to determine the types of colleges and schools available and their specific entrance requirements. Colleges are vitally concerned with the overall quality of your high school record. It should be borne in mind that the more competitive and selective the college, the stronger your academic record must be in terms of both quantity and quality. The quality of your overall scholastic record is reflected in your class rank.

It is vital that students confer with their counselors regarding college entry requirements, particularly those related to areas of specialization.

RECOMMENDATIONS:

- There is no substitute for strong English skills, with particular emphasis on writing skills.
- An increasing number of colleges are now requiring or recommending a fourth year of preparatory mathematics.
- Regarding foreign language study: Colleges do not recognize one year of study of language.

Colleges prefer that a language be carried through the most advanced course offered by the high school.

Colleges prefer that you take three or four years in one language as opposed to two years of two languages. (This may enable you to exempt the college's graduation requirement for world languages)

Check catalogs carefully for each school's world languages requirements.

- If you are planning on entering a competitive four-year college it is important to take as much college preparatory science as possible, including Biology, Chemistry & Physics
- If you are considering a technical career that requires a college degree, it is recommended that in addition to a strong academic program, you explore some technology courses while in high school

RECOMMENDED COURSE OF STUDY FOR COLLEGE-BOUND STUDENTS

If one has the goal to continue education beyond high school, then one must pursue a more rigorous course of study. Following are recommendations to college-bound students. The selection will provide a thorough and adequate preparation for college. The student must select courses of appropriate level of difficulty.

COURSE	YEARS OF STUDY
English	4
Social Studies	3-4
Math	3-5**
Science	4*
World Languages (through French or Spanish)	3-5***
CTE/Art/Music	1
Computer Applications	1

*A fourth year of science and/or social studies is recommended in preparation for certain post-high school education.

**Three of these math courses must be taken in grades 9-12. Passing eighth grade algebra with a grade of at least C will count for one of the four years of math. However, eighth grade math will not result in credit toward high school graduation.

***Passing French IA and IB or Spanish IA and IB in middle-

school with a grade of at least C will count as one year towards the accumulation of years in language. However, middle-school world languages will not result in credit toward high school graduation.

TYPICAL ENTRANCE REQUIREMENTS AT COLLEGES

LIBERAL ARTS

HIGHLY COMPETITIVE COLLEGE

English 4
History 3-4
Mathematics 4
Science (lab) 3-4
Lang. 3-4

TYPICAL LIBERAL ARTS COLLEGE

English 4
History 3-4
Mathematics 3-4
Science (lab) 2-3
World Lang. 2-3

2-YEAR TECHNICAL INSTITUTES & COLLEGES

English 4
History 3
Mathematics 3
Science 2

The more college preparatory mathematics and science, the better.

UNIVERSITY OF CONNECTICUT

ARTS AND SCIENCES*

(Minimum Requirement)

English 4
Social Studies 2
Mathematics 3
Science (lab) 2
**World Languages 2
Electives (in above areas) 2

*Students who are pursuing a degree in Business Administration or Education must apply to the School of Arts and Sciences.

**Three years will exempt a student from UConn's foreign language requirement.

ENGINEERING

English 4
Social Studies 3
Mathematics including calculus . 4-5
Science (lab) 3-4
(including biology, physics & chemistry)
World Languages 2-3
Computer Design or other technology electives
Computer Science
Electives

NURSING

English 4
History 3
Mathematics 3
Science (lab) including: 3
(Chemistry, Biology, and Physics)
World Languages 2

EVALUATION PROCEDURES

MARKING SYSTEM

A letter marking system is used in the high school.

MARK	NUMERICAL EQUIVALENT	PERFORMANCE
-------------	---------------------------------	--------------------

A+	(4.5)	95-100 Excellent
A	(4.0)	90-94
B+	(3.5)	85-89 Above Average
B	(3.0)	80-84
C+	(2.5)	75-79 Average
C	(2.0)	70-74
D	(1.0)	65-69 Below Average
F+	(0)	*50-64 Failing
F	(0)	below 50
I	(0)	Incomplete 0.00
WF	(0)	Withdraw/Fail
AUD		Audit
P+		Pass Excellent
P		Pass
M		Medical Excuse

*Summer School eligibility

PROGRESS REPORTS

Progress Reports are issued midway through each academic quarter.

GRADE WEIGHTING PROCESS

At the end of the junior year a student's weighted and unweighted GPA are calculated for the purposes of college admissions only. The weighted average will be determined in the following manner. A cumulative, non-weighted average of all the student's courses will be computed. Those courses that are leveled (English, social studies, world languages, math and science) will have level factors assigned to them: 1=Core, 2=Academic, 3=Honors and 4=AP. A student's **average** level factor will be computed and then added to the non weighted-average of all courses. For instance, a student might have an unweighted average of 3.3, and be taking a mix of academic level and honors level courses with an average level factor of 2.8. The weighted average is then 6.1.

ACADEMIC HONORS

HONOR ROLL REQUIREMENTS

HIGH HONORS - This requires a grade point average (GPA) of 3.7 with a minimum grade of B.

HONORS - This requires a grade point average (GPA) of 3.2 with a minimum grade of C.

GPA – To determine your GPA for **honor roll**, multiply the numeric equivalent for your letter grade in each course, by the Quarter Adjusted Value (QAV). The QAV is used to insure equality. Courses that meet every day are valued at 1.0 QAV. Lab courses have a value of 1.25 QAV and courses that meet every other day are valued at .5 QAV. This will give the course's

"Grade Points". Add all of the grade points and divide by the total of the QAV. This will result in the "Grade Point Average" – GPA

GPA Equals:

$$\frac{\text{the sum of the grade points for each course} \times \text{QAV}}{\text{the sum of the QAV}}$$

Example:

	Letter Grade	Num. Equiv.	QAV	Grade Pts.
Lab Course	A+	= 4.5	X 1.25	= 5.0
P.E.	B+	= 3.5	X .5	= 1.75
English	A	= 4.0	X 1.0	= 4.0
Totals		12	X 2.75	= 10.75
10.75/2.75= 3.91 Honor Roll GPA average				

To be considered for either honor roll, a student must carry the minimum of five (5) credits in **standard** courses. Physical education will be graded but will not count towards one of the five standard courses. Physical education, Health and Quest will count in GPA for Honor Roll purposes. Please note that courses taken for pass/fail are not standard courses. Credit courses that meet after school and internships cannot be used to fulfill the five credit requirement.

Disqualifying factors would include a grade of D or F in any course, including pass/fail, a missing grade for a course listed on the report card or an incomplete.

A preliminary honor roll is posted shortly after report cards are distributed. After a check is done by students and the administration, an official honor roll will be distributed to the press and displayed between the main office and counseling office.

NATIONAL HONOR SOCIETY

Membership is based on Scholarship, Service, Leadership and Character. Scholastic average of 3.7 in major subjects with no grades less than C+ are required for consideration for membership. See the Pomperaug High School's *Student Handbook* for further information.

FRENCH NATIONAL HONOR SOCIETY (Societe Honoraire De Francais)

In order to be inducted into the National French Honor Society, a student must meet the following criteria: an "A" average in French II or III at the end of the first semester, B in all other subjects or C+ in an honors course, continuing studies in French and a willingness to participate in activities.

The formal induction is held in May, after which officers for the following year are elected. A calendar of activities is planned by the officers, including tutoring, service activities, a fund-raiser and visits to French classes.

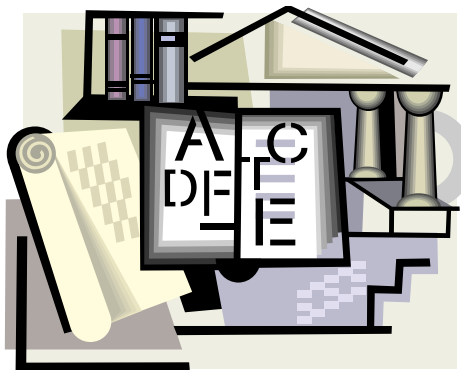
SPANISH NATIONAL HONOR SOCIETY (Sociedad Honoraria Hispanica)

Students who have an "A" average for three consecutive semesters at the high school, and no grade lower than a C+ in any other course in the 3rd semester, are invited to join the Carlos Fuentes Chapter of the Spanish Honor Society. Students must plan to continue the study of Spanish in order to

participate in the Honor Society after meeting the initial criteria.

The formal induction ceremony is held in October. Student members participate in all community service activities, fundraisers and tutoring.

COURSE SELECTION & REGISTRATION



REGISTRATION PROCEDURES

The *Course Catalog* will be distributed early in the second semester. Your guidance counselor and teachers will give the orientation to registration. The course registration form must be completed and returned to the counselor. During the second semester, the student, parents and counselor will review the courses selected. Courses with insufficient enrollment will be cancelled.

COURSE ADDITIONS & WITHDRAWALS

No student may withdraw from a scheduled course without appropriate form signed by the classroom teacher, the department chairperson, the student's parents, and the counselor. These forms are available from the counselors. Withdrawals that occur before the end of the first marking period carry no academic penalty. After that period of time, the student receives a mark of Withdrawal Failure (W/F) which has the same effect as any other failure on class standing. If a withdrawal results in a student carrying less than five subjects plus physical education, the course is replaced by a supervised study hall assignment. Students are advised to plan their schedules to avoid the necessity of requesting course withdrawals. **A student going through the process of dropping or adding a course may not stop going to class and/or start going to another class until the appropriate form is signed by all parties and the counselor personally informs the student that the change may occur.**

COURSE LOAD FOR FRESHMEN

There are eight periods in which to schedule classes and lunch. Following are the courses which all freshmen must take. These courses will fill up five periods. They must choose two more.

English	Science
Social Studies	Health/Phys. Education
Math	

Freshmen who do not fill their schedules are assigned to closed study halls for all of their non-class periods. There are no free periods for freshmen.

Credit courses that meet after school, independent studies, and internships **do not** count as one of the six.

COURSE LOAD FOR SOPHOMORES, JUNIORS AND SENIORS

In order to meet the 23 credits required for graduation, students are encouraged to accumulate 6.25 credits per year.

A sophomore is assigned to a study hall for all non-class time.

The academic performance and citizenship of juniors and seniors is inspected on an individual basis. A student earning low grades, low effort marks or demonstrating poor citizenship may be assigned to study halls for all non-class periods.

ABILITY GROUPINGS

Courses in English, social studies, math, and science are grouped according to ability. The groups are: core, academic, honors and AP. The prime difference between "levels" is that of breadth and scope of coverage and the pace of the class. Where grouping is employed, placement will be determined by the student's record, teacher recommendation and testing data. The grade weighting system assigns more quality points for the more difficult levels. Students are moved from one level to another when evidence shows such a move to be in the student's best interests. Parents who object to a student's placement must follow proper procedures, including speaking with the recommending teacher and signing an override form.

PREREQUISITES AND SEQUENCING

1. English I must be passed before English II is taken. English II must be passed before English III is taken. Only English III and IV can be taken concurrently, and only with approval.
2. Successful completion of English I, II, or III is contingent upon submission of a complete and satisfactory portfolio that meets department standards.
3. Students enrolled in college preparatory math courses must earn a C or better to move to the next course in the sequence. A student who earns less than a C may attend summer school to raise his or her grade to a C, subject to summer school requirements.
4. The following subjects should be taken concurrently:
 - Physical Science and Algebra I
 - Chemistry and Algebra II
 - Physics and Trigonometry
 - Chemistry is recommended as a prerequisite for advanced biology courses.

5. Health and Quest must be taken and passed. Health should be taken in the freshman year, and Quest in grade 10.
6. Selection for AP courses is subject to stringent prerequisites and performance requirements. Please talk to your present teacher for their recommendation and discuss it with your counselor.

ELECTIVE COURSES

Electives are all courses other than those required. Examples of electives include the following: a fourth year of social studies, and math, a fourth year of science, a second credit in the arts or vocational education, a computer science, or world language course. To meet the minimum graduation requirements, a student must take 7 credits in the elective area. Some electives are taught for one semester and assigned a half credit while others are given for a full school year and awarded one credit. Careful planning of electives can result in a broad and balanced high school education.

SPECIAL STUDIES ARRANGEMENT

Special Studies provides the opportunity for Pomperaug High School students to earn credit in courses which they cannot attend because of a schedule conflict. For example, a student who desires to enroll in Drawing and Painting but cannot because it is scheduled at the same time as English IV, would be a candidate for *Special Studies*. In this case the student, with assistance of his/her counselor and the course teacher can arrange to complete all the course work necessary to earn credit for Drawing and Painting. The arrangement **must** duplicate the original course in every way, i.e. time, teacher, and course requirements, it can however occur during another period in the day. For example, the student can work on Drawing and Painting on a regular basis in another art class at another time of the day. Special Studies can be counted towards satisfying the requirements for a student enrolling in 5 courses and Physical Education each semester. Students will receive a letter grade and will be used in honor roll calculation. The rules that govern course withdrawals apply to Special Studies, i.e. a WF **will be issued** if the Special Studies course is not dropped at the appropriate time. All Special Study contracts are subject to approval by the principal.

INDEPENDENT STUDY

Independent Study is a self-directed learning activity. Many educators believe that the central aim of education should be the development of self-directed learners with the emphasis on learning rather than teaching.

