

Program of Studies



**Portsmouth High School
2012-2013**

Portsmouth High School

Program of Studies

2012-13

FOREWORD

Portsmouth High School is a comprehensive high school and includes grades nine through twelve. It prepares students for liberal arts colleges, colleges and schools for technical and career training, as well as positions in business and industry for the world of work. In all areas, the instruction of students in American democracy is considered most important.

Parents are encouraged to visit the school. Only with their cooperation and assistance can the school render the best possible service to its students and to the community.

**Portsmouth High School
50 Andrew Jarvis Drive
Portsmouth, New Hampshire 03801
603-436-7100**

www.cityofportsmouth.com/school/phs/index.html

ACCREDITATION STATEMENT

Portsmouth 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:

New England Association of Schools and Colleges
209 Burlington Road
Bedford, Massachusetts 01730-1433
(617) 271-0022 • FAX (617) 271-0950

NOTICE OF NONDISCRIMINATION

The Portsmouth School Department does not discriminate on the basis of race, color, religion, marital status, national/ethnic origin, age, sex, sexual orientation, or disability in its programs, activities and employment practices. This statement is a reflection of the Portsmouth School Department and refers to, but is not limited to, the provisions of the following laws:

Titles IV, VI, and VII of the Civil Rights Act of 1964 – race, color, national origin
The Age Discrimination in Employment Act of 1967
The Age Discrimination Act of 1975
Title IX of the Education Amendments of 1972 (Title IX) – sex
Section 504 of the Rehabilitation Act of 1973 (Section 504) – disability
The Americans with Disabilities Act of 1990 (ADA) – disability
NH Law against discrimination (RSA 354-A)

The following individual has been designated to handle inquiries regarding the nondiscrimination policies and laws noted above including Section 504:

Joanne Simons, Director of Pupil Support
Portsmouth School Department
Clough Drive
Portsmouth, NH 03801
(603) 431-5080

Inquiries regarding Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and/or Title II of the Americans with Disabilities Act of 1990 also, or instead, may be directed to:

U.S. Department of Education
Office for Civil Rights
33 Arch Street, Suite 900
Boston, MA 02110-1491
(617) 289-0111, TTY (877) 521-2172

Additionally, inquiries may also be directed to the:

NH Commission for Human Rights
2 Chenell Drive
Concord, NH 03301-8501
(603) 271-2767

Equal Employment Opportunity
Commission (EEOC)
1 Congress Street, Room 101 10th Floor
Boston, Mass 02114
Tel. (617) 565-3200

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

The mission of the ESOL Program is to ensure that all English language learners are given an equitable, appropriate and academically challenged education. The lack of English language skills is not a barrier to participation in any courses and ESOL classes are credit bearing as noted on page 30.

VISUAL IMPAIRMENTS

Students and/or their parent or legal guardians who have visual impairments should contact the Office of the Principal for assistance in accessing information contained on the School Department web site or written other materials. Please call 436-7100, ext. 2912.

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MISSION STATEMENT

Portsmouth Schools' Mission Statement: "The purpose of the Portsmouth Schools is to educate all students by challenging them to become thinking, responsible, contributing citizens who continue to learn throughout their lives."

Portsmouth High School concurs with our district's statement and expands this mission to include the following:

Each student is capable of achieving his or her full potential while learning in a positive school environment. All facets of life at Portsmouth High School promote high academic achievement for every student. To accomplish our goals, we must:

- provide for diverse learning styles and needs;
- employ a variety of teaching styles, strategies, and methodologies;
- supply facilities, equipment, and materials that meet the present and future needs of our students and staff;
- incorporate technology into all classrooms.

We recognize that education is humanized through a variety of school experiences. PHS promotes a healthy and safe atmosphere to create a greater sense of community and an enhanced desire to learn. Consequently, this positive school culture helps students feel valued and connected to staff, each other, and the community. The involvement of family members and the establishment of community partnerships support strong academic expectations and respect for individuals.

We cultivate the belief that family and school are priorities. We prepare students to become citizens in a democratic society by incorporating real life experiences into instruction and by teaching the skills for making responsible choices. We encourage co-curricular activities that allow students to expand special interests, discover talents, and develop skills in competitive and non-competitive educational programs.

We believe that in accomplishing the goals set forth in this mission, our students will become successful members of society.

EXPECTATIONS FOR STUDENT LEARNING

Through the completion of a comprehensive education provided by Portsmouth High School, our graduates will have gained the knowledge, skills, and attitudes that foster an ability to:

ACADEMIC

- Understand that in order to achieve one's full potential, a student must commit to lifelong learning.
- Apply critical thinking skills and evaluate options to reach appropriate solutions.
- Prepare for, face, and accept life's challenges.
- Utilize technology as a tool for work, education, and enjoyment.
- Acquire an appreciation for the arts, humanities, and literature while understanding their relevance to everyday life.
- Implement strategies to improve and maintain physical and emotional well-being.
- Communicate effectively using oral and written expression.

- Acquire and apply scientific knowledge and methods.
- Use the knowledge and skills of the social sciences in order to understand and address contemporary problems and issues.
- Understand and apply mathematical skills and competencies.
- Apply academic, work-based, and/or vocational competencies in preparing for future careers.

SOCIAL

- Exhibit respect for self and others.
- Demonstrate a sense of responsibility for self, family, and community.
- Appreciate and take pride in work as a means of becoming a successful, contributing member of society.
- Create and maintain a healthy, safe, and positive environment.
- Recognize that family, school, and community are priorities.

CIVIC

- Practice responsible citizenship through an appreciation of the heritage and cultures of our society.
- Promote equality for all.
- Analyze and debate important issues using civil discourse.
- Exercise critical thinking and problem-solving skills through involvement and participation in civic issues.
- Practice respect for the rights and property of others.

GUIDANCE AND COUNSELING SERVICES

Through a comprehensive developmental guidance and school counseling program, counselors assist all students in their academic, personal/social, and career development. Counselors meet with students in classrooms, small groups, and individually. Personal and interpersonal as well as academic needs are considered of the utmost importance.

Emphasis is placed upon post-secondary planning. Early in the high school program, students are encouraged to investigate a variety of post-secondary opportunities consistent with their interest and aptitudes. Academic strengths and weaknesses are analyzed, and abilities and interests are discussed as the basis for career and educational decision making.

The Guidance Department utilizes Naviance, a web-based tool, in grades 9-12 to assist all students with the development of their personalized educational, career and post-secondary plans. Through Naviance students participate in a variety of future planning activities including a personality profile, a career interest inventory, career and college searches and the development of a resume. Parents are encouraged to log on to

their student's personalized Naviance site (<http://connection.naviance.com/portsmouthhs>) and to engage in discussions with their student regarding all future planning activities.

Students and parents are invited to use the services offered by the Guidance Department at any time during the school year.

IMPORTANT DEADLINES ARE COMMUNICATED TO STUDENTS AND PARENTS THROUGH EMAILS, SCHOOL ANNOUNCEMENTS, CLASSROOM MEMOS AND POSTERS.