Subjects for Independent Study are those which are neither offered in the current Master Schedule nor listed in the *Course Catalog*.

Since Independent Study is an informal approach to learning, students must be highly motivated. They assume the responsibility for their learning, and must possess the initiative, persistence, energy, and curiosity to carry the task to completion.

An important aspect of the Independent Study Program is the one-to-one relationship that develops between the student and the advisor, who serves as a special resource for the project.

All Independent Study contracts are subject to approval by the principal. Independent Study does not count as one of 5 required credits. Grades are P/F and cannot be considered for honor roll calculation. The final grade and credit will be issued at the end of the successful completion of the Independent Study.

INTERNSHIP PROGRAM: PRACTICUM

Students who choose the practical internship will be evaluated on specific skill objectives as defined in the job description for each of the internships. Examples of practical internships include: science lab assistant, graphics production assistant, video production technician, first aide assistant, and academic tutor. A student may earn .25 credits or .50 credits toward graduation according to the number of hours logged in the internship. The practical internship is open to eligible students in grades 10-12. No student may earn more than .50 credits of internship.

REQUIREMENTS FOR ELIGIBILITY:

- The student has successfully completed foundation courses in the area of the internship.
- The internship is official when all parties have signed the internship agreement with specific terms and responsibilities listed.

REQUIREMENTS FOR CREDIT/GRADE:

- The student must demonstrate competency in fulfilling all responsibilities listed in the printed job description for the internship.
- The student must log between 50 and 99 hours to earn .25 credits of internship and 100 or more hours to earn .50 credits of internship. **No student may earn more than .50 credits of internship toward graduation.**
- Students will be graded on a Pass/Fail basis and internship credit will not be included in the computation of class rank.
- Students who earn the maximum internship credit prior to the junior or senior year will be encouraged to enter the Cooperative Work Experience program if additional credit in the skill area is desired.

PASS/FAIL COURSES

A student will receive a "pass" if his average is 65 percent or over, and a "fail" if it is under 65 percent. Such courses cannot be considered for rank-in-class averaging or for honor rolls (unless failing).

Students may elect to take two courses on a pass/fail basis as part of the twenty-three credits required for graduation.

Required courses such as English cannot be taken on a pass/fail basis.

Students in Grades 10-11-12 may elect the pass/fail option.

If a student wishes to take a course on a pass/fail basis, he/she must so indicate by November 1, or for a second semester course by April 1. A contract must be completed prior to approval.

If a student has signed up for a course on a pass/fail basis and wishes to change his status and receive a grade for the

course, he must indicate this before the end of the first marking period, or third marking period for the second semester courses.

AUDIT OPTION

Audit status offers students a no-risk chance to learn for their own growth and pleasure. Although auditors receive no academic grade or quality points, they choose to participate in all course activities. An audited course is not included in the 23 credits required for graduation. For students who adhere to the attendance requirements as stated in the student handbook, the course will be added to his/her transcript as an AUD or audit.

VIRTUAL HIGH SCHOOL

Pomperaug High School is participating in a Virtual High School collaborative which offers over 130 on-line courses. These may be taken to enrich a student's educational experience and to complete a program of studies in courses that are not currently offered at PHS. VHS courses will not count as one of the five courses required for students to be full-time students, and limited spaces for these courses exist. However, students will receive a letter grade that will be used in honor roll calculations. Students who enroll in on-line courses must demonstrate independent learning skills and have an aptitude for technology. **Limited spaces for these courses exist.** Please see your counselor if you are interested.

STUDY RESPONSIBILITIES OF STUDENTS

HOMEWORK

The ability to work successfully without supervision is one of the most important attributes a student can offer employers or college admission officers. Independent study, by means of both short-term and long-term assignments, becomes a valuable preparation for the more rigorous requirements of the curriculum at college.

Homework shall be viewed as an integral part of the school program. The classroom remains as the primary instructional center in the school system. Each student should seek to use the allotted classroom time and available school facilities to the fullest extent possible. Homework is a necessary and effective means of augmenting the classroom learning experience. Homework also provides an opportunity for independent study. The needs of the individual student or group should

determine the type, frequency, and quantity of homework assigned. Homework should not require additional instruction beyond the classroom.

Daily assignments range from 20 to 50 minutes per academic subject, approximately one to three hours per night.

- Reading assignments
- Reviewing reading assignments
- Taking notes on reading assignments
- Reading class notes
- Reviewing and rewriting class notes
- Writing assignments
- Rewriting assignments after initial teacher correction
- Problem sets
- Projects
- Studying for exams
- Vocabulary improvement
- Extra reading and reading for pleasure
- Worksheets

NOTEBOOKS

Study skills are stressed at Pomperaug Regional High School. Each student is required to have a notebook for each class. This requirement can be met by having a separate notebook for each class or a section of a looseleaf notebook for each class. If the looseleaf method is chosen, the student must also have a pocket folder into which the notes for a class can be put and turned in to the teacher. The student must be able to turn in notes to one teacher and keep notes for all other classes.

TECHNOLOGY INTEGRATION

Pomperaug Regional High School believes strongly in the integration of computer and other related electronic applications into all levels of the academic program.

Each of the departments urges and in some cases requires students to use a variety of technology applications. English and social studies will use wordprocessing, spreadsheet and graphics applications. World language will combine computer applications with interactive video. Math uses demonstration software for geometry and relies heavily on the use of graphing calculators for all students at all levels. Science integrates the use of probeware, laser disc programs and Accu-Weather to help students examine natural phenomena. Physical education is exploring the use of computers to assess fitness data on all students. Students have access to computers in the media center, including an electronic card catalog, subscription services on CD-ROM, on-line services, and applications for project development.

Certain electives require students to use a variety of technology equipment and software applications. Descriptions of the use of CADKEY, accounting, graphics and television hardware and software are discussed in the course descriptions in the sections labeled Technology Education and Business and Finance Technology. In the next few years, the opportunities and expectations for the use of technology as a tool for learning will expand well beyond current access. With the establishment of a wiring infrastructure throughout the school, the opportunities to network electronic communications from every "nook and cranny" of the building will become a reality.

ACADEMIC HELP

AFTER-SCHOOL HELP

Teachers are available for extra help after school almost every day. Students who are having subject matter difficulty or who have work to make up after an absence are urged to take advantage of the opportunity. It is the responsibility of the student to make an appointment with his/her teacher to secure additional help.

TUTORING

Students wishing to receive tutorial assistance in any subject must see their counselor. Two forms of assistance are available. Professional tutors through the Student Improvement Program (SIP) are available all periods every day. A second form is the peer tutoring program which is organized by the National Honor Society.

S.I.P.

Located across from the school cafeteria, SIP tutors are available throughout the day (both by special arrangement and/or drop-in) to support students with academics including projects and assignments, content-related questions, and study skills.

National Honor Society

Students who would like to arrange for one-on-one peer tutoring should speak to their counselor to make arrangements.



NOTES

Course Offerings

ENGLISH

THE PURPOSES OF LANGUAGE ARTS

The Pomperaug High School Language Arts program is designed to foster students' skills and interest in the areas of reading, writing, listening and speaking. These expressive and receptive skills cross genres and require students to have control over their use and understanding of language.

Students will read fiction and non-fiction each year exploring classic as well as modern literature. They will practice the skills of literary analysis and reading for information while furthering their appreciation of literature and well-written text.

Throughout their four years of English, students will write clearly, effectively and confidently, for a variety of purposes and in many different forms. They will learn to write expository and persuasive essays, poetry, personal and fictional narratives and research reports. To support students in this process, all English teachers meet with students for individual writing conferences. Students set reading and writing goals and then work one-on-one with their teachers to achieve these goals. This individual attention is one of the greatest strengths of our Language Arts program.

To culminate each of the first three years of PHS English, students create reflective Literacy Portfolios which include samples of the student's writing along with the student's analysis of progress made towards personal literacy goals.

ENGLISH I

1 year, 1 credit

In this literature based course students will be introduced to the Pomperaug High School culture and expectations. They will study literary terms, the skills of active reading and the conventions of written language while reading and writing across a variety of genres. Students will read, write and learn about significant influences shaping identity with a focus on the adolescent rite of passage and the hero's journey.

ENGLISH II

1 year, 1 credit
Prerequisite: English I

The literary emphasis of English II is a broad-based study of World Literature and authors. The required works cover a variety of genres including: novel, poetry, drama, short story and film, some of which are presented in English translation. These works range from classical epics to contemporary plays and are intended to encourage students to view the world from varied cultural perspectives. Many of the reading and writing assignments are designed to reflect the literacy skills highlighted on the CAPT. Expository, analytical and research-based writing assignments, such as the Independent Poetry Project, predominate, although some narrative and personal connection pieces are also included.

ENGLISH III

1 year, 1 credit
Prerequisite: English II

In this course students will study American Literature. The teacher will guide students in the study and interpretation of all types of American Literature and will illustrate significant literary trends and how they reflect changes in society. Writing instruction will be in agreement with the K-12 Composition Curriculum. Students will examine how literary themes reflect American culture, study how literature can be defined through a culture, and recognize the significant connection between literature and culture. An examination of the stylistic devices particular to individual writers will provide the student with a language for literary criticism.

ENGLISH III - AP

1 year, 1 credit
Prerequisites: Recommendation of English II teacher and completion of summer reading task

LANGUAGE AND COMPOSITION

The goal of this course is to develop the students' awareness of language and to sharpen their skills in effective writing and critical reading. Students will develop individual styles adaptable to different occasions for writing in college. Students will hone writing and reading skills for critical analysis of a variety of prose.

HUMANITIES: CREATING AMERICA THROUGH ART AND LITERATURE

Junior level (Option) 1 year, 1 credit

This team-taught interdisciplinary course integrates the study of American literature and art. Emphasis will be placed on the craft of the writer and artist, and students will explore literary and artistic trends and how they reflect changes in society. Through the eyes and voices of significant artists and writers in history, students will interpret themes in American culture using skills in critical thinking, problem-solving, creativity and communication. Students will apply their understandings through a variety of writing assignments, artwork, and performance-based assessments. Field trips to local galleries and literary sites may be a component of the course.

Note: Students who take this course will have a double block of English and art.

ENGLISH IV

1 year, 1 credit
Prerequisite: English III

Senior English is the study of fiction, non-fiction and film, emphasizing their reflection of values and behavior in society and in individuals. It is based on six essential questions:

- How do I know who I am?
- How do I know what I know?
- What is really important?
- What is a good idea?
- What can we learn from the past?
- What will the future be like?



Students will also participate in Project Success, a job search simulation. Classes are randomly selected and heterogeneously grouped. The course culminates with a final exam.

ENGLISH IV - AP

1 year, 1 credit

Prerequisites: Recommendation of English III teacher and completion of summer reading task

LITERATURE AND COMPOSITION

This course is designed for students who want to earn college level credit while in high school and who have an interest in developing skills in literary criticism. The historical growth of literary genre, the refinement of analytical techniques, and the development of expository writing skills are stressed.

Students are required to complete challenging reading assignments, participate in class discussions, and complete weekly written assignments. Close textual analysis and library research are the major format of the class.

SOCIAL STUDIES

In social studies, students learn about themselves and the world in which they live. The world today has been determined by past events and tomorrow's world will be the result of what we are doing today. Therefore, the knowledge, skills and concepts acquired in the social studies help students understand how they can direct their lives by understanding why things are the way they are. A major emphasis of social studies today is recognition that the world is becoming increasingly interdependent economically, politically and socially. Another characteristic of the social studies program is skill development in decision-making and problem-solving. Students will analyze and form opinions about events and issues, use acquired knowledge and concepts, and hypothesize about new situations. As part of the three and one-half social studies credits required for graduation, students must pass both years of the World History sequence, United States History and minimally a half year course related to civic education. World History I is a prerequisite for World History II. Any student wishing to change a level or take a course in a different grade level must first speak to their counselor. Approval is also needed by the department chairperson.

WORLD HISTORY I

1 year, 1 credit

The course will build on the concepts and skills learned in the middle schools and listed as the K-12 Social Studies Program's main ideas. These major themes are: Civilization, cultural diffusion, and innovation; Human interaction with the environment; Values, beliefs, political ideas, and institutions; Patterns of social and political interaction; and Conflict and cooperation. Within this framework, students will study the evolution of western civilization through the French Revolution. The study of selected cultures from Africa, Asia, and Latin America will parallel developments in western Europe. Using this information to understand respect the many cultures in the world today will be the main emphasis of the course.

WORLD HISTORY II

1 year, 1 credit

Prerequisite: Successful completion of World History I or permission of the department chair



The course will continue the concepts taught in World History I. The evolution of western civilization and selected non-western cultures will continue from the French Revolution until the present day. The last portion of the year will deal with the modern, post-World War II world, with an emphasis on the year's major international problems. Understanding and respecting the many cultures in the world today will be the main emphasis of this course.

UNITED STATES HISTORY

1 year, 1 credit

Prerequisite: Successful completion of World History I and II or permission of the department chair

The course will build on the concepts taught in the required two-year World History sequence. Students will study the United States from our colonial beginnings to the present. Economic, geographic, political and social factors in our history will be covered. The development of what, why, and how the United States has become what we are today will be emphasized. This includes the study of our national beliefs, goals, values and cultural heritage.

UNITED STATES HISTORY - AP

1 year, 1 credit

Prerequisite: Recommendation by current social studies' teacher

This course is designed for students who want to earn college level credit while in high school and who have an interest in developing both college-level history knowledge and skills. The content will be much the same as that in United States History but more emphasis will be placed on analysis, expository writing, and primary source readings. Students will be required to complete such activities at a college pace. This course is open to students who have completed the first two years of the social studies program and who have received the approval of the social studies department chair.

PARTICIPATORY CIVICS

1/2 year, 1/2 credit

This half year course is required by the State of Connecticut. It will discuss the current issues in national and local governments, review the basic framework of American government, and allow opportunity for hands on activities which will prepare students for active participation in their roles as citizens.

SOCIAL STUDIES: Electives

INTRODUCTION TO PSYCHOLOGY I

1/2 year, 1/2 credit

Prerequisite: Permission of the instructor and recommendation of current social studies' teacher if not a senior

This course introduces some of the major principles and concepts of psychology as applicable to today's society. Topics will include states of consciousness, personality development, adolescent psychology, abnormal psychology, theories of counseling and careers in psychology. Students are expected to actively participate in class discussions and do research on chosen topics. An attempt will be made to respond to the issues presented by the class.

PSYCHOLOGY II

1/2 year, 1/2 credit

Prerequisite: Successful completion of Psychology I or permission of the instructor and junior or senior status

This course continues to introduce some of the major principles and concepts of psychology as applicable in today's society. Additional topics will be introduced including personality theory, emotions, motivation, psychological testing, learning, social, cognitive and trait theories, health and psychology and treatment/therapy for psychological problems. Students are expected to actively participate in class discussions and do research on chosen topics. An attempt will be made to respond to the issues presented by the class.

PSYCHOLOGY - AP

1 year, 1 credit

Prerequisite: Permission of the instructor and approval of the department chair.

While similar in content to Psychology I & II, this course includes the additional work to prepare students for the Advanced Placement exam. Entry to this course is subject to approval of the social studies department chairperson. Students with AP United States history experience will be given priority.

GOVERNMENT - AP

1 year, 1 credit

Prerequisite: Recommendation by current social studies' teacher, successful completion of A.P. United States History, and approval of department chair.

While similar in content to the half-year Civics course, this course will prepare students for the two AP Government exams: one in United States government and one in Comparative government. Additional emphasis will be placed on analysis, expository writing, and primary source readings. This course surpasses the state requirement for a 1/2 credit in civic education. This course is open to students who have completed AP United States History and who have the approval of the Social Studies department chairperson.

PRACTICAL LAW

1/2 year, 1/2 credit

This course is an introduction to law and the American legal system, criminal and juvenile justice, and individual rights and liberties. The course will utilize case studies, problems, role playing, clarification strategies, and legal documents to develop law-related skills. The basic materials for this course were developed by the National Street Law Institute of the Georgetown University Law Center. This course meets the state requirements for a 1/2 credit in civic education.

WORLD LANGUAGES

The study of world languages is the link that connects man to a living present and an historical past. The immersion into another culture through language is a tool not only in better understanding oneself but is geared towards cultivating insight and tolerance of differences and commonalities shared with the citizens of our global community. Language and communication significantly shape and bring meaning to the human experience. Through the study of language students can become active participants in our interconnected world. Foreign language acquisition is an essential component of a quality education and at the core of becoming an "educated" individual. The personal enrichment students gain from learning another language or languages helps cultivate individuals who can better appreciate and integrate with our diverse world, as we compete in the 21st century.

Colleges and universities recommend 2-3 years of language study. Highly competitive schools of higher education recommend 3-5 years.

The prerequisite for foreign language courses is the successful completion of the previous courses or recommendation of the instructor, with approval of the Director.

FRENCH I

1 year, 1 credit

Any student attaining a C+ or higher in middle school is not eligible to enroll in level I.

This course is intended for beginners, as well as students who have taken French but have not mastered the basic skills.

Each unit revolves about a theme, such as school, family, preferences and interests, which is fundamental to basic conversation. The behaviors, values and beliefs of the people in the Francophone countries are an integral part of the language experience.

FRENCH II - Academic

1 year, 1 credit

Prerequisite: Successful completion of 7th grade (IA) & 8th grade (IB) language study or French I at high school. A minimum grade of C+ is recommended for success.

This course continues the basic study of French, including the study of elementary grammatical structures and the cultures of the French speaking world. The focus continues to

be on developing proficiency in aural comprehension, speaking, reading and writing.

FRENCH II - Honors

1 year, 1 credit

In an effort to provide a more rigorous academic experience for our French students, honors weight will be granted to qualified level II and III students through differentiated expectations of higher level work.

For honors level eligibility, students must have attained an A average in the previous level course, demonstrated a strong work ethic and exhibited a strong oral competency. In addition to complying with the objectives of the regular curriculum, honors level students will be expected to complete the following:

- Oral recording (minimum of one) in the language lab per chapter
- Supplemental readings and writing assignments in the target language
- Alternative assessments as assigned by the teacher.

FRENCH III - Academic

1 year, 1 credit

This course continues to develop the language skills of listening, speaking, reading and writing in the context of everyday life in the French-speaking world. Video and auditory materials enhance the basic text. Oral proficiency is developed through oral presentations and the use of the target language. Previously learned structures are reviewed and reinforced; new grammatical concepts and tenses are presented in context.

FRENCH III - Honors

1 year, 1 credit

In an effort to provide a more rigorous academic experience for our French students, honors weight will be granted to qualified level II and III students through differentiated expectations of higher level work.

For honors level eligibility, students must have attained an A average in the previous level course, demonstrated a strong work ethic and exhibited a strong oral competency. In addition to complying with the objectives of the regular curriculum, honors level students will be expected to complete the following:

- Oral recording (minimum of one) in the language lab per chapter
- Supplemental readings and writing assignments in the target language
- Alternative assessments as assigned by the teacher.

FRENCH IV - Honors

1 year, 1 credit

This course focuses on developing and refining oral and written proficiency. A variety of contemporary and historical short stories, articles, music and poetry serve as a vehicle to examine literary, artistic and political figures of the francophone

world. Thinking and reacting in the French language are an important objective of the course. Emphasis is on verbal expression, although much work is done in advanced grammar and writing.

FRENCH V - AP

1 year, 1 credit

(This course also fulfills the requirements of the University of Connecticut cooperative program for 6 credits).

Prerequisite: Teacher recommendation

This course prepares the student to take the Advanced Placement French language examination in May.

The main objective of the program is to develop students' communication skills in French. This course is comparable to a third-year university course with emphasis on grammar study, conversation, and composition. Students may receive college credit for this program.

SPANISH I

1 year, 1 credit

Any student attaining a C+ or higher in middle school is not eligible to enroll in level I

This course is intended for beginners, as well as students who have taken Spanish but have not mastered the basic skills.

This level presents and practices the language typical of the novice level; greetings, expressions of courtesy, numbers, dates, descriptions, likes and dislikes and narration in the present and past. The cultural aspect will be integrated in every unit with the intention of bringing the language to life. Students are expected to perform in a written and oral manner. Listening exercises will also be introduced. Special projects and assignments are part of the curriculum.

SPANISH II - Academic

1 year, 1 credit

Prerequisite: Successful completion of 7th grade and 8th grade Spanish I. A minimum grade of C+ is recommended for success.

This course concentrates on the development of oral and written proficiency through presentations and compositions. A variety of topics from every day life link the vast vocabulary and grammar to the Spanish speaking world. Grammar will include a review and use of Present, Present Progressive, Preterit and further study of grammar will include Imperfect, Present Perfect, Future and Conditional. A variety of customs and traditions of the Spanish world are presented with the intention to sensitize the student to cultural differences.



SPANISH II - Honors

1 year, 1 credit

Honors level is the same as Spanish II academic but includes authentic readings beyond the textbook, such as *El Cid* and children's fairytales. Vocabulary and grammar is more extensive; more rigorous, performance based activities are incorporated to maximize the opportunity for the varied application of language.

Eligibility:

- middle school or high school teacher recommendation based on having attained a final grade of 90% or higher
- oral and writing performance on the 8th grade Performance Based Learning Assessments
- maturity, work ethic, and attendance

SPANISH III - Academic

1 year, 1 credit

Recommendation: A minimum grade of C in Level II is recommended for success.

Spanish III continues the book series with *Buen Viaje III*. The book and course are based upon students' knowledge of the following tenses; the Present, Present Progressive, Pret-erit, Imperfect, Present Perfect, Future and Conditional. *Buen Viaje III* builds and stresses vocabulary and verb usage using Cultural, Conversational and Literary Readings. Students also learn the formation and the use of the Subjunctive. Oral Proficiency is developed through oral presentations and consistent use of the target language. Students are expected to answer and speak in complete Spanish sentences. There are four major writings throughout the year.

SPANISH III - Honors

1 year, 1 credit

Prerequisite: Spanish II Honors students must achieve a minimum final grade of B+ for continued study in the honors sequence.

Spanish III Honors is a continuation of Sp II Honors. It may include the use of readers and an adapted novel. A student in academic Spanish II with a final average of A+ may be eligible for entry into the Spanish III Honors level with teacher recommendation.

SPANISH IV

1 year, 1 credit

This course reviews the grammar topics and verb tenses already learned in previous courses. It also continues the study of the subjunctive mood. In addition, more complex readings are introduced along with more extensive writings and analysis of literary works. The class is conducted entirely in Spanish and all students are expected to communicate in the target language.

SPANISH IV - Honors

1 year, 1 credit

Entry is contingent on teacher recommendation. Summer work is required.

This honors course deals with the development of more complex reading, writing, listening and speaking skills. Students are introduced to literary works of famous Spanish writers. The vocabulary and grammar will be reviewed and enhanced through the reading and analysis of literature. The reading of a novel will be part of the curriculum.

This course begins to prepare the students for the Advanced Placement Spanish Language exam.

SPANISH V - Honors

1 year, 1 credit

Prerequisite: Teacher recommendation

This course continues the grammar study very intensively. Famous Spanish writers are introduced, and their works are analyzed. Oral and written skills are expected to reach a high level of proficiency status by the end of the year. Special projects and assignments are part of the curriculum. Part of the curriculum includes reading several novels.

Early College Experience (ECE)

Students who receive a minimum grade of 70% and satisfy the written requirements for the University of Connecticut curriculum course equivalency are eligible for 6 UConn college credits. Some universities across the nation may not accept these credits.

SPANISH V - AP

1 year, 1 credit

(This course also fulfills the requirements of the University of Connecticut cooperative program for 6 credits).

This course continues to prepare the students to take the Advanced Placement Spanish Language examination in May. The main objective of the program is to develop the students communication skills in Spanish. This course is comparable to a third year university course with emphasis on conversation and composition. The reading of a novel will be part of the curriculum. Students who take this course may receive college credit.

MATHEMATICS

MATH CORE GRADUATION REQUIREMENTS

All students must pass three mathematics courses which must include an algebra course (Algebra I or Algebra I, Sequence I) and a geometry course (Geometry or Applied Geometry).

ACCOUNTING

See Business and Finance Technology section (page 12) for descriptions.

Students must have earned 1 credit in algebra and 1 credit in geometry in order to receive math credit for accounting.

ALGEBRA I Sequence I - Part 1 - Core

1/2 year, 1/2 credit

Prerequisite: Recommendation from eighth grade teacher

Algebra I Sequence I - Part 1 is designed to aid students in making the transition from middle school mathematics to algebra. This course includes connections to algebra such as variables, exponents and powers, order of operations, problem solving, operations with signed numbers, ratios and percents, probability, properties of algebra, and solving equations and inequalities. An effort is made to review and present new topics focusing on skills and in depth understanding of the concepts and problem solving needed to be successful in algebra.

ALGEBRA I Sequence I - Part 2 - Core

1/2 year, 1/2 credit

Prerequisite: Grade of C or better in Algebra I Sequence 1 - Part 1

Algebra I Sequence I - Part II reviews and expands on the concepts taught in Algebra I Sequence I - Part I. Topics will include: solving equations and inequalities, the coordinate plane and graphing linear equations, scatterplots, and writing linear equations. CAPT preparation and review is integrated into regular classroom instruction. An effort is made to review and present new topics focusing on skills and in depth understanding of the concepts and problem solving needed to be successful in algebra.

ALGEBRA I SEQUENCE II

1 year, 1 credit

Prerequisite: Grade of C or better in Algebra I Seq. I

This course is designed to cover many of the topics that are taught in the second semester of Algebra I. Units of study will include analyzing linear functions, systems of equations, inequalities, polynomials, and radicals.

ALGEBRA I - Academic

1 year, 1 credit

Prerequisite: Teacher recommendation and minimum grade of C in 8th grade math.

The field of real numbers is developed with emphasis given to the set of rational numbers. Other topics include linear equations, data analysis, functions and operations on polynomials and systems of equations as well as applications of these topics to problem solving.