GENERAL INFORMATION

The material contained in this booklet has been prepared to assist you in the selection of those subjects best suited to meet your needs and abilities. The program of each student is an individual matter to be planned by the home and the school. You and your parents are urged to consider carefully the information contained here.

The objective of the Program of Studies is to describe the content of individual course offerings and to provide assistance in planning a selection of these courses to meet the needs of each student.

Students are expected to consider carefully their academic background, interests, career and/or educational plans, and the recommendations of their parents, teachers, and guidance counselors as they choose their courses.

Course descriptions in this Program of Studies are organized alphabetically on a subject basis. Required subjects are listed on page 10. Subjects which are important for specific future plans, special interests, abilities or needs are offered as electives. Students should choose elective courses in keeping with their future plans, and should consult with parents, teachers, and guidance counselors to assist with this planning.

All courses offered at Portsmouth High School are available to both male and female students.

We hope that the description of subjects will answer your questions as to course content, that this pamphlet will prove helpful, and that you will make full use of the opportunities offered here.

Portsmouth High School operates on a 4 x 4 Block Schedule with some modified blocks during block 1.

POLICY ON COURSE SELECTION AND CLASS CHANGES

Careful planning by each student should result in an appropriate program for each school year. The course selection process requires that all students complete the course selection sheet with all required signatures.

For the remainder of the school year, students may make appointments to review their course selections with their guidance counselor. Any adjustments, whether based on second semester grades or on change of interests, should be made at this time. **Student initiated course changes**

will not be allowed after the beginning of any quarter. Course changes during any quarter will be made only upon the recommendation of a teacher or guidance counselor, and with phone contact or written approval of the parent.

Students may see his/her counselor to discuss adding or dropping a course prior to the start of that course. Any student initiated change requires a process involving the teacher, department head, parent, and counselor.

These procedures do not prevent school authorities from adjusting students' classes to produce an optimum learning environment.

GRADING SYSTEM

With the exception of 45 minute courses, credits are earned by the term. A half credit course meets for 45 days in 90 minute classes. A full credit course meets for 90 days in 90 minute classes. Students who pass only one term of a full credit course will receive a half credit. A 45 minute class meets for 90 days for a half credit and 180 days for a full credit.

Parent/guardians please note: Students are issued progress reports at the half way point of each quarter.

Report cards are issued after each term (four times during the year). Grades are recorded by letters which indicate the scholastic achievement of the student. The interpretation of these letters is as follows:

A+ - 98-100%	D - 72-74%
A - 95-97%	D- - 70-71%
A- - 93-94%	F - 0-69%
B+ - 90-92%	AU - Audit
B - 87-89%	P - Pass
B- - 85-86%	WP - Withdrew Pass
C+ - 82-84%	WF - Withdrew Fail
C - 79-81%	WM - Withdrew Medical
C- - 77-78%	TR - Transferred within Department
D+ - 75-76%	

HONOR ROLL

Highest Honors - All **A**'s, carrying at least three (1/2 credit) graded courses
 High Honors - **A**'s and **B**'s in any combination, carrying at least three (1/2 credit) graded courses (At least one "**A**".)
 Honors - All **B**'s, carrying at least three (1/2 credit) graded courses (A student may have one "**C**" if there is at least one "**A**" to balance it. Only one "**C**" is allowed.)
 Honor roll is determined by the term.

ATHLETIC AND EXTRA-CURRICULAR ACTIVITY ELIGIBILITY

All students must be enrolled in and attending three 90-minute blocks (or equivalent of three 90-minute blocks) of course time in the previous and present marking period to be eligible for athletics. Credits earned in summer school, independent studies, and any out-of-school programs do not apply to eligibility.

Student participants shall maintain good citizenship. Student participants must pass all classes in which they are enrolled and have no more than one grade of "D" based upon the latest term grades. In the case of all extra-curricular activities, unless otherwise mandated by New Hampshire Interscholastic Athletic Association (NHIAA) for athletics, students academically ineligible due to grades from the latest quarter may continue to practice and may regain eligibility to participate in games based upon a progress report that meets the eligibility standards.

COURSE LEVELS

In an effort to meet the individual needs of all students, required courses **are grouped according to difficulty.** Students are assigned to levels, grades 9-11, by assessment and/or teacher recommendation based on past performance. Please see the individual department sections for more information. The honors level and Advanced Placement (A.P.) courses require an application process described under Honors and A.P. courses.

The levels of difficulty are defined as follows:

BASIC/INTRODUCTORY - These courses are designed for students establishing basic skills in the content area. (Level I)

STANDARD - These courses are designed for students who wish to improve basic skills in the content area. Students will have the opportunity to prepare for future career/educational choices. Homework may be assigned regularly. (Level II)

COLLEGE PREP - These courses are designed for students who seek admission to two or four-year colleges or universities. Regular homework assignments will reinforce class instruction. (Level III)

ADVANCED COLLEGE PREP - These courses are designed for students who seek admission to competitive colleges or universities. Daily homework will be assigned. (Level IV)

HONORS AND ADVANCED PLACEMENT (A.P.) - These courses are designed to offer a very challenging educational environment for students who have shown high academic achievement in this discipline in the past. (Level V)

Placement at this level requires student application and acceptance by the faculty through a selective screening process. Honors and/or A.P. courses are offered in grades 9-12.

CLASS RANK AND PLACEMENT

Class rank is computed for each graduating class at the end of six semesters and a final class rank is computed after the third quarter of the senior year. An unweighted Grade Point Average (G.P.A.) is also computed starting at the end of grade 9.

The grade received in a class multiplied by the weight of that class equals the points earned toward class rank. Class rank is based on grades

received in all subjects. **A+**=4.33 points, **A**=4 points, **A-**=3.67 points, **B+**=3.33 points, **B**=3 points, **B-**=2.67 points, **C+**=2.33 points, **C**=2 points, **C-**=1.67 points, **D+**=1.33 points, **D**=1 point, **D-**=0.67 points, **F**=0 points.

Advanced College Prep classes will receive a weight of 4. Grades 9, 10, 11 Honors, A.P. classes and college credit courses will receive a weight of 5. All students in A.P. classes must take the A.P. exam to receive a weight of 5. For students who do not take the A.P. exam, the AP class will have a weight of 4.

HONORS AND ADVANCED PLACEMENT PROGRAMS

It is essential that students continue to challenge themselves to the best of their ability.

Freshmen: Candidates for honors must submit a completed application form. Application packets will be available in the early spring. The high school English and science departments will coordinate directly with sending schools.

Continuing honors students applying for sophomore or junior honors classes, or AP classes: If the student has a grade of B+ or higher at the end of the course, the student will only be expected to complete an abbreviated application.

If the student in an honors class has less than a B+ average, he/she must reapply, submitting all necessary elements to the application. If the student is accepted into the program, he/she will sign a contract explaining his/her responsibilities.