ALGEBRA I - HONORS

1 year, 1 credit

Prerequisite: Final grade of "A-" or better in Grade 8 Math or a grade of C or C+ in eighth grade Algebra I

This course introduces the concept of functions early on. Properties of real numbers and properties of equality will be stressed. Additional topics include; literal equations, application of ratio and percent, graphing linear functions, slope and rate of change, solving systems of equations, graphing inequalities and systems of inequalities, lines of best fit, operations with polynomials, laws of exponents, quadratic and exponential functions, and an introduction to probability and statistics. Students will become proficient with the use of graphing calculators.

INTRODUCTION TO ALGEBRA II

1 year, 1 credit

Prerequisite: A passing grade in Algebra I and a passing grade in a geometry class or passing Algebra 1 Sequence 1, Algebra 1 Sequence 2, and a Geometry class.

Introduction to Algebra II reviews and expands on the concepts taught in Algebra I, including linear functions and inequalities, systems of equations, data analysis, quadratics, and others. An effort is made to present these topics from a "hands-on" perspective with frequent use of graphing calculators and an emphasis on real world problems and performance activities. Certain topics are covered in less detail than in the conventional Algebra II course. This course is not intended for the student who will pursue a college major or career in a math-intensive area. A graphing calculator is required for this course.

ALGEBRA II - Academic

1 year, 1 credit

Prerequisite: A minimum grade of C in Algebra I or Algebra I Sequence II and a minimum grade of C in Academic Geometry.

Algebra II expands upon skills introduced in Algebra I. This course includes a serious study of functions and graphs—linear, quadratic, polynomial, exponential, logarithmic. A concerted effort is made to review topics and present new topics by applying them in mathematical modeling problems and performance activities. Graphing calculators are used frequently in this effort. This course, as a result, is appropriate for a student planning to pursue a college major or a career in an area dependent on mathematics. A graphing calculator is required for this course.

ALGEBRA II - Honors

1 year, 1 credit

Prerequisite: A minimum grade of C in Honors Geometry

This course involves an intense study of important algebraic topics and techniques with special emphasis on functions, graphs and their properties. Linear, quadratic, higher degree polynomial, rational, algebraic, exponential and logarithmic functions receive serious study as do matrices and determinants. Concepts are introduced and studied through real world problems with frequent use of mathematical models. Graphing calculators are integrated into most units of study. The pace of study and the depth to which topics are covered require students to have a good understanding of Algebra I topics as a prerequisite for success in this class. A graphing calculator is required for this course.

APPLIED GEOMETRY – Part 1 - Core

½ year, ½ credit

Prerequisite:

Fall Semester

Students develop the language of plane geometry and then study the properties of angles, triangles, quadrilaterals, polygons, polyhedrons, and parallel lines. Transformations are studied and then applied in a project that requires the students to create unique geometric designs that reflect specific transformations and symmetries. The students also explore geometric properties with the Geometer's Sketchpad interactive software.

APPLIED GEOMETRY – Part 2 - Core

½ year, ½ credit

Prerequisite:

Spring Semester

The emphasis of this semester course is on perimeter, area, volume and the Pythagorean Theorem. Formulas are developed and then applied so there is an emphasis on computation and algebra. The properties of circles and congruent and similar triangles are also investigated. CAPT preparation and review is integrated into regular classroom instruction.

CALCULUS - Honors

1 year, 1 credit

Prerequisite: A minimum grade of "C" in Academic Precalculus or a passing grade in Honors Precalculus. A good working knowledge of the graphing calculator is required.

A strong understanding of algebra, geometry, functional analysis, and trigonometry is necessary for the study of calculus. The honors level course is designed to provide students with a semester of exposure to college level calculus. The focus of the course is the study of functions, limits, derivatives and antiderivatives. There is an emphasis on applications to business, physics, and medicine. A graphing calculator is required for this course.

CALCULUS - AP

1 year, 1 credit

Prerequisite: A minimum grade of "B" in Honors Precalculus or teacher recommendation. A good working knowledge of the following background areas is expected: algebra, geometry, functional analysis, trigonometry and use of the graphing calculators.

AP is a high level accelerated course designed to give students about 1.5 semesters of exposure to college level calculus. The course is designed to prepare the students for the AB level AP Calculus exam. The subject matter includes work in analytic geometry, limits, derivatives, integrals and functions. A graphing calculator is required for this course.

CONSUMER MATHEMATICS

1 year, 1 credit

Prerequisite: Successful completion of Algebra and a Geometry course.

This course is designed to show students how to use mathematics in their everyday lives as consumers. Students have the opportunity to become proficient, confident problem solvers and informed consumers. Consumer Mathematics covers a number of topics including: informed money management, consumer decisions, estimation, personal bank accounts, loans, credit, taxes, insurance, etc.

GENERAL MATHEMATICS

1 year, 1 credit

General Mathematics is a course for ninth grade students who are not enrolled in a college preparatory program. This course focuses on the basic arithmetic content and related skills which include the objectives of the Connecticut Ninth Grade Proficiency Test.

GEOMETRY - Academic

1 year, 1 credit

Prerequisite: A minimum grade of C in Algebra I.

Inquiring based learning and inductive reasoning is used to discover the properties and relationship of and between geometric shapes. Deductive reasoning is used to demonstrate and prove the same properties.

GEOMETRY - Honors

1 year, 1 credit

Prerequisite: Final grade of "A" or better in Algebra 1

In this course, students learn the concepts of geometry through inductive and deductive reasoning. Topics include parallel lines, triangle congruence and similarity, the Pythagorean Theorem, quadrilaterals, polygons, area, volume, transformations and circles. There is an emphasis on proofs and constructions.



PRECALCULUS - Academic

1 year, 1 credit

Prerequisite: A minimum grade of "C" in Algebra II. A good working knowledge of a graphing calculator is required. Note: Introduction to Algebra is NOT a prerequisite for this course.

Trigonometry, and functions are the two major aspects of mathematics covered in this course. The study of vectors is incorporated to support students taking physics. Elementary functions such as polynomial, exponential, logarithmic and circular are emphasized. A graphing calculator is required for this course.

PRECALCULUS - Honors

1 year, 1 credit

Prerequisite: A minimum grade of "C" in Algebra II-Honors. A good working knowledge of a graphing calculator is required.

The major units of study in Honors Precalculus are trigonometry and its applications, sequences and series, functions and conic sections. Other topics include vectors, limits and polar coordinates. A graphing calculator is required for this course.

PROBABILITY AND STATISTICS -

Part I - Academic

½ year, ½ credit

Prerequisite: Successful completion of Algebra II or Introduction to Algebra II

This course will be an introduction to the concepts of probability and statistics. The students will study statistics topics for one quarter and probability for the second quarter.

Topics include frequency distributions, measures of central tendency, normal distributions, multiplication and addition rule, and normal and binomial distributions. Probability topics include: conditional probability, geometric models, and Bayes' Rule. A graphing calculator is required for this course.

PROBABILITY AND STATISTICS -

Part II - Academic

½ year, ½ credit

Prerequisite: B or better in "Probability and Statistics – Part I" or permission of instructor.

This course is a continuation of Probability and Statistics – Part 1 and will build off of the topics previously learned. This course will be taught at a more rigorous level and students will be asked to learn topics more closely linked to a college level course. Topics include linear and non-linear regressions, experimental design, and some hypothesis testing. A graphing calculator is required.

STATISTICS - AP

Prerequisite: Completion of Precalculus with a grade of C or better.

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns, and statistical inference.

Students who enroll in this course will be expected to take the AP Exam in statistics. Students who successfully complete this examination may receive college credit and/or advance standing for a one semester, introductory statistics course. A graphing calculator is required for this course.

SCIENCE



The years of science must reflect exposure to the core science offerings consisting of: Biology, Chemistry, and Physics. Physical Science, both core and academic, meet the chemistry and physics core requirements. All introductory Biology courses (Honors, Academic, and Core) meet the above described Biology core exposure. In order to meet minimal core requirements, students enrolled in the **Honors sequence must take one year each of Biology, Chemistry and Physics.** (If you have any questions, consult your guidance counselor and/or your science teacher.) Level changes at Pomperaug High School are based on teacher recommendation.

THE HIGH HONORS PROGRAM IN SCIENCE

The purpose of the High Honors Program is to stimulate and reward students who commit themselves to four years of effort and achievement in a prescribed sequence of science courses. Each student's commitment shall be recognized by appropriate transcript notations, certificates of accomplishment, and honors weighting. The sequence will also prepare the participant to take all of the Advanced Placement Science Exams offered by the College Entrance Examination Board. The potential of earning college credit for three years of science is an additional motivating force for participants.

REQUIREMENTS FOR THE HIGH HONORS SEQUENCE IN SCIENCE

Science high honors students are required to complete the following course work:

YEAR	COURSE TITLE
Freshman	Honors Biology
Sophomore	Honors Chemistry
Junior	Honors Physics and AP Chemistry
Senior	AP Physics and AP Biology

In addition to the program of study listed above, the student will be required to maintain an 80 or better average in order to qualify for the high honors sequence designation.

Although the courses listed previously are included in the Honors Program, they are not the exclusive domain of honors participants, i.e., students who have the appropriate prerequisites may sample these and other science courses, but they will not receive high honors sequence recognition.

BIOLOGY - Core

1 year, lab science - 1.25 credits

This course is designed to explore the basic principles of biology in areas such as biochemistry, cytology, genetics, zoology, and human biology. This course will also offer exposure to current research and developments in the field of biology. Preparation for the CAPT is an important part of this course.

BIOLOGY - Academic

1 year, lab science - 1.25 credits

Prerequisite: Successful completion of Physical Science

A course offered to college-bound students designed to explore in-depth principles of biology in areas such as biochemistry, cytology, genetics, zoology, and human anatomy. The course will also offer exposure to current research and developments in the field of biology. Preparation for the CAPT is an important part of this course.

BIOLOGY - Honors

1 year, lab science - 1.25 credits

Prerequisite: Final grade of A-, A or A+ in Algebra (Middle School), or grade of A or better in Physical Science (High School).

A course offered to college-bound students designed to explore in-depth principles of biology in areas such as biochemistry, cytology, genetics, zoology, and human anatomy. The course will also offer exposure to current research and developments in the field of biology. Preparation for the CAPT is an important part of this course, therefore, any 9th Grade student moving to Biology - Academic from Biology - Honors must take Physical Science in 10th grade.

BIOLOGY - AP

1 year, lab science - 1.25 credits

Prerequisite: Successful completion of one year of Biology, one year of Chemistry and teacher recommendation.

The purpose of AP Biology is to prepare qualified secondary school students to meet the objectives of a college level biology course for biology majors. Topics include cellular and molecular biology, enzymes, photosynthesis, respiration, genetics, botany, physiology, ecology, evolutionary biology, and zoology.

Students who wish to receive college credits for Biology may qualify by taking the AP Biology examination in May. Qualifying participants may also receive college credit for this course via the University of Connecticut's Early College Experience (ECE) Program. Requirements, applications, and other descriptive material will be furnished by the counseling office in the spring.

A summer assignment is a required part of this course.

CHEMISTRY - Academic

1 year, lab science - 1.25 credits

Prerequisite: A minimum grade of C or better in Algebra I and successful completion of Physical Science. Corequisite: Algebra II highly recommended.

Chemistry is a course offered to college-bound students in their junior year. The course is designed to cover topics such as atomic and molecular structure, the periodic table, formula-

writing and chemical equation-writing, physical and chemical changes, mass and volume relationships, acids and bases, solutions, and gases. There is a strong focus on problem solving, laboratory work and writing of laboratory reports.

CHEMISTRY - Honors

1 year, lab science - 1.25 credits

Prerequisite: A minimum grade of "B" or better in Algebra I and a minimum grade of "B" in Honors Biology, or permission of the instructor.

Corequisite: Algebra II or permission of the instructor

This course is offered to students who wish to continue the High Honors Sequence in science. It involves the study of: atomic structure and the periodic table, bonding, properties and changes in matter, the mole and molar relationships in chemical reactions, the characteristics of solids, liquids and gases, solution chemistry, acids and bases, reaction rates equilibrium, organic chemistry and nuclear chemistry. Emphasis is placed on problem solving, laboratory work, and writing of lab reports.

CHEMISTRY - AP

1 year, lab science - 1.25 credits

Prerequisite: A minimum grade of "B" or better in first year of Chemistry

Corequisite: Precalculus and permission of the instructor.

The purpose of AP Chemistry is to prepare students to meet the objectives of a college level chemistry course. The topics of atomic theory and structure, chemical bonding, states of matter, chemical reactions, acids and bases, solution chemistry, organic, nuclear, kinetics and thermodynamics will be dealt with.

Students who wish to receive college credits for chemistry may qualify by taking the AP Chemistry examination in May. Students who enroll in this course are expected to take the AP Exam.

A summer assignment is a required part of this course.

EARTH SCIENCE I - Academic

Fall Semester, ½ year, ½ credit

Prerequisite: Successful completion of core science requirements (Physical Science and Biology)
Geology

This semester course focuses primarily on the geology of the earth. The areas of study include rocks and minerals, map skills, topographic maps, plate tectonics, earthquakes and the earth's interior, volcanoes, geologic time, and earth's history, including an emphasis of those geologic processes that have shaped the Middlebury/Southbury area.

EARTH SCIENCE II - Academic

Spring Semester, ½ year, ½ credit

Prerequisite: Successful completion of core science requirements (Physical Science and Biology)

Physical Geology and Astronomy

In this semester course students will investigate those earth processes that impact the earth and its inhabitants. Physical Geology topics will include glaciation, stream mechanics,

mountain building and the earth beneath the sea. Astronomy topics will include the origin of our universe and the distribution of stars into galaxies and star clusters, stellar classification and evolution, and characteristics of the planets.

ENVIRONMENTAL SCIENCE I

Fall Semester, ½ year, ½ credit

Prerequisite: Successful completion of core science requirements (Physical Science and Biology)

Students will investigate how human society has impacted plants and animals around them. Students are expected to recall past knowledge from previous science courses to solve open ended problems. Second semester topics also include; human population and growth, studying the interaction of plants and animals in various ecosystems, land use management, biodiversity, nutrient cycles and an organism's role in an ecosystem.

ENVIRONMENTAL SCIENCE II

Spring Semester, ½ year, ½ credit

Prerequisite: Successful completion of core science requirements (Physical Science and Biology)

This semester course is designed for students who are highly motivated and have an interest in studying how human factors influence our environment. Topics include global interdependence, the importance of water, the causes and effects of human pollution, waste management, and the positive and negative effects of existing forms of energy.

FORENSIC SCIENCE

1/2 year, 1/2 credit

Prerequisite: Successful completion of core requirements in science

Forensic Science involves the application of scientific principles to the investigation of crime. Analytical methods will be applied to the study of sample evidence including fingerprints, pigments, hair fibers, and arson. This hands-on lab based course integrates scientific principles with the application of these principles to the study of crime.

HUMAN BIOLOGY - Honors

1 year, lab science - 1.25 credits

Prerequisite: Successful completion of one year of biology. One year of Chemistry is highly recommended.

Human Biology is an **Honors** elective course open to juniors and seniors. The areas of study include: organization of the human body, biochemistry, cytology, histology, systems of the body (skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive) and genetics. The interrelationship of the body's systems is stressed. Course study will also include some medical aspects of the human body. An exposure to health-related fields will be included.

MARINE SCIENCE & OCEANOGRAPHY

1/2 year, 1/2 credit

Prerequisite: Successful completion of core requirements in science

This semester course will cover topics such as physical oceanography, geology and topography of the basin and coast, water chemistry, circulation and climate. Marine Biology topics will include plankton, nekton, mammals, algae, and problems related to pollution. Possible field trips to the Long Island Sound will be required.

PHYSICAL SCIENCE - Core

1 year, lab science - 1.25 credits

This is a course that surveys the major topics of Chemistry and Physics. The course is structured to accommodate students who have experienced difficulty with mathematics and science. Physical Science is targeted at a population of students who wish to meet the minimal requirements needed in order to qualify for graduation from high school. Emphasis is placed on the mechanics of learning, e.g., note-taking, review and reinforcement, study skills, "hands on" activities, homework, and test-taking.

PHYSICAL SCIENCE - Academic

1 year, lab science - 1.25 credits

Corequisite: Algebra I or Algebra I, Sequence I

Physical Science is an introductory course that explores core topics in Chemistry and Physics. It is designed to give academic students first-hand exposure and experience in the physical sciences that builds upon the middle school programming and prepares students to take more advanced level courses in biology, chemistry, and physics. The major units of study include: measurement, atomic theory, the periodic table, bonding, acids, bases, salts, kinematics, dynamics, work and energy, electricity, magnetism, and light.

Physical Science meets the needs of both science students seeking minimum science credit for graduation; as well as students planning to participate in higher level science course-work.

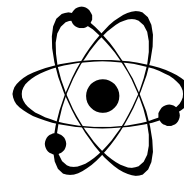
This course is not open to students who have passed chemistry or physics.

PHYSICS - Academic

1 year, lab science - 1.25 credits

Prerequisite: Algebra II

Physics is an exploration of the nature of matter and energy. Topics that will be taught include; potential and kinetic energy, measurement, problem solving, velocity, acceleration, Newton's Laws of Motion, two dimensional and periodic motion, waves, sound, light and electricity. The conservation laws of momentum, energy and charge serve as unifying concepts when the phenomenon of electricity and magnetism are examined. Physics is a laboratory science, 1.25 credits are issued for this course.



PHYSICS - Honors

1 year, lab science - 1.25 credits

Prerequisite: Grade of B or better in Algebra II and Chemistry

Corequisite: Precalculus

This course is offered to students who wish to continue the Honors Sequence in science. Physics is the fundamental science whose principles underlie all other sciences e.g., chemistry, biology, electronics, etc. This laboratory-oriented course provides an introduction to the investigative and analytical methods of science, with emphasis on mathematical methods.

The topics developed are mathematical descriptions of motion, Newton's laws of motion and gravitation, the conservation laws of momentum and energy, thermodynamics and molecular motion, electric and magnetic fields, electric circuit analysis and the production of electromagnetic waves and atomic structure.

This course provides a solid foundation in physics, for students planning to take the advanced placement physics course and/or enter any area of science or engineering.

PHYSICS - AP

1 year, lab science - 1.50 credits

Prerequisite: 1 year of Physics

Corequisite: Calculus and permission of the AP teacher

The classical aspects of mechanics, electricity and magnetism. Fifty percent of this course is devoted to the development of kinematics and dynamics of translation and rotation; Newtonian dynamics, conservation laws of work, energy, power and momentum.

The second half of the course is devoted to the study of electrostatics, potential difference, electric current in DC circuits, capacitors and capacitive circuits, magnetism, production of magnetic fields and electromagnetic induction.

Calculus is used throughout the course and is developed as needed.

Students who wish to receive college credits for Physics may qualify by taking the standardized AP Physics examination in May. Qualifying participants may also receive college credit for this course via the University of Connecticut's Cooperative Extension Program. Requirements, applications, and other descriptive material will be furnished by the instructor and/or guidance counselor.

Career & Technical Education

The Career & Technical Education program combines three disciplines, Business and Finance Technology, Family and Consumer Sciences and Technology Education. Each maintains its own identity, specific aims and programs.

NVCC PROGRAM

This program is offered in conjunction with Naugatuck Valley Community College and takes place at their facilities in Waterbury. Students are given both high school and college credit for successful completion of course work done through this program. A maximum of four NVCC courses can be counted as credit toward PHS graduation requirements and the first four courses successfully taken will be used. See your counselor for details.

Automotive Technician

- Integrated Automotive Systems
- Power Plant Overhaul

Aviation Science Technology

- Private Pilot Lecture

Computer Aided Drafting and Design

- CAD I (AUTOCAD)
- CAD II (AUTOCAD)
- Computer Aided Design I - Solid Works

Computer Information Systems Technology

- Introduction to Networking
- Local Area Networks
- Servicing and Support of Local Area Networks
- Visual Basic Programming
- Advanced Visual Basic

Criminal Justice

- Introduction to Criminal Justice
- Introduction to Forensics

Drafting

- Technical Drafting

Early Childhood Education

- Introduction to Early Childhood Education
- Creative Experiences in Art and Play

Engineering Technology

(Completion of 4 courses can result in an Engineering Technology Exploratory Certificate)

- Introduction to Technology
- Manufacturing Processes
- CAD I or
- Technical Drafting
- Electrical CAD and Fabrication

Hospitality Management

- Introduction to Hospitality Industry
- Food Service Sanitation
- Food Preparation I
- Food Production and Purchasing

Multi-Media Technology

- Introduction to Multi-Media

Nursing

- Certified Nurses Aide

COOPERATIVE WORK EDUCATION (CWE)

(1-2 credits over one year)

Prerequisites: Junior or senior status. Students are selected by the CWE coordinator based upon need and personal benefit to the student. Teacher and guidance recommendations are also considered.

CWE is a student-centered pre- apprenticeship providing for a school to work transition. It is a cooperative effort among the school, the student, and employers in the surrounding communities. The program includes both academic and work oriented instruction in the classroom and on the job. The Cooperative Work Education course should be selected as an integral part of a planned academic program. The classroom phase meets daily to prepare students in the areas of career education, decision making, goal setting, (work preparation, communication and technical skills). Students can take the classroom portion alone and receive one credit. However, they are encouraged to become involved in the actual work experience as well.

The community serves as a laboratory where carefully planned practical experiences can be applied concurrently with the classroom learning. Therefore, they have to be available for work daily after school and be able to provide their own transportation. The work experience credit earned will be based upon the actual number of successful hours worked and work evaluations. They can earn 1/4 credit up to one credit for their work experience (with successful completion of the classroom phase each quarter). Students also have to pass the classroom portion for the year to receive each quarter's credit. The average number of working hours encouraged is 10-15 hours (but no more than 20) per week.

BUSINESS AND FINANCE TECHNOLOGY

SEQUENCE OF COURSES

All courses are semester electives, unless otherwise noted. This is a guideline for a specific sequence to follow.

ACCOUNTING/MANAGEMENT

Proprietorship Accounting
Partnership Accounting
Corporate Accounting
Advanced Corporate Accounting
Business & Consumer Law
Marketing
Economics
Cooperative Work Education (1-2 years)

GENERAL OFFICE SEQUENCE ELECTIVES

Proprietorship Accounting
Partnership Accounting
Business & Consumer Law

Corporate Accounting
Advanced Corporate Accounting

LIFE SKILLS

Business and Consumer Law
Cooperative Work Education

ACCOUNTING:

In order to be an informed citizen capable of handling their own personal business matters, students should know how businesses operate and have a basic understanding of its language and principles. Accounting provides the student with the knowledge needed for present and future use. The accounting curriculum is divided into four semesters. The use of computers will be integrated into all four levels.

- Proprietorship Accounting
- Partnership Accounting
- Corporate Accounting
- Advanced Corporate Accounting

PROPRIETORSHIP ACCOUNTING

1/2 year, 1/2 credit

This course presents the introductory phase of accounting. It is beneficial to all students. It provides a beginning foundation for students interested in business after high school or in college. The accounting cycle as it applies to personal use and a proprietorship service business is stressed. Current events and ethics in business will be included in class discussions. Preparation and interpretation of journals, ledgers, and statements are presented. Students will also learn how to prepare their own income tax returns. Advances in technology and the use of computers in business for accounting purposes will be introduced.

Students may receive one math credit when they successfully complete this course and the Partnership Accounting course. See your counselor for details.

PARTNERSHIP ACCOUNTING

1/2 year, 1/2 credit

Prerequisite: Proprietorship Accounting

This course builds upon the introductory course of proprietorship accounting. Students will learn how to keep the financial records of a merchandising business that has two or more partners. The use of special journals, handling payroll, taxes, and completing the end of the fiscal period adjustments and procedures will be presented. Current business events will be stressed. Students will continue to see how computers help accountants in the business field.

Students may receive one math credit when they successfully complete this course and the Proprietorship Accounting course. See your counselor for details

CORPORATE ACCOUNTING

1/2 year, 1/2 credit

Prerequisite: Partnership Accounting

This course is a continuation of partnership accounting. It is for students planning a career in the accounting field or in business. Managing the financial records for a corporation will be stressed. Students will learn how to handle uncollectible accounts, depreciation, notes, inventory, accruals, taxes, and voucher systems for a corporation. Current events in business will be stressed. Computerized information for handling the financial records of a corporation will be presented.

ADVANCED CORPORATE ACCOUNTING

1/2 year, 1/2 credit

Prerequisite: Corporate Accounting

This course is a continuation into special applications of accounting at the corporate level. The use of computers will be a major part of this course. Managerial accounting, cost accounting, not-for-profit organizations, cash flow, forecasting, taxes, and decision making are areas to be covered as well as software applications including the use of spreadsheets.

BUSINESS AND CONSUMER LAW

1/2 year, 1/2 credit

This course cannot replace Civics.

Business and Consumer Law is a course in which students are taught how the law applies to their everyday lives and to their human experiences—situations in which people relate in some way to one another as consumers and in the business world. Among the topics covered are criminal and tort law, our court system, jury duty, contracts, agencies, personal and business legal agreements.

ECONOMICS

1 year, 1 credit

This course helps the student to better understand the role of the producer and consumer in the economy. Personal finance, investment options, and general trends in the American economy will be discussed as well as real world economic problems. Major principles of micro and macro economics will be addressed. This course is especially beneficial to the student planning a career in business.

MARKETING

1 year, 1 credit

In this course the student will learn the basic principles of marketing and develop an understanding of the career opportunities in the areas of advertising, merchandising and marketing. Topics will include product development and promotion, design and packaging, event planning, methods of advertising, public relations, and sales promotion.

FAMILY AND CONSUMER SCIENCES



The major concern of Family and Consumer Sciences education in the high school is for the total well-being of the individual and his/her relationship to the home and society. The program builds a foundation of knowledge and skills necessary to live in today's world.

This program contributes to the development of the students' self awareness and ability to function successfully in society.

CULINARY ARTS I

1/2 year, 1/2 credit

If you like to cook or want to learn to cook, and are interested in your health and appearance, take Culinary Arts I. You'll learn how to cook, what to cook, when to cook, and how to enjoy eating what you cook.

CULINARY ARTS II

1/2 year, 1/2 credit

Prerequisite: Culinary Arts I or instructor permission

Students who take Culinary Arts will follow a course of study which emphasizes food knowledge and preparation skills for quantity food service. The class becomes involved in planning, preparing and serving staff luncheons and food sales.