Students applying for the first time to sophomore, junior or AP classes: Students will submit a completed application form; these are available in the Guidance Office. In addition, English Honors or AP class applications require two pieces of writing and a list of books read in the last year, a copy of the most recent report card, and an essay explaining what they will contribute to the honors class. Prior to the deadline date, the current teacher will send a recommendation to the department chair at the high school.

Summer assignments: Honors and A.P. English, Social Studies, Science Spanish, French, and Calculus classes require summer assignments.

Notification of acceptance/non-acceptance: All students will receive a letter of acceptance or non-acceptance within one month of the deadline for admission.

Appeal process for all students who are not accepted into the program:** The student must appeal in writing requesting an appointment with the Appeals Committee by the stated deadline. Students will be notified in writing of the day and time of the appointment. At the meeting after school, the student will present his/her reasons and additional evidence to justify acceptance into the program. The student must arrange to have a teacher submit a letter of recommendation to the committee prior to the appointment. If the student is then accepted into the honors level class, he/she will sign a contract explaining his/her responsibilities. **You are encouraged to discuss the appeals process with your guidance counselor.

EXTENDED LEARNING OPPORTUNITIES

INDEPENDENT STUDIES

In order to request an independent study, a student must:

1. Have completed the highest level of study offered at PHS in that subject.
2. Meet with a teacher who agrees to be the advisor for the study.
3. Submit a description/course outline of the area to be studied to that teacher.
4. Follow through with the paperwork (Independent Study Form) which is available in guidance and which requires the signatures of the teacher, the department head, the principal, your parent and your guidance counselor.

The paperwork then goes to the student's counselor, who notes on the student's schedule the period during which the independent study will take place, including Period "5," meaning outside of the school day. All of these steps must be completed in order for an independent study to take place and receive credit.

All independent studies receive 1/4 credit and are not included in the student's GPA or class rank. No credit will be awarded retroactively.

A student involved in athletics must have at least three regular classes in addition to an independent study. An independent study does not count as one of the three courses towards athletic eligibility.

EARNING COLLEGE CREDIT AT PHS

Portsmouth High School provides dual enrollment opportunities for juniors and seniors to earn college credit while attending high school. PHS currently offers three Project Running Start courses through Great Bay Community College, Expository Writing, Introduction to Business, and Accounting. PHS also offers two courses through Southern New Hampshire University (SNHU) Dual Enrollment Program, Anatomy and Physiology and Culinary Arts. These college courses are offered at Portsmouth High School during the regular school day at a significant reduction in tuition. Successful students earn dual credit, meeting both high school and college requirements.

OUT-OF-SCHOOL CREDIT

In order to receive credit for an educational program not directly affiliated with Portsmouth High School, the following requirements must be met:

1. The request for credit must be made and approved BEFORE the program is begun.
2. The program must have a formal description including the number of hours, the syllabus, the assessment procedures and a contact person.
3. Portsmouth High School will award a minimum of 1/4 credit and a maximum of one credit regardless of the credit being awarded by the program.
4. No credit will be awarded until the student produces a formal assessment document at the completion of the program.

No credit taken before the student is registered at Portsmouth High School will be considered. The course will not be included in the student's GPA or class rank.

Virtual Learning Academy Charter School (VLACS) - is a New Hampshire accredited, on-line high school, free for New Hampshire residents. Students may choose to take elective courses through VLACS for Portsmouth High School credit. In order to receive PHS credit, students must follow **Out-of-School Credit** procedure. More information regarding VLACS elective courses can be obtained at www.vlacs.org. Students should speak with their guidance counselor for more information.

DRIVER EDUCATION

Driver Education is designed to teach basic driving skills, a knowledge of New Hampshire rules and regulations and a defensive driving attitude. Heavy emphasis is placed on seat belt use and drug and alcohol awareness.

Driver Education is offered after school or evenings. Summer classes are in the morning. During specific times during the year, students may register in the main office. The course is state approved and 1/4 credit is given upon successful completion.

Students must be 16 years of age by the completion of class. Students are selected by grade and age for the class. The class is taught by an outside of school company. There is a fee for the class.

CAREER CENTER

The CTE Career Center at Portsmouth High School provides services to all students interested in preparing and planning their futures. Any student may visit the Career Center to investigate careers, colleges, evaluate occupational interest and aptitude, and explore workplace opportunities. Services include:

- CTE Study Skills: Academic study and organizational skills course for students enrolled in 2-year or exploratory CTE courses. Course also incorporates all aspects of career and college planning.
- Seminar based activities: Collaboration units with Guidance and Academic Departments, career units for 2-year state sanctioned CTE programs, guest speakers from industry and recruitment tours of Career/Tech programs for grades 8-10.
- Career and college planning: Assessment testing and career interest inventories, career and college, college resume and financial aid/scholarship assistance.
- Career preparation: Resume, cover letter and job application assistance.
- Work-based learning activities and cooperative/work education programs (students may earn .50 credits per program per semester):

CTE Internships - Once a student has completed a full year of a CTE program and is enrolled in the second year of that program, a student may request to perform an internship within that field of study. The student must have the recommendation of their teacher. It is anticipated that the student has earned above average grades in the CTE program and has excellent attendance records. The student's discipline records will be taken into consideration.

Career Interest Internships - These internships are offered to non-CTE students who have taken all of the courses offered at PHS in preparation for a career field. A teacher and/or guidance counselor must refer students. It is anticipated that the student has earned above average grades in their career interest related courses and has excellent attendance records.

Cooperative Education - The Cooperative Education Program provides on-the-job experience that is supplemental to classroom

and laboratory instruction. To be eligible, a student must be enrolled in one of the following Career Technical Education Programs: Architecture, Automotive Technology, Business, Construction Trades, Culinary Arts, Drafting, Early Education, TV Production and/or Welding.

Work Education - The Work Education Program is designed for any student who requests credit for part-time employment and is not eligible for Cooperative Education credit. This experience is monitored and evaluated by school staff and employers. If performance is acceptable to the employer and coordinator, the student will earn .25 credits toward graduation for every nine weeks of successful work experience.

ADMISSION TO COLLEGE

College requirements vary, and each student must check the admissions requirements of the colleges to which he/she will apply.

The strength of a student's course load will be a factor in the college admissions process. Students planning to attend college should consult with their counselors and teachers for assistance in selecting courses which will help them achieve the desired results. The college counselor works closely with each guidance counselor on issues of college planning. The college counselor works individually with seniors and second semester juniors concerning future planning.

During the year, many college representatives visit Portsmouth High School. The dates of these visits are posted on Naviance, in Guidance, and in the College Center and are announced regularly. Interested students are encouraged to sign up in Guidance.

The following information can be used as a **guide** to the student who is interested in planning for post-secondary education.

*Guidelines for most four year colleges include a **minimum** of:*

- 4 credits of English
- 3 or more credits of Social Studies
- 4 or more credits of Mathematics
- 3 or more credits of Lab Science, including Biology and Chemistry
- 3 or more credits of a Foreign Language (Level III)

Guidelines for technical institutes and colleges:

- 4 credits of English
- 3 or more credits of Mathematics
- 3 or more credits of Science
- (2 credits in Technical/Career Education recommended)

Beginning on page 11 are sample schedules fulfilling the above requirements. Specific courses, especially electives, will vary for each student. Students should work closely with their guidance counselor during the scheduling process.