EXPLORING CHILDHOOD I

1/2 year, 1/2 credit

Students in Exploring Childhood I will learn about the development of children from prenatal life to three years of age, hopefully developing a better understanding of children and the responsibilities of parenting and child care. Students enrolled in Exploring Childhood will participate in a playschool for preschoolers at the end of the semester.

EXPLORING CHILDHOOD II

1/2 year, 1/2 credit

Prerequisite: Exploring Childhood I

Exploring Childhood II will allow students to spend more time interacting with preschool age children. The content of the course will emphasize the physical, cognitive, social and emotional development of the preschooler. Students will also take part in a play-school experience for 3-5 year olds at the high school as an exploration of a possible career with children.

INTERIOR DESIGN

1/2 year, 1/2 credit

This course open to all students is designed to aid young men and women in planning, caring for and decorating their own room, apartment, or home. Other areas covered are decisions to buy or rent, careers in interior design, and buying or refinishing furniture. This is a good course for art students to add to their portfolio.

INTERNATIONAL CULTURES AND CUISINE

1/2 year, 1/2 credit

This foods course is a course for any student who would like to become more familiar with cooking styles and food choices of a variety of cultures. Differences in international cuisine and the historical and geographical reasons for these differences will be explored.

The only prerequisite is that students have a genuine interest in foods and other cultures.

TECHNOLOGY EDUCATION

The high school's Technology Education program offers courses that provide general or specialized opportunities in the area of technology. Emphasis is placed on the students discovering and developing individual talents, aptitudes, interests, and potential as related to industry and technology.

The Technology Education program focuses on providing students with an opportunity to develop basic skills in the proper use of common industrial tools, materials and processes.

ANIMATION

1 year, 1 credit

Prerequisite: Computer Design I

This course is designed to give students the skills needed to use 3D Studio Max and become proficient with using animation software. This includes creating/manipulating compound shapes, box modeling, animating objects, applying special effects, creating 3D scenes, and character development. Students will learn how to navigate through the variety of options to add lighting, materials, cameras and modifiers. Career opportunities using animation are discussed throughout the year and samples of such work are presented and demonstrated.

ARCHITECTURAL DESIGN

1 year, 1 credit

This beginning course in architectural drafting and design provides experience in the planning and development of residential and commercial structures. Developing scale models will also be a consideration that may supplement various working drawings.

Students will experience the computer design lab in developing floor plans, elevations, and other related architectural drawings.

COMPUTER DESIGN I

½ year, ½ credit

Computer Design I introduces the student to current means of generating mechanical drawings and graphic designs with computers. The majority of time will be spent using Auto Cad 14 regenerating class projects. A computer-aided manufacturing lathe workstation will also be used to integrate design with machine reproduction of chess pieces during the course of the year. Other topics that may be covered include: Engineer, machinist and architectural drawings that will be printed or plotted out.

COMPUTER DESIGN II

1 year, 1 credit

Prerequisite: Computer Design I

Computer Design II is an advanced level of Computer Design I using AutoCAD products. The course is designed as an elective to assist students entering the field of engineering or design. Consideration will be given to metric measurements, three dimensional design, multi-view, assembly, sectional, and working drawings. Advanced techniques such as surface application, wireframe, and animation/rendering will be explored.



CONSTRUCTION TECHNOLOGY

1 year, 1 credit

An elective course designed to initiate and develop the student's ability to intelligently evaluate, design and construct useful products. Students will create or use a set of drawings and formulate a bill of materials to construct their projects. Construction principles, procedures, machines, materials and hand tools will be covered. Other units include welding, mass production, home wiring, plumbing, electrical and other construction related topics. Safe working procedures, proper design and pride in craftsmanship will be emphasized.

GRAPHIC COMMUNICATION

1 year, 1 credit

This introductory course is designed to give students the skills needed to design and produce a variety of computer generated printed products. The use of photography, computer design and printing equipment will be explored. Projects including screen-printed clothing, web site creation, animation, posters and signs, as well as printed notepads and business stationary will be completed throughout the year. Areas of concentration and the source for key (anchor) tasks during the year are Design and layout, Image generation, Software applications and Print production.

ADVANCED GRAPHICS

1 year, 1 credit

Prerequisite: Graphic Communication, Teacher approval/Portfolio

Students will be provided the opportunity to apply those concepts learned in the first year course in a much more detailed fashion. Traditional activities of graphic design and layout, web site design and creation, flash animation, multicolor screen process and offset printing will serve as the core of the program with a focus on advanced web site design and different methods of printing. In addition to the above mentioned activities, a wide variety of graphic and desk-top-publishing computer applications will be taught, providing the student with a well rounded skill set which can be applied to other course requirements at P.H.S.

INFORMATION SYSTEMS

1/2 year, 1/2 credit

Prerequisite: Student portfolio presented to instructor

Information Systems (Info_Sys) is a hands-on survey course focusing on the role of IT in an organization. The IT department supports the organization in many specific, mission-critical ways. Info_Sys will explore the role of IT at Pomperaug High School. Specific areas explored will include planning for enhancement of the program at PHS, troubleshooting hardware and software issues, administrating the Local Area Network (LAN), and helping users with applications.

CONNECTICUT INNOVATION ACADEMY (CTIA)

1 year every other day, ½ credit

The Connecticut Innovation Academy (CTIA) course develops academic, engineering, and problem-solving skills through the completion of a comprehensive project. Students act as members of a design team and utilize a variety of communication technologies and multimedia software to research, design, develop, and present a viable solution to a comprehensive challenge. Students form a mock technology company and assume roles in the company to complete activities needed to develop a solution. Patent research and intellectual property management are integral components of the project. This comprehensive instructional strategy mirrors IT industry R&D and IT project engineering work that results in multiple solutions and the development of valuable high-tech engineering and business management skills.

TECHNOLOGICAL ENTERPRISE

½ year, ½ credit

The course will provide an opportunity for the students to design a product based on customer needs, characteristics of available materials and available tools and equipment. Students will create a company, develop a logo and calculate the cost to produce the manufactured product. Student emphasis will then be to develop a marketing plan and successfully market the finished product.

TRANSPORTATION TECHNOLOGY

1 year, 1 credit

Transportation Technology deals with fundamentals of land, air, sea and space transportation. Students will have the opportunity to disassemble, rebuild and reassemble a small gas 2 or 4 cycle engine with the understanding of how these engines function in lawn mowers, motorcycles, chain saws, cars and boats etc. Other topics covered include alternative energy sources, robotics, simple machines and related math, history, and physics. The course cumulates with the construction of radio control planes that students will fly using information acquired during the course.

VIDEO PRODUCTION I

Visual Literacy

1/2 year, 1/2 credit

Utilizing the high school's video studio and post production facility, Video Production I is primarily an introductory course in studio production and programming for educational access television. Video Production I will provide students with visual literacy skills to make informed and critical decisions as they create several video productions. Students will be instructed from concept to creation on an introductory level in all phases of video production including: scriptwriting, storyboarding, camera operation, audio production, lighting techniques, character generation, non-linear editing, and compositing. The course will also promote the following skills: critical thinking, collaboration, problem-solving, research and time management. This course addresses the needs of not only technologically oriented students, but also of artistic and theatrically oriented students.

VIDEO PRODUCTION II

Media Literacy, Electronic News Gathering, News Broadcasting

1/2 year, 1/2 credit

Prerequisite: Video Production I

Building on the skills acquired in Video Production I, students in Video Production II will make projects to be aired over the Educational Access Channel, and develop a school video news program using communications tools to foster academic inquiry in meaningful, active ways beyond mere transmission of images. Students will be instructed from concept to creation on an intermediate level in all phases of video production including: scriptwriting, storyboarding, camera operation, audio production, lighting techniques, character generation, non-linear editing, and compositing. Students will also be introduced to special effects, animation, and compositing as they relate to their news broadcasts.

VIDEO PRODUCTION III

Special Effects, Animation & Compositing

1/2 year, 1/2 credit

This course focuses on the creation of 2D/3D special effects in digital video productions with an emphasis on animation key framing, technical accuracy, and proper compositing techniques. Students will conceptualize and create professional video compositions such as show opens, commercials, and broadcast animations that will meet the elevated visual expectations set by network television and appear on the educational access channel.



ART



The goals of the high school art program are achieved through specific courses and studio experiences. It enables the student to be involved individually and in groups, in problem-solving, inquiry, and in skill development through various media.

CERAMICS & POTTERY 1

1/2 year, 1/2 credit

A course in techniques of hand-built pottery. Emphasis will be on individual creativity, structure, design, decoration and glazing techniques. The course is an introduction to ceramic sculpture and wheel-throwing. Preferential scheduling will be for seniors, juniors and sophomores.

ADVANCED POTTERY:

It is possible that students scheduled for Advanced Ceramics & Pottery 2, 3 or 4 will be scheduled into one classroom during the same block.

ADVANCED CERAMICS & POTTERY 2

1/2 year, 1/2 credit

Prerequisite: Ceramics & Pottery 1

This course is a second semester offering that builds upon techniques developed in Ceramics and Pottery 1. Students will develop skills in hand building, wheel throwing and sculpture. In addition, students will learn decorating and glazing techniques.

ADVANCED CERAMICS & POTTERY 3

1/2 year, 1/2 credit

Prerequisite: Ceramics & Pottery 2

In this advanced course, students will pursue individualized paths of instruction in the areas of sculpture, wheel throwing and/or hand building. Advanced decorating and glazing techniques within these individualized strands will be developed. As an advanced course, students considering a future in visual art or an art related field are strongly encouraged to take this class. Juniors and seniors will be given priority for placement in this course.

ADVANCED CERAMICS & POTTERY 4

1/2 year, 1/2 credit

Prerequisite: Ceramics & Pottery 3

This course is a second semester offering that builds upon techniques developed in Advanced Ceramics and Pottery 3. Through individualized instruction students work within the strands of sculpture, pottery and/or hand building. As an advanced course, students considering a future in visual art or an art related field are strongly encouraged to take this class.

Juniors and seniors will be given priority for placement in this course.

CRAFTS I

1/2 year, 1/2 credit

This art course includes activities in the following areas: fabric design, soft sculpture, leaded glass, jewelry, stenciling, and basketry.

Emphasis will be on the elements of design and color and how they apply to the above mentioned crafts.

Juniors and seniors will be given priority.

CRAFTS II

1/2 year, 1/2 credit

Prerequisite: Counselor and Crafts I teacher recommendation

This art course is a continuation of Crafts I.

DRAWING & PAINTING I

1 year, 1 credit

Introduction to drawing & painting. Discussion and use of various media such as pencil, charcoal, conti crayon, pen and ink, pastel, transparent water color and acrylic painting on canvas. Assignments will cover still-life painting, landscape (outdoor sketching), drawing from the model, contour drawing, self portraits and story illustrations on scratchboard. Students will be made aware of the relationship of their study to works of art in history, through classroom discussions, art prints, slides, videos and CD Rom.

DRAWING & PAINTING II

1 year, 1 credit

Prerequisite: Drawing & Painting I

Students will focus on an in-depth range of art experiences with a more involved use of two-dimensional materials. They will develop a more sophisticated independent judgement and sense of aesthetic value.

Students considering an art career will develop and prepare a comprehensive art portfolio for college acceptance.

FUNCTIONAL DESIGN

"Designing Our World"

1/2 year, 1/2 credit

This course is focused on the investigation of the multifaceted world of design. Students will work on creating the places, products and communications which satisfy our physical, social and cultural needs and desires. The fields of architecture, interior, landscape, jewelry, fashion, systems, product and graphic design will be explored through inquiry, research, problem solving and fabrication. We live in a designed world. Here is your chance to better understand that world and express yourself through it.

FUNDAMENTALS OF ART DESIGN

1 year, 1 credit

Fundamentals of Art Design is the study of the principals and elements of design and how they are used in works of art.

This foundation course is an exploration of various media and materials. The course will include: block printing, lettering, drawing, sculpture, papier mache, pen and ink, painting, and color theory. An introduction to computer art will also be explored.

PHOTOGRAPHY I

1/2 year, 1/2 credit

This introductory course will explore basic 35mm black and white photography and give students skills needed to take successful photographs. Areas of concentration will include camera operation, film processing, darkroom processing and special darkroom techniques. Emphasis is placed on project creativity, individual discovery and development of ideas, therefore high expectations are placed on student work and self direction is essential.

The Art Department owns a limited number of cameras which may be shared among students within the school. It is highly recommended that students work with their own 35mm cameras.

PHOTOGRAPHY II

1/2 year, 1/2 credit - Prerequisite: Photography I

This course is designed for students who have acquired basic knowledge of black and white photography. Students will create photographs based on the use of art elements and principles. Major emphasis will be placed on advanced technical and artistic application, experimental processes and problem solving skills. Students will build a body of work that will reflect individual style and self expression. A high degree of motivation, individual discovery and critical thinking is expected at this level.

PRINTMAKING I

1/2 year, 1/2 credit

Prerequisite: Fundamentals of Art Design or Drawing and Painting I

This course will introduce the student to basic printmaking procedures. Fundamental techniques and aesthetics will be emphasized throughout traditional relief and intaglio methods. Students will problem solve, experiment and create a collection of multiple prints in these various methods.

SCULPTURE I

1 year, 1 credit

Through the creation and manipulation of three-dimensional space, this course will investigate the principles of 3-D design height, width and depth, as well as, balance, symmetry, form, texture, color and rhythm. Students will explore additive and deductive processes such as casting, building, sculpting and carving. Employing clay, plaster, wood, wire, paper products, and various other materials, students will enhance their problem solving ability, skills development and creative expression.

SCULPTURE II

1 year, 1 credit

This course will offer an extensive exploration of 3D media that builds from Sculpture I to further develop problem solving skills, creativity and self expression. Students will have the opportunity to explore as sculptors on a more advanced level that includes various media, including wood, paper, plaster, and clay.

STUDIO ART - AP

1 year, 1 credit

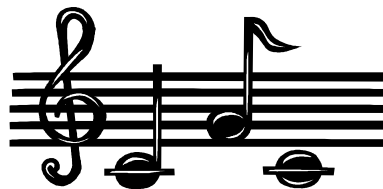
Prerequisites: Drawing and Painting II and recommendation by AP teacher

The advanced placement program in Studio Art enables highly motivated students to do college-level work in studio art while still in high school. AP Studio Art is not based on a written examination; instead, candidates submit a portfolio of work for evaluation at the end of the school year.

The guidelines for the AP Studio Art portfolios have been designed to accommodate a variety of interests and approaches to art. The three sections of the portfolio are:

- Quality - the development of a sense of excellence in art;
- Concentration - a commitment in depth to a particular artistic theme & problem; and
- Breadth - a variety of experiences in the formal, technical, and expressive means available to an artist.

MUSIC



Pomperaug Regional High School music department offers students the opportunity to nurture their musical skills through ensemble and classroom experiences. Music students are able to participate in multiple ensembles, further enriching their total musical experience at Pomperaug High School.

As an outgrowth of the large performing ensembles, the opportunity to perform in a smaller group setting may arise. These groups, such as girls choir, flute choir, etc. are open to all PHS music students based on availability. **This is not a scheduled course and no credit is awarded.**

CONCERT BAND

1 year, 1 credit

Repertoire is selected from standard literature, as well as some "Pop", and "Show" arrangements with the developing musician in mind. Emphasis is placed on nurturing each student's growth in the areas of, tone, balance, intonation, rhythm and musicality. Concert Band is a prerequisite to Symphonic Band. All members of the Symphonic and Concert Bands are members of the Marching Band, which performs at football games and parades. Freshmen can be members of both the Concert Band and Concert Choir.

SYMPHONIC BAND

1 year, 1 credit

Prerequisite: Concert Band

Entrance into Symphonic Band is granted by audition. Literature is selected from some of the most challenging material performed by high school bands. Students enrolled are

expected to practice consistently, and be able to learn their music at an advanced pace. All members of the Symphonic and Concert Bands are members of the Marching Band, which performs at football games and parades.

JAZZ BAND

1 year, 1/2 credit

Members are auditioned and must be part of the PHS band program. The group rehearses after school and performs in concerts and events throughout the year. Advanced jazz compositions are performed.

CONCERT CHOIR

1 year, 1 credit

Repertoire is selected from standard literature, as well as some, "Pop" and "Show" arrangements with the developing musician in mind. Emphasis is placed on nurturing each student's growth in the areas of, balance, diction, and understanding of the text. Concert Choir is a prerequisite to Chorale. Freshmen can be members of both the Concert Band and Concert Choir.

CHORALE

1 year, 1 credit

Prerequisite: Concert Choir

Entrance into Chorale is granted by audition. Literature is selected from some of the most challenging material performed by high school choruses. Students enrolled are expected to learn their music at an advanced pace.

CHAMBER SINGERS

1 year, 1/2 credit

Members are auditioned and must be part of the PHS choral program. The group rehearses after school. A wide variety of selections are performed, including a cappella and show music.

ORCHESTRA

1 year, 1 credit

Repertoire is selected from standard literature of the Baroque, Classical and Contemporary era, and may also include "Pop" and "Show" arrangements with the developing musician in mind. Students have the opportunity to perform music written for string orchestra as well as full orchestra. Emphasis is placed on nurturing each student's growth in the areas of tone, balance, intonation, rhythm and musicality. Students enrolled are expected to practice consistently.



CHAMBER ORCHESTRA

1 year, 1/2 credit

Corequisite: Orchestra.

Members are auditioned and must be a part of the PHS Orchestra. The group rehearses after school and performs in concerts and events throughout the school year. Advanced string repertoire is performed from a variety of composers and genres.

MUSIC HISTORY AND APPRECIATION

1/2 year, 1/2 credit

This course is open to all students regardless of their musical background. The development of music, and its role in history, art and culture, will be traced from the Middle Ages to the present. Through listening, reading, discussion, projects and class presentations, students will explore important musical compositions and stylistic periods.

MUSIC THEORY

1/2 year, 1/2 credit

This course focuses on the basics of music notation, intervals, chord, scales and rhythm. It is recommended that students be able to identify notes on a staff. Students interested in developing a better understanding of music are encouraged to take the class.

AP MUSIC THEORY

1 year, 1 credit

Prerequisite: Recommendation by AP Teacher

Prior musical training, including the ability to read traditional notation, is a prerequisite. The course focuses on the study of melody, harmony and all other elements of musical composition. As an advanced course, students considering a future in music or an arts related field are strongly encouraged to take this class.

THEATRE ARTS

ACTING I

1/2 year, 1/2 credit

This course will introduce the basics of acting. Class activities and exercises will develop students' observation and concentration skills; vocal awareness, projection, and control; self-awareness and self-control; memorization skills; sense memory and emotion memory; and stage movement. Students will participate in theatre games and prepare improvisations, pantomimes, scenes, and monologues, through which they will develop confidence as they increase their understanding of character and interpersonal relationships. Students will critique their own and professional performances, research dramatic texts, and engage in peer evaluation. They will also develop greater cooperative work skills as their understanding of actors' responsibilities towards themselves and towards others, both on and off stage, grows. Considerable emphasis is placed on exploring all of the actor's resources – physical, intellectual, and emotional – in the creation of character and its presentation before an audience. Finally, the course explores acting techniques from both the Stanislavski and technical methods.

All students are encouraged to audition for the fall and spring productions or participate in some aspect of these performances; however, this participation is not a requirement for this course.

ACTING 2

1/2 year, 1/2 credit

Prerequisite: Passing grade in Acting 1

This course is built on the foundations laid in Acting 1. Students will develop an awareness of an individual's (and their own) social repertoire and examine how such social interactions can be revealed in a character's words and actions. They will be assigned challenging scenes and monologues in a master class format, where they will engage in open rehearsals and participate in constructive criticism. Students will also be required to engage in peer and self-evaluations regularly. A major portion of this course is given over to developing the special skills required to perform Shakespeare and other classic theatre works. This is a rigorous course and requires considerable out-of-class preparation.

ACTING IN PRODUCTION

1/2 year, 1/2 credit



This pass/fail course is a practicum in acting. Students audition for one of the two annual productions. If accepted, they will then rehearse and perform in the black box (fall semester) or mainstage (spring semester) production by the Pomperaug Theatre Company. Rehearsals occur directly after the regular school day. All aspects of professional performance are included: script analysis, rehearsal protocol, blocking, stage movement, memorization, characterization, physicalization, vocal projection, timing, delivery, character make-up, handling of props, wearing costumes, and responsiveness to fellow actors. It is emphasized throughout that every member of the cast and crew is important. Actors are expected to attend all rehearsals for which they are scheduled. Of course, they are also expected to attend and participate in all scheduled performances before a live audience. Occasionally, the PTC will bring a production to an outside venue, such as the Connecticut Drama Festival; actors are expected to participate in these events.

STAGECRAFT IN PRODUCTION

1/2 year, 1/2 credit in Arts/Vocational Arts

This pass/fail course is a practicum in stagecraft in conjunction with either the black box (fall semester) or mainstage (spring semester) production by the Pomperaug Theatre Company. Students who are signed up for this course must commit themselves to attending all rehearsals and performances. Rehearsals occur directly after the regular school day. All crew members are expected to read and become thoroughly familiar with the play under production. Crew members may be assigned a variety of tasks, depending on the needs of a given production. Among these tasks and activities are assistant directing; stage managing; set design, construction, and painting; lighting design and execution; sound design and execution; costume design and execution; properties management; house management and operation; business and publicity; backstage operation and inventory; and running crew. Much emphasis is placed on practical problem-solving. Students in stagecraft will acquire and develop a stage vocabulary and familiarity with concepts in design and execution of stage technologies. It is emphasized throughout that every member of the cast and crew is important. Occasionally, the PTC will

bring a production to an outside venue, such as the Connecticut Drama Festival; crew members may be expected to participate in these events.

Note: All theatre arts courses may include attendance at plays performed by professional theatre companies and interactions with other high school theatres.

HEALTH

HEALTH

1/2 year, 1/4 credit

This course is mandatory for all Freshmen. The focus is on the mental, physical, and social aspects of living a healthy life style and the development of attitudes that promote healthy living. Topics include: Anatomy and physiology of human reproduction, mental health, drug use and abuse, cardiopulmonary resuscitation and decision-making processes in daily living.

QUEST - SKILLS FOR LIVING

1/2 year, 1/4 credit Grade 10

This course is mandatory for all sophomores and provides students with activities and knowledge that will help them lead lives and make decisions which are personally satisfying and socially constructive.

Students work together to define and build a climate of trust and then participate in units under the headings of *communication, self concept, feelings, and friends*. Each student keeps a journal which is personal to them and receives a text called *You are Somebody Special*. Homework assignments are in the forms of reading chapters in the book, writing assignments, and special group projects. Attendance and participation is of the utmost importance.

FIRST AID AND PERSONAL SAFETY

½ year, ½ credit

This course is open to grades 10-12. Seniors are given priority. Students can become certified by the American Red Cross in both First Aid and CPR. The course offers theoretical exposure to medical emergencies. Practical treatment will occur through simulation exercises designed to train the student to respond to the following: patient assessment, basic life support, choking, bleeding and shock, head and spine injuries, fractures, dislocations, medical emergencies, etc.

ELECTIVES:

EMERGENCY MEDICAL TECHNICIAN (EMT)

1 Year, 1.25 Credit

In collaboration with Southbury Ambulance, this rigorous elective course is designed for students interested in the medical science field. Through a combination of lecture and hands-on experiences, students will learn a variety of important basic life support skills, such as cardiac and respiratory emergencies, traumatic injuries, emotional and psychological emer-

gencies, and EMS operations. The new course will be taught by a certified health teacher/staff member at PHS, as well as personnel from Southbury Ambulance. Ten hours of clinical observation time are required in addition to the classroom hours. Students will have the option of taking the National Registry Exam for EMT certification at the end of the course.

PHYSICAL EDUCATION

Students participate in a course designed to teach them about lifetime health-related fitness.

1/2 year/1/4 credit/year

Units include:

9TH GRADE

Foundations of Training

Students will gain an understanding of the importance of being physically fit and learn ways to personally manage their own fitness in order to maintain healthy life-styles. The 9th grade curriculum includes units on Weight Management, Care and Prevention of Injuries and The Benefits of Exercise for Health. In addition the class will include the lifetime activities of swimming and weight training.

10TH GRADE

Health Related Fitness

Students will continue the health related fitness course. Units include Muscular Development, Pulmonary Fitness, Body Composition and Flexibility. The students will also participate in a unit of golf. Students in the 10th grade participate in the state physical fitness assessment.

11TH GRADE

Personal Fitness

This course for juniors involves classroom study and discussion as well as non-competitive physical activity. Students study the components of fitness. They will develop an understanding of the benefits of exercise, training principals, and evaluate the effect of various physical activities on wellness. Course work will cover the physiological benefits of exercising on the body systems, metabolism and aging. The students will learn to evaluate their own personal fitness and design their own personal fitness program.

12TH GRADE

Lifetime Wellness

In this course students study skeletal fitness, stress and cardiovascular fitness. They will participate in jogging, weight bearing exercises, meditation, aerobics, tennis and volleyball.

LIFEGUARD TRAINING

This course provides students with the knowledge, skills, and practice needed to become well trained and effective lifeguards at pools and non-surf beaches. In addition to learning preventative lifeguarding and facility safety, participants practice rescue approaches, assists, tows, and carries, as well as defenses and escapes. This course teaches first aid for seizures in the water, for heat emergencies, and for hypothermia. The class includes practice in rescue breathing and using special rescue equipment. Emergency care for spinal injury in the water is emphasized. Red Cross certification is awarded for successful completion.

The class is open to juniors and seniors.

SPECIAL EDUCATION PROGRAMS

SPECIAL EDUCATION RESOURCE

The Special Education Resource Program provides assistance and support to those students with special education needs, who can be successful in the regular classes provided they receive some extra support and assistance from a special education teacher. These services may be provided in the regular classes working collaboratively with the regular education teacher and/or in a special education resource room. These teachers also provide consultative services to the regular education teachers of these students and other at risk students who may not meet criteria for special education placements.

SPECIAL EDUCATION LEARNING CENTER

Learning Centers provide special individualized, education programs to students who are unable to adjust to and/or benefit from a regular classroom environment even with support. Students may participate in one or more learning center classes dependent upon their individual needs. They are also provided with practical social and emotional experiences designed to help them develop more positive attitudes toward themselves and others. This program also has a prevocational/vocational component to begin helping these students to prepare for the transition into the adult world.