COLLEGE ENTRANCE EXAMINATIONS

The Portsmouth High School Guidance Department recommends the following sequence for standardized testing:

Sophomore Year:

Spring - PLAN (the **Practice** ACT) is offered at PHS in April.

Junior Year:

Fall - PSAT (the **Practice SAT**) is offered at PHS in October.
Spring - SAT Reasoning Test, offered at PHS in June and/or ACT, offered at area schools in June.

Senior Year:

Fall - SAT Reasoning Test, offered at PHS in October and December, and/or ACT offered at area schools in September and October. Some students will also be required to take SAT Subject Tests, offered at PHS in October and December.

Registration material for the SAT Reasoning Test, SAT Subject Tests and ACT are available in the Guidance Office. Students may obtain additional information from their guidance counselor or in the College Center.

FINANCIAL AID INFORMATION

Financial aid information is addressed at numerous Guidance information programs and may also be obtained in the Guidance Office. Students have the opportunity to apply for local scholarships as well as college-based financial aid. Local scholarships are announced in the winter each year, they are posted on Naviance and provided to seniors. It is the student's responsibility to seek appropriate information and meet required deadlines.

GRADUATION REQUIREMENTS

26 CREDITS ARE REQUIRED FOR GRADUATION		
English	4	credits
Social Studies	3	credits
Economics	1/2	credit
Mathematics	3	credits
Science	3	credits
Physical Education	1	credit
Computer Course	1/2	credit
Fine Arts Education (Drama, Music, Visual Arts Architecture, or TV Media)	1/2	credit
Health Education	1/2	credit
Electives	10	credits
Minimum to Graduate	26	

In addition to the above requirements, students must successfully earn the following minimum number of credits in order to achieve the status and privileges of the next grade:

- a minimum of **6 Credits** (must include freshman requirements) to be a **Sophomore**
- a minimum of **12 Credits** (must include sophomore requirements) to be a **Junior**
- a minimum of **18 Credits** (must include junior requirements) to be a **Senior**

FOUR YEAR PLAN

Use the sheets on pages 11-15 to plan a tentative four year program that will help you meet your educational and/or vocational objectives. Courses that are required during particular grades are written in for you. Remember, however, that you should include other requirements that are not required in specific grades.

Portsmouth High School Four-Year Education Plan

***FRESHMAN**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1		**		
2	Geography		Earth Science	Art
3	Physical Science		Math	
4	English 9		Physical Education	

***SOPHOMORE**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1		**		
2	Math		Ecology	Health
3	Biology		Computer	
4	English 10		American Studies I	

***JUNIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1		**		
2	Math		Science	
3	English 11		American Studies II Survey or Mini-courses	
4				

***SENIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1		**		
2	English 12		Social Studies Elective	
3	Economics			
4				

*Courses will not necessarily be scheduled where they are written in on this page. One square = 1/2 credit.
 **Block one could be a 90-minute course or divided into two 45 minute courses.

Portsmouth High School Four-Year Education Plan

EXAMPLE: Schedule for Highly Selective Colleges and Universities - Requirements vary college to college. It is essential that you meet with your guidance counselor to develop your four year plan.

***SOPHOMORE**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 10 Honors	American Studies I Honors		
2	Algebra II Honors	Algebra III Honors		
3	Biology Honors	Ecology Honors		Health
4	International Language III	International Language IV		

***FRESHMAN**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 9 Honors	Physical Education		
2	Algebra IX	Formal Geometry Fr.		
3	Physical Science Honors	Earth Science Honors	Geography	
4	International Language II	Computer Science	Fine Arts	

***JUNIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 11 Honors	Academic Elective or International Language IV		
2	Chemistry Honors	Precalculus Honors		
3	Advanced Placement American History	Social Studies Elective		
4	Advanced Placement Statistics	Economics		

***SENIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	Advanced Placement Course			Academic Elective
2	Advanced Placement Course			Elective
3	Advanced Placement Course			Elective
4	International Language V	Physics		

***Courses will not necessarily be scheduled where they are written in on this page. One square = 1/2 credit. **Block one could be one 90- minute course or divided into two 45-minute courses.**

Portsmouth High School Four-Year Education Plan

EXAMPLE: Schedule for Four Year Colleges and Universities - Requirements vary college to college. It is essential that you meet with your guidance counselor to develop your four year plan.

***SOPHOMORE**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	Elective	Elective	Elective	Elective
2	Formal Geometry	Ecology		Health
3	Biology	English 10		
4	International Language II	American Studies I		

***FRESHMAN**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 9	International Language I		
2	Geography	Computer Course	Algebra I	
3	Physical Science	Earth Science	Elective	
4	Fine Arts Course	Elective	Physical Education	

***JUNIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	Algebra II	Elective	Elective	
2	Economics	Elective	Chemistry	
3	International Language III	Elective	Elective	
4	English 11	American Studies II Survey or Mini-courses		

***SENIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	Elective	Elective	Service Learning	
2	Algebra III	Elective		
3	International Language IV	Social Studies Elective	Elective	
4	English 12	Science Elective(s)		

***Courses will not necessarily be scheduled where they are written in on this page. One square = 1/2 credit. **Block one could be one 90- minute course or divided into two 45-minute courses.**

Portsmouth High School Four-Year Education Plan

EXAMPLE: Schedule for Technical Institutes and Colleges

*FRESHMAN

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 9	Physical Education	Physical Education	Physical Education
2	Geography	Elective	Algebra I	Algebra I
3	Physical Science	Earth Science	Earth Science	Study Skills
4	Career/Tech Elective	Electricity	Computer Elective	Electronics

*JUNIOR

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 11	American Studies II Survey or Mini-courses	American Studies II Survey or Mini-courses	American Studies II Survey or Mini-courses
2	Applied Algebra II	Applied Chemistry	Applied Chemistry	Applied Chemistry
3	Career/Technical Program	Career/Technical Program	Career/Technical Program	Career/Technical Program
4	International Language II	Elective	Elective	Elective

*SOPHOMORE

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 10	American Studies I	American Studies I	American Studies I
2	Informal Geometry	Fine Arts Elective	Fine Arts Elective	Ecology
3	Biology	Health	Health	Elective
4	Career/Tech Elective	Career/Tech Elective	International Language I	International Language I

*SENIOR

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 12	Science Elective(s)	Science Elective(s)	Science Elective(s)
2	Career/Tech Elective	Career/Tech Elective	Career/Tech Elective	Career/Tech Elective
3	Career/Technical Program	Career/Technical Program	Career/Technical Program	Career/Technical Program
4	Social Studies Elective	Economics	Elective	Elective

*Courses will not necessarily be scheduled where they are written in on this page. One square = 1/2 credit. **Block one could be one 90-minute course or divided into two 45-minute courses.

Portsmouth High School Four-Year Education Plan

EXAMPLE: Schedule for Career Entry

*FRESHMAN

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 9	Physical Education	Physical Education	Physical Education
2	Geography	Computer Elective	Math	Math
3	Physical Science	International Language I	International Language I	International Language I
4	Elective	Elective	Career/Tech Elective	Earth Science

*JUNIOR

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	Math	Science	Science	Science
2	Math	Career/Technical Program	Career/Technical Program	Career/Technical Program
3	American Studies II or Mini-courses	English 11	English 11	English 11
4	American Studies II or Mini-courses	English 11	English 11	English 11

*SOPHOMORE

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 10	American Studies I	American Studies I	American Studies I
2	Math	Ecology	Ecology	Health
3	Advanced International Language I	International Language II	International Language II	International Language II
4	Biology	Career/Tech Elective	Career/Tech Elective	Career/Tech Elective

*SENIOR

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 12	Math/Science	Math/Science	Math/Science
2	Career/Technical Program	Career/Technical Program	Career/Technical Program	Career/Technical Program
3	Social Studies Elective	Economics	Fine Arts Elective	Computer Elective
4	Elective	Elective	Elective	Elective

*Courses will not necessarily be scheduled where they are written in on this page. One square = 1/2 credit. **Block one could be one 90-minute course or divided into two 45-minute courses.

Portsmouth High School Four-Year Education Plan

WORKSHEET

***FRESHMAN**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1				
2				
3				
4				

***SOPHOMORE**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1				
2				
3				
4				

***JUNIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1				
2				
3				
4				

***SENIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1				
2				
3				
4				

Course Descriptions...

Architectural Design

Students interested in pursuing careers in architecture, interior design, construction, engineering, computer modeling and graphic design would benefit from courses offered in the Architectural Design Program.

The Architectural Design Program combines manual drawing and modeling skills with high-tech computer design and presentation skills in order to prepare students for life in an ever changing technological society while maintaining the highest quality instruction and experiences specific to architectural design.

Architectural Design courses are conducted in a studio environment that replicates collegiate and industry design environments and exposes students to the variety and scope of skills, concepts and methods utilized in the creation of architecture. The studio environment individualizes each student's education in architectural design so that their talents, needs and interests relative to architecture are addressed and fostered. The student is the center of their education, working semi-independently on projects and the instructor facilitates and directs learning through individual conferences and critiques with the student.

Architectural Design courses may be taken to satisfy the Fine Arts and the Computer requirement. Students can earn a two-year completer certificate in Architectural Design.

**INTRODUCTION
TO ARCHITECTURE** **Grades 9, 10, 11, 12**
Course No. 881, 1/4 Year **.50 Cr**

Students in Introduction to Architecture will explore the concepts and techniques of architectural design and drafting through a variety of sketching, drawing and computer based activities. Emphasis is placed on developing architectural awareness by understanding the historical significance of architecture in their community and its influence on design in the 21st Century. Students will develop skills in the design process through the completion of a vacation home project for an environmentally conscious client.

3D INTERIOR DESIGN **Grades 9, 10, 11, 12**
Course No. 882, 1/4 Year **.50 Cr**

Prerequisite: Introduction to Architecture

3D Interior Design is a computer based course that offers students interested in interior design and interior architecture the opportunity to utilize 3D design software to create computer models of home design projects that provide photo-realistic 3D visualizations of home interiors. Learn how to customize a home's interior and turn ordinary spaces into extraordinary spaces with the use of custom interior architectural details and stylistic decor.

RESIDENTIAL DESIGN **Grades 10, 11, 12**
Course No. 886, 1/2 Year **1.00 Cr**

Prerequisite: Introduction to Architecture

Students in Residential Design will continue to develop their skills in computer design and the application of architectural design standards and conventions with the design of a residential structure. Each student will develop a building program that meets the needs of today's family and use 3D design software to proceed from conceptual design and computer modeling through the design and development of floor plans, elevations and presentation drawings.

MODELMAKING **Grades 10, 11, 12**
Course No. 887, 1/2 Year **1.00 Cr**

Prerequisite: Residential Design

Architects build models to evaluate form and space and to communicate design ideas to clients throughout the design process. Architectural plans use two-dimensional drawings to represent three-dimensional structures. A model provides a physical three-dimensional object to hold and look at from all angles and helps provide clarity to the two-dimensional drawings. Architectural modelling is a hands-on course that will teach students the techniques for building a variety of scaled architectural models.

DESIGN STUDIO **Grades 11, 12**
Course No. 898, 1/2 Year **1.00 Cr**

Prerequisite: Residential Design

Today's architects and designers use the traditional skills of sketching, model-making and computer design to address contemporary issues in 21st century architecture. A focus on green/sustainable design is prevalent in the application of design solutions in an environmentally conscious world. Student projects will incorporate this 21st century approach to environmentally sensitive design solutions using traditional architecture skills.

Design Studio is meant to serve as a culminating course that allows students the opportunity to; put into practice all of the skills and knowledge gained in previous courses, demonstrate their analytical abilities and creativity in solving design problems; and gain further experience in communicating design ideas using scale drawings and models.

*The Design Studio course may be taken more than once for those students who want to continue to refine and expand their skills in architectural design.

Architectural Design

ENGINEERING DRAWING & DESIGN

The engineering design process is a series of steps used by engineers to develop new products. Engineering drawings are the primary means by which engineers record and communicate ideas and convey technical information. The ability to understand and create engineering drawings is paramount to anyone interested in engineering and technical careers.

ENGINEERING DRAWING 101 Grades 9, 10, 11, 12
(Formerly Mechanical Drafting A)
Course No. 876, 1/4 Year .50 Cr

Accurately representing a three-dimensional object onto a two-dimensional sheet of paper is the essence of what a draftsman does. Students are introduced to a wide assortment of drawing views and pictorials used to communicate information in the engineering world. Mini-engineering projects will introduce students to the engineering design process.

ENGINEERING DRAWING 201 Grades 9, 10, 11, 12
Course No. 877, 1/4 Year .50 Cr

Prerequisite: Engineering Drawing 101

This course builds upon the knowledge and skills gained in Engineering Drawing 101 with the introduction of computer-aided design. Students learn skills in 3D solid modeling and 2D view creation to produce technical drawings that communicate design ideas and support all aspects of the engineering design process. An engineering design project will further introduce students to the engineering design process.

ENGINEERING DESIGN Grades 10, 11, 12
Course No. 878, 1/2 Year 1.00 Cr

Prerequisite: Engineering Drawing 201

Students participate in individual and team projects that focus on the engineering design and development process. Student activities include problem analysis, conceptual design, prototype construction, design testing and analysis, redesign, and design presentation. Computer-aided design, oral, written, and graphic communication, and project management skills are emphasized throughout the course.