THE MARY I. JOHNSON PROGRAM

The Mary I. Johnson Program (formerly Alternative Education) is a satellite program of PHS which provides repeating freshman and tenth through twelfth graders the small group, structured, specialized program they require in order to complete their high school graduation requirements. Students must take the same courses, meet the same standards, and, if successful, receive a regular PHS diploma. Students must be recommended for placement by an admissions committee consisting of representatives from both PHS and MIJ.

Committee member will review and consider the academic needs of each individual student, his/her academic record, and whether placement in the MIJ alternative school is appropriate.

NEW PROPOSED COURSES

(Addendum)

METEOROLOGY - Academic

Prerequisite: Successful completion of PHS core science requirements (Physical Science & Biology)
½ year, ½ credit

This course will give students an in-depth study of the nature of weather forces and climate. The course will cover topics such as weather observation, temperature, the water cycle, weather forecasting, atmospheric pressure, humidity, wind, air masses, severe weather, and global warming.

FIELD BIOLOGY - Academic

Prerequisite: Successful completion of PHS core science requirements (Physical Science & Biology)
½ year, ½ credit

This course gives students an opportunity to learn about the natural world through outdoor field studies and classroom activities. Emphasis will be on identifying and studying local plants and animals. Students will have the chance to become amateur field biologists and will receive training in wildlife censusing, animal identification, winter botany, identifying birds by sound and sight, insect identification, wildflower and forestry surveying. Assignments involve collecting and analyzing data from field studies. Several writing assignments will require data analysis of field work, graph interpretation, and biological observations. This course involves walking, hiking and outdoor field work in all kinds of weather. This course broadens student's knowledge in the biological sciences by presenting topics not covered in their first year of biology.

INTRODUCTION TO ENGINEERING AND GREEN TECHNOLOGY - Academic

Prerequisite (co-requisite): Chemistry and (Physics)
½ year, ½ credit

This course covers the practical uses of "green" technologies for students interested in engineering as a possible career. Topics include: wind, fuel cells, bio-fuels, electric cars, solar power, and computer aided design. In this hands-on course students will construct an operational fuel cell, solar powered generator and battery powered robot. Purification of cooking oil to prepare bio fuel will be explored. Physics concepts of force, motion, electricity, stress, and strain will be studied. Practical applications of electricity and magnetism will be highlighted (fuel cells, maglev trains).

MATHEMATICAL MODELING - Academic

Prerequisite: Successful completion of Algebra 2
½ year, ½ credit

This course presents an introduction to mathematical modeling based on the use of elementary functions (linear, quadratic, exponential, logarithmic, and trigonometric) to describe and explore real-world data and phenomena. Students are taught how to construct useful mathematical models, to analyze them critically, and to communicate quantitative concepts effectively. Graphing calculators will be used extensively to engage students in the concrete modeling of mathematical applications.

COURSE #	COURSE	CREDIT	LEVEL	GRADES AVAILABLE				PAGE
ENGLISH				9	10	11	12	
1011	English I	1	H	X				1
1012	English I	1	A	X				1
1013	English I	1	C	X				1
1021	English II*	1	H		X			1
1022	English II*	1	A		X			1
1023	English II*	1	C		X			1
1031	English III*	1	H			X		1
1032	English III*	1	A			X		1
1033	English III*	1	C			X		1
1391	English III*: AP Language	1	AP			X		1
1042	English IV*	1	A				X	1
1491	English IV*: AP Literature	1	AP				X	2
1035	Creating America through Art & Lit	1	A			X		1
SOCIAL STUDIES				9	10	11	12	
2432	Participatory Civics	.50	A			X	X	2
2433	Participatory Civics	.50	C			X	X	2
2291	Government: AP*	1	AP				X	3
2042	Practical Law	.50	A			X	X	3
2036	Intro To Psychology I*	.50	A			X	X	3
2037	Psychology II*	.50	A			X	X	3
2391	Psychology: AP*	1	AP				X	3
2031	United States History*	1	H			X		2
2032	United States History*	1	A			X		2
2033	United States History*	1	C			X		2
2091	United States History: AP*	1	AP			X	X	2
2011	World History I	1	H	X				2
2012	World History I	1	A	X				2
2013	World History I	1	C	X				2
2021	World History II*	1	H		X			2
2022	World History II*	1	A		X			2
2023	World History II*	1	C		X			2
WORLD LANGUAGES				9	10	11	12	
3012	French I	1	A	X	X	X	X	3
3022	French II*	1	A	X	X	X	X	3
3021	French II*	1	H	X	X	X	X	4
3032	French III*	1	A		X	X	X	4
3031	French III*	1	H		X	X	X	4
3041	French IV*	1	H			X	X	4
3091	French V* AP	1	AP				X	4
3112	Spanish I	1	A	X	X	X	X	4
3122	Spanish II*	1	A	X	X	X	X	4
3121	Spanish II*	1	H	X	X	X	X	5
3132	Spanish III*	1	A		X	X	X	5
3131	Spanish III*	1	H		X	X	X	5
3141	Spanish IV*	1	H			X	X	5
3142	Spanish IV*	1	A			X	X	5
3151	Spanish V*	1	H				X	5
3191	Spanish V* AP	1	AP				X	5

*Prerequisite(s), **Corequisite

Key: H=Honors, A=Academic, C=Core, AP=Advanced Placement, PM=After School

COURSE #	COURSE	CREDIT	LEVEL	GRADES AVAILABLE				PAGE
				9	10	11	12	
MATHEMATICS				9	10	11	12	
	Accounting	.50	A			X	X	12
4013	Algebra I Sequence I - Part 1*	.50	C	X	X			6
4016	Algebra I Sequence I - Part 2*	.50	C	X	X			6
4012	Algebra I*	1	A	X	X	X	X	6
4023	Algebra I Sequence II*	1	A		X	X		6
4032	Algebra II*	1	A		X	X	X	6
4021	Algebra II*	1	H		X	X	X	7
4033	Applied Geometry - Part 1*	.50	C		X	X	X	7
4035	Applied Geometry - Part 2*	.50	C		X	X	X	7
4151	Calculus*	1	H				X	7
4091	Calculus* AP	1	AP				X	7
4123	Consumer Mathematics*	1	C			X	X	7
4113	General Mathematics	1	C	X				7
4022	Geometry*	1	A	X	X	X	X	7
4011	Geometry*	1	H	X	X	X	X	7
4043	Introduction to Algebra II*	1	A			X	X	6
4031	Precalculus*	1	H			X	X	8
4042	Precalculus*	1	A			X	X	8
4142	Prob/Statistics - Part 1*	.50	A			X	X	8
4045	Prob/Statistics - Part 2*	.50	A			X	X	8
4191	Statistics* AP	1	AP		X	X	X	8
4045	Mathematical Modeling*	.50	A			X	X	22
SCIENCE				9	10	11	12	
5023	Biology/Lab	1.25	C		X			9
5022	Biology/Lab*	1.25	A		X			9
5011	Biology/Lab*	1.25	H	X	X			9
5091	Biology/Lab: AP*	1.25	AP			X	X	9
5032	Chemistry/Lab*	1.25	A			X	X	9
5021	Chemistry/Lab*	1.25	H		X	X	X	9
5191	Chemistry/Lab: AP*	1.25	AP			X	X	9
5222	Earth Science I*	.50	A			X	X	9
5232	Earth Science II*	.50	A			X	X	9
5402	Environmental Science I*	.50	A			X	X	10
5502	Environmental Science II*	.50	A			X	X	10
5310	Forensic Science*	.50	A			X	X	10
5041	Human Biology/Lab*	1.25	H			X	X	10
5311	Marine Science & Oceanography*	.50	A			X	X	10
5013	Physical Science**	1.25	C	X				10
5012	Physical Science**	1.25	A	X				10
5042	Physics/Lab *	1.25	A				X	10
5031	Physics/Lab*	1.25	H			X	X	11
5291	Physics/Lab: AP*	1.50	AP				X	11
5412	Field Biology*	.50	A			X	X	22
5512	Intro to Eng. and Green Tech.*/**	.50	A			X	X	22
5612	Meteorology*	.50	A			X	X	22

*Prerequisite(s), **Corequisite

Key: H=Honors, A=Academic, C=Core, AP=Advanced Placement, PM=After School

COURSE #	COURSE	CREDIT	LEVEL	GRADES AVAILABLE	PAGE
BUSINESS AND FINANCE TECHNOLOGY				9 10 11 12	
6414	Accounting/Proprietorship	.50		X X X X	12
6415	Accounting/Partnership*	.50		X X X X	12
6416	Accounting/Corporate*	.50		X X X X	12
6417	Accounting/Corporate Advanced*	.50		X X X X	13
6430	Business and Consumer Law	.50		X X X X	13
6440	CWE*	1		X X X X	12
6441	CWE* (Work)	.25-1		X X X X	12
6420	Economics	1		X X X X	13
6460	Marketing	1		X X X X	13
FAMILY AND CONSUMER SCIENCES				9 10 11 12	
6310	Culinary Arts I	.50		X X X X	13
6311	Culinary Arts II*	.50		X X X X	13
6320	Exploring Childhood	.50		X X X X	13
6321	Exploring Childhood II*	.50		X X X X	14
6317	Interior Design	.50		X X X X	14
6312	International Cultures & Cuisine	.50		X X X X	14
TECHNOLOGY EDUCATION				9 10 11 12	
6226	Advanced Graphics*	1		X X X X	15
6217	Architectural Design	1		X X X X	14
6227	Animation*	1		X X X X	14
6215	Computer Design I	.50		X X X X	14
6216	Computer Design II*	1		X X X X	14
6235	Construction Tech	1		X X X X	14
6255	CTIA	.50		X X X X	15
6225	Graphic Communication	1		X X X X	14
6265	Information Systems	.50		X X X X	15
6236	Technological Enterprise	.50		X X X X	15
6245	Transportation Technology	1		X X X X	15
6221	Video Production I	.50		X X X X	15
6223	Video Production II*	.50		X X X X	15
6224	Video Production III*	.50		X X X X	15
ART				9 10 11 12	
6020	Ceramics & Pottery 1	.50		X X X X	16
6021	Adv. Ceramics & Pottery 2*	.50		X X X X	16
6022	Adv. Ceramics & Pottery 3*	.50		X X X X	16
6023	Adv. Ceramics & Pottery 4*	.50		X X X X	16
6027	Crafts I	.50		X X X X	16
6029	Crafts II*	.50		X X X X	16
6030	Drawing and Painting I	1		X X X X	16
6031	Drawing and Painting II*	1		X X X X	16
6061	Functional Design	.50		X X X X	16
6060	Fundamentals Of Art Design	1		X X X X	16
6010	Photography I	.50		X X X X	17
6011	Photography II*	.50		X X X X	17
6070	Printmaking I*	.50		X X X X	17
6040	Sculpture I	1		X X X X	17
6041	Sculpture II*	1		X X X X	17
6091	Studio Art* AP	1	AP	X X X X	17

*Prerequisite(s), **Corequisite

Key: H=Honors, A=Academic, C=Core, AP=Advanced Placement, PM=After School

COURSE #	COURSE	CREDIT	LEVEL	GRADES AVAILABLE				PAGE
				9	10	11	12	
MUSIC				9	10	11	12	
6123PM	Chamber Singers**	.50		X	X	X	X	17
6132PM	Chamber Orchestra**	.50			X	X	X	17
6121	Chorale*	1			X	X	X	17
6120	Concert Choir	1		X	X	X	X	17
6100	Concert Band	1		X	X	X	X	16
6101	Symphonic Band*	1			X	X	X	17
6103PM	JazzBand**	.50		X	X	X	X	17
6130	Orchestra	1		X	X	X	X	17
6141	Music History and Appreciation	.50		X	X	X	X	17
6140	Music Theory*	1		X	X	X	X	17
6191	Music Theory AP*	1	AP		X	X	X	17
THEATRE ARTS				9	10	11	12	
6501	Acting I	.50		X	X	X	X	17
6502	Acting II*	.50		X	X	X	X	18
6513PM	Acting in Production (1st sem.)	.50		X	X	X	X	18
6514PM	Acting in Production (2nd sem.)	.50		X	X	X	X	18
6511PM	Stagecraft in Production (1st sem.)	.50		X	X	X	X	18
6512PM	Stagecraft in Production (2nd sem.)	.50		X	X	X	X	18
HEALTH				9	10	11	12	
8026	First Aid and Personal Safety	.50			X	X	X	19
9015	Health	.25		X				19
9019	Quest	.25			X			19
8025	EMT	1.25				X	X	19
PHYSICAL EDUCATION				9	10	11	12	
9038	Lifeguard Training	.25				X	X	20
9016	Physical Education 9 "Foundations of Training"	.25		X				20
9017	Physical Education 10 "Health Related Fitness"	.25			X			20
9037	Physical Education 11 "Personal Fitness"	.25				X		20
9036	Physical Education 12 "Lifetime Wellness"	.25					X	20

*Prerequisite(s), **Corequisite

Key: H=Honors, A=Academic, C=Core, AP=Advanced Placement, PM=After School