Automotive Technology

This National Automotive Technicians Education Foundation (NATEF) certified program features a curriculum that is recognized throughout the industry. The curriculum is designed to equip students with basic skills for entry-level employment and for continuing education. This program also provides opportunities for articulation with post-secondary schools. The instructor is certified by the National Institute for Automotive Service Excellence (ASE), which is the same certification required for post-secondary occupations with emphasis placed on a career as an automotive technician. Diagnostic and repair skills, safety and employment skills are taught in keeping with the automotive technology competencies required by today's automotive industry. A course of study that includes two-years of formal mathematics (algebra and geometry), and one year of Applied Physics is recommended.

At the end of the two-year program, students will receive a Certificate of Completion of a NATEF certified program and may choose to enter the work arena or to continue their automotive studies at the post-secondary level.

CAR CARE FOR EVERYONE Grades 9, 10, 11, 12
Course No. 905, 1/4 Year .50 Cr

This new class from the Automotive Technology Program is intended for any student, male and female, who owns or drives a car. Geared toward the average consumer, this course will teach you everything you need to know about your car in order to keep it in tiptop shape and performance level. In nine weeks you will learn the ins and outs of car ownership from how to purchase a car to dealing with roadside emergencies and everything in between. Never again feel uninformed! Change your own oil, check your own fluids, and change your own tires. Learn it all from the experts!

AUTOMOTIVE PRINCIPLES Grades 9, 10, 11, 12
Course No. 906, 1/4 Year .50 Cr

An introduction is provided in the fundamental principles of automotive systems. Hydraulic, pneumatic, electric, and mechanical systems will be explored as they relate to automotive operations. Students will learn what service and maintenance a modern vehicle requires through related theory and laboratory experience with emphasis on shop manuals, safety and tools. This course is recommended prior to taking Automotive Technology I.

AUTOMOTIVE TECHNOLOGY I Grades 10*, 11, 12
Course No. 907, All Year 2.00 Cr

In the first year of the Automotive Program, students will learn the operations and servicing of automotive components in the NATEF/ASE certified areas. Emphasis will be placed on safe working procedures, basic hand tools, power tools and special equipment. The Automotive laboratory provides working conditions similar to those encountered in the world of work.

AUTOMOTIVE TECHNOLOGY II Grades 11*, 12
Course No. 908, All Year 2.00 Cr

The second year of the Automotive Program emphasizes actual working conditions with curriculum related repair work. Students will demonstrate acquired skills in several areas: automotive electricity/electronics, steering and suspension, brakes, and job estimating.

*With permission from Instruction.

Building Technology

Building Technology is a program comprised of woodworking, civil engineering, and construction courses. This program provides students an opportunity to acquire entry-level skills for employment as well as entry into college and apprenticeship programs. The program offers practical experience enabling each student to identify with the many aspects of building and construction industries such as: property management and development, residential and commercial construction, carpentry, civil engineering, environmental and landscape design.

"Built with Clipper Pride" is more than a slogan. It is the essence of all that is created and done throughout each and every Building Technology course!

INTRODUCTION TO WOODWORKING Grades 9, 10, 11, 12
Course No. 856, 1/4 Year .50 Cr

Learning the fundamentals of woodworking and safe tool techniques provides learners with a set of skills that will last throughout their lifetime. This hands-on course engages individuals in designing, planning, and creating small to medium sized projects. Perhaps the most important skills learned include problem solving, time management, and completing projects to the highest possible level of quality. All woodworking students have the opportunity to help on community service projects.

WOODWORKING DESIGN Grades 9, 10, 11, 12
Course No. 857, 1/4 Year .50 Cr

Prerequisite: Introduction to Woodworking

This is an advanced level course that expands the knowledge and experience from Introductory Woodworking to create more sophisticated projects. The focus is on learner centered projects that emphasize highest quality finished products. Students prepare comprehensive plans to design and create works of art and fine craftsmanship. Time management and project tracking are developed to increase skill sets that are useful in all subject areas and become relevant to life-long learning.

CIVIL ENGINEERING Grades 9, 10, 11, 12
Course No. 861, 1/4 Year .50 Cr

Students discover the variety of large-scale projects throughout the community and region. Civil Engineering students research and build proportional and scale models of projects such as bridges, tunnels, dams, skyscrapers, and domes. Throughout the course, students are familiarized with basic civil engineering terms, construction methods, and project management. Students create a classroom peer-review planning commission wherein each learner describes and explains their chosen project before they commence with construction of their model.

CONSTRUCTION IA Grades 10*, 11, 12
Course No. 867A, 1/2 Year 1.00 Cr

Learning the fundamentals of construction and safe tool techniques provides learners with a set of skills that will last throughout their lifetime. This hands-on course engages students in the design, planning, and creation of group projects that are small to medium sized. Foundations of all aspects of building will be covered.

CONSTRUCTION IB Grades 10*, 11, 12
Course No. 867B, 1/2 Year 1.00 Cr

Prerequisite: Construction IA OR Woodworking and Civil Engineering

Important job skills learned in this class include problem solving, time management, cooperation and teamwork while completing tasks to the highest possible level of quality. OSHA safety regulations are incorporated into day-to-day activities. Students have the opportunity to learn how buildings are constructed and are introduced to the variety of skills and jobs in the construction industry.

CONSTRUCTION TRADES IIA Grades 11*, 12
Course No. 868A, 1/2 Year 1.00 Cr

Prerequisite: Construction IA and IB

All aspects of building projects are tied together in this second year of the program. Floors, walls, and roof framing take shape and are enhanced with siding, windows, doors, and trim. Students have a command of the vocabulary and procedures needed to design and create traditional building projects from framing to finish work. Students have the opportunity to calculate and order the materials needed for a project and may choose to serve as project manager.

CONSTRUCTION TRADES IIB Grades 11*, 12
Course No. 868B, 1/2 Year 1.00 Cr

Prerequisite: Construction IIA

In this last semester of the two-year, state sanctioned Building Technology program, good work ethic and work habits will be emphasized. Time management and logistical leadership opportunities provide real-world experience that is crucial to future careers. Students completing this course will earn a certificate of program completion and an OSHA 10-Hour Construction Card.

*With permission from the instructor.

Business

The business courses are designed to assist students in developing an appreciation for the complexities and inner workings of the business world. Students planning to study business topics in college or those planning to enter the workforce will benefit from these courses by understanding how businesses operate and the basic components of entrepreneurship.

INTRODUCTION TO BUSINESS **Grades 11, 12**
Course No. 835, 1/2 Year **1.00 Cr**

***College Credit Available through Project Running Start**

This is an introductory course designed to provide students with a basic understanding of the structures and operations of business and an awareness of social and ethical responsibility as it relates to the environment, consumers, employees, and investors. An appreciation of the global economy will also be explored.

ACCOUNTING **Grades 11, 12**
Course No. 832, 1/2 Year **1.00 Cr**

***College Credit Available through Project Running Start**

Prerequisite: Introduction to Business

This course will prepare students to understand the language of business that is accounting. Students will study owner's equity, assets, liabilities, revenue and expenses. Students will study journalizing transactions, preparing a trial balance, accounting adjustments, closing entries, inventory, accounts receivable and payable, special journals, payroll, cash receipts, disbursement and banking procedures.

SMALL BUSINESS MANAGEMENT **Grades 11, 12**
Course No. 825, 1/2 Year **1.00 Cr**

Prerequisite: Introduction to Business and Accounting Recommended

This course will prepare students to develop a small business concept. An introduction to the concepts and skills to develop a viable business plan along with entrepreneurial skills will be studied. Management functions of planning, organizing, leadership, staffing, decision-making and communicating will be reviewed.

PERSONAL FINANCIAL MANAGEMENT **Grades 10, 11, 12**
Course No. 338 1/4 Year **.50 Cr**

Prerequisite: Algebra I or Algebra B with a "C" or better

This course is designed to help the student enter the world of adulthood with financial information that will help to lead them to financial security. The course will stress budgeting, banking, credit, investing, and consumer education.

Additional Business Offerings: Additional offerings in Business may be taken on-line via the Virtual Learning Academy. Courses available:

- **Introduction of Marketing**
- **Introduction of Entrepreneurship I**

Students interested in exploring this option should contact their Guidance Counselor for more information.

***College Credit - Project Running Start:** Introduction to Business and Accounting students will have the opportunity to participate in the Project Running Start program and earn three college credits through the Community College System of New Hampshire. There is a fee for earning college credit.

Computer Science

All students must successfully complete a minimum of one-half credit of computer science or computer-related coursework to graduate from PHS. A computer-related course is any course such as an Architecture course in which the student uses a computer at least half of the time.

WEB PAGE DESIGN **Grades 9, 10, 11, 12**
Course No. 671, 1/4 Year **.50 Cr**

NOTE: This course is intended for computer savvy students.

Students will learn basic web design, including topics such as: content, accessibility, layout, navigation, color, typefaces, and graphics using HTML, XHTML, and CSS. Graphics and animations will be made using Adobe Photoshop, Fireworks, and Flash. Students will explore digital citizenship issues including copyright law, citing sources, avoiding plagiarism, and practicing internet safety. Client web sites will be published online.

COMPUTER GRAPHICS **Grades 9, 10, 11, 12**
Course No. 672, 1/4 Year **.50 Cr**

Students will learn about the elements of art and principles of design. A design notebook will be kept, and reading and writing assignments will explore graphic design concepts and challenges. Adobe Photoshop and Adobe Illustrator will be used to design, manipulate, process, and edit original photographs and illustrations. Emphasis will be placed on communication and collaboration with real-world clients to solve design challenges. A digital portfolio will be created by each student and published online.

ADVANCED GRAPHICS AND WEB DESIGN **Grades 9, 10, 11, 12**
Course No. 673, 1/4 Year **.50 Cr**

Prerequisite: Web Page Design and Graphic Design

Students will use tools to create and manipulate specialized, web-based graphics through the use of Adobe Fireworks and Flash. As they learn a web design program, Adobe Dreamweaver, students will also implement the appropriate processes required for web-site development. The final projects will require students to publish a portfolio web site as well as design and publish a web site for a client.

PROGRAMMING I - INTRO TO WRITING INTERACTIVE GRAPHIC APPLICATIONS **Grades 9, 10, 11, 12**
Course No. 674, 1/4 Year **.50 Cr**

NOTE: This course is intended for computer savvy students.

Students will learn and apply the fundamental concepts of programming in a variety of languages. Students will

learn how to design and create programming solutions to problems in several application areas including games. Emphasis is placed on writing programs using correct programming technique in Integrated Developer Environments including BlueJ, Flash, and Scratch.

COMPUTER ANIMATION I **Grades 9, 10, 11, 12**
Course No. 676, 1/4 Year **.50 Cr**

Students will learn about the principles of animation, create animations to show their understanding of each principle of animation, and explore historical methods of making animations. A variety of animation software, storyboards, time lines, sound tracks and imported graphics will be used. Students will work individually and in groups to create several animations that will be published online.

INTRODUCTION TO MUSIC TECHNOLOGY USING APPLE'S "GARAGEBAND" **Grades 11, 12**
Course No. 679, 1/4 Year **.50 Cr**

Students are introduced to the various hardware and software components located in the music technology lab. Using Apple's "Garageband" combined with midi-controllers from "M-Audio" and a fully networked keyboard lab, students will learn how to electronically compose, edit, record and mix their own musical creations. Students will also learn the basics of "podcasting" as a means to share their work with a larger virtual audience. While a musical background is not a prerequisite, it is certainly beneficial. Students who successfully complete this course would be eligible for independent study consideration in advanced recording utilizing the various school concerts as source material. Space permitting, grades 9 and 10 may be considered per permission of instructor. Course may be taken to satisfy computer or fine arts requirement.

iOS APP DESIGN AND DEVELOPMENT **Grades 9, 10, 11, 12**
Course No. 680, 1/4 Year **.50 Cr**

NOTE: This course is intended for technology savvy students with some prior programming experience.

In this class, students will use Cocoa or Objective-C, the iOS programming language, in Xcode, the Mac developer platform, to learn and apply knowledge of syntax, libraries, and best practices in designing and coding an iOS app. Emphasis will be placed on designing unique apps using fundamental iOS design patterns and techniques, data modeling, developing an intuitive user interface, utilizing iCloud storage, and performance optimization.

Culinary Arts

The Food Service industry is an exciting, dynamic and rewarding field that offers a variety of opportunities. The two year program offers a broad range of curriculum based learning activities as well as practical experience in cooking, baking, and related restaurant functions. Students completing the program will be prepared for either immediate employment and/or the continuance of their education in a Culinary Arts or Food Service Management school. Valuable additional experience may be gained through the Cooperative Education program.

Students considering food service as a career are encouraged to take at least two years of mathematics, biology, chemistry, and the appropriate communication courses. Accounting, management, and Spanish or French are also valuable courses to take for this career. Students earn a two-year certificate upon completion of the program and have completed service safe training.

CULINARY ARTS I **Grades 10*, 11, 12**
Course No. 837, All Year **2.00 Cr**

Culinary Arts I is the first of a two year program designed to teach proficiency in fundamental skills required for a career in the food service industry. Content areas covered will include: sanitation, workplace safety, industry vocabulary, hot and cold food techniques and preparations, introduction to baking and pastry techniques, cost control and an introduction to career occupations. Employability skills including punctuality, professionalism, personal hygiene, ability to work as part of a team, and ability to follow instructions are an important focus of the course.

CULINARY ARTS II **Grades 11*, 12**
Course No. 838, All Year **2.00 Cr**

This course is the second year of a two-year program designed to apply the skills acquired in Culinary Arts I in the production of food in a practical setting. Greater emphasis will be placed on learning and reinforcing advanced skill competencies in all areas of the curriculum including: principles of cooking methods, baking and pastry arts, ServSafe® certification, cost control, nutrition, plate presentation and flavor profile analysis. Career and educational opportunities in the food service industry will be explored in greater detail.

Students enrolled in Culinary Arts II are eligible for a dual enrollment opportunity with Southern New Hampshire University earning three (3) college credits upon successful completion of the two-year program.

***With permission from the instructor.**

Early Education

The Early Education program provides entry level skills for the world of work and an educational experience for students contemplating a career as a teacher, classroom assistant or any occupational area that focuses on children, e.g. child therapist, pediatrician, social worker, or nurse.

The program offers practical experience at the Little Clipper Children's Center in which classroom instruction is applied in a real situation. The program also offers students completing a two year sequence of studies a certificate illustrating their respective competencies in the occupational field of Early Childhood Education as well as CPR training.

EARLY CHILDHOOD DEVELOPMENT **Grades 9, 10, 11, 12**
Course No. 845, 1/4 Year-1st or 3rd Qtr. **.50 Cr**

Caring for children is one of the most rewarding and frustrating experiences. It is a major responsibility which requires preparation. This course will provide information on prenatal development, normal growth, and development of infants and toddlers. Birth defects, guidance, discipline and playing with children are also covered. "Baby Think it Over" is a realistic doll which each student will take home to experience parenting.

PARENTING AND FAMILIES TODAY **Grades 10, 11, 12**
Course No. 846, 1/4 Year-2nd or 4th Qtr. **.50 Cr**

This course enables students to examine the diversity of families, the roles and responsibilities of parenting, parenting methods, communication skills and understanding how families are an integral part of our community. Guest speakers, field trips, research and writing projects covering parenting issues help students to understand the importance of a healthy family and parent.

EARLY EDUCATION I **Grades 10*, 11, 12**
Course No. 847, All Year **2.00 Cr**

This teacher-training program is designed to blend classroom learning with actual work in a preschool setting. Early Education students are assigned on a rotating schedule to work in the Little Clipper Preschool. Students learn how to develop, implement and evaluate lesson plans for the preschool children. The classroom curriculum encompasses all aspects of early childhood instruction and includes units in health, nutrition, safety, art, language arts, writing, and math. Prior to entering the preschool, students must prepare a week of age appropriate lesson plans that will interest and challenge the children.

EARLY EDUCATION II **Grade 11*, 12**
Course No. 848, All Year **2.00 Cr**

This class is the second year of the Early Education Program. Students are given greater responsibility for the day-to-day workings of the Little Clipper Preschool. In addition to developing lesson plans, the curriculum includes planning field trips, guest speakers, special celebrations, and parent conferences. The high school students learn to establish a relationship with parents to involve them in different areas of their child's education. Some Early Education II students choose to spend one semester completing an internship at a local elementary school, Portsmouth Early Education Program or a local preschool.

Completion of this program provides opportunities for articulation with post-secondary schools.

Membership in FCCLA (Family, Career and Community Leaders of America) is an integral component of the Early Education Program.

***With permission from the instructor.**

English

Students must complete one credit of English during each school year.

Basic English - These courses are designed for students establishing basic skills in English. (Level I)

Standard English - These courses are designed for students who wish to improve reading, writing, speaking, and listening skills. Students will have the opportunity to prepare for future career/educational choices. Homework may be assigned regularly. (Level II)

College Prep English - These courses are designed for students who seek admission to two or four-year colleges or universities. Regular homework assignments will reinforce class instruction. (Level III)

Advanced College Prep English - These courses are designed for students who seek admission to competitive colleges or universities. Daily homework will be assigned. (Level IV)

Honors English - See description of Honors English Program on page 24.

ENGLISH 9 Grade 9 Required

The freshman program, which explores the theme of "Celebration of the Individual," emphasizes literary genres and a varied writing agenda, the center of which is the writing process.

Writing Component
1/4 Year .50 Cr

The writing component of freshman English involves the study of the writing process as students begin their four-year PHS portfolios. Students will learn various methods of pre-writing, as well as drafting, revision strategies, editing techniques, and conferencing skills. Much of the writing done in grade 9 is creative in nature, and students begin to find their own voice in writing. Students are expected to share their work with the class. Grammar and language skills will be addressed through student writing. Greek roots and prefixes will also be studied.

Literature Component
1/4 Year .50 Cr

The literature component of freshman English includes a broad overview of the genres: novel, short story, drama, poetry, essay. Selections range from classical works to contemporary pieces. Works of various authors from around the globe will be studied. Emphasis is on understanding and enjoyment of literary works and on basic critical analysis. Appropriate skills such as word study and understanding of some basic literary concepts complement the study of the selections.

ENGLISH 10 Grade 10 Required

The sophomore program explores the topics of loyalty, human nature and compassion as students concentrate on world literature with British components. Writing includes both narrative and expository modes.

Writing Component
1/4 Year .50 Cr

Writing is an important part of the sophomore English program. Narrative and expository skills are strengthened through various creative and research assignments. Grammar study reinforces the mechanics, usage, and variety of sentence structure appropriate to assigned writing.

Literature Component
1/4 Year .50 Cr

The literature component of sophomore English includes analysis of the major genres through reading important world authors, with a special emphasis on British and world writers. The goals are enjoyment, understanding, and further development of critical skills. Vocabulary study includes words derived from Latin and more advanced terminology to discuss literature.

ENGLISH 11 Grade 11 Required

The junior program, which explores the theme of "Rights and Responsibility," focuses on American literature and persuasive writing.

Writing Component
1/4 Year .50 Cr

The writing component of junior English places increasing emphasis on expository skills and the development of written argument. The literary essay is studied as well as practical writing forms. The grammar study focuses on selective review of mechanics and usage and introduces more complex syntactic structures.

Literature Component
1/4 Year .50 Cr

Works studied in the literature term are almost exclusively American. The approach is usually chronological with emphasis on major authors of each literary period. Word study continues, but the emphasis in skills development is on aspects of critical analysis.

HONORS ENGLISH PROGRAM Grades 9, 10, 11 1.00 Cr

Students entering grades 9, 10, or 11 may apply for Honors English. This program is designed for students who have ability well beyond grade level and who desire

English

more advanced work in the English area. Honors English students cover more material, work at a faster pace, and function more independently than other students at the same grade level. They must be ready for in-depth analysis of complex literature and have a strong foundation in writing. An excellent work ethic and a strong commitment to the program, as well as a passion for reading and writing, are essential.

In order to adequately prepare for Honors English during the summer prior to the course, students are required to read designated selections and do specific writing assignments. This work is not to be done in collaboration with others. **Summer work must be postmarked by dates announced at the spring meeting. Incoming freshmen will bring their completed summer work to freshmen orientation. Students who do not complete their summer work will receive a zero.**

Candidates for Honors English must submit a completed application form. Application packets will be available in early spring. No applications will be accepted after due date. Each student's completed application package will be reviewed by a panel of Portsmouth High School English Department faculty. Notification of acceptance will occur by early April.

ENGLISH 12 Grade 12 Required — See Below

The following listings are half-credit courses. In order to receive one (1) full credit for English 12, students must select two courses to be taken during their senior year. **It is recommended that students take one writing and one literature elective.**

If a student wishes to take a third English course, he/she must do so through a Guidance conference. These additional courses will then be scheduled on a space available basis - and only after all other scheduling has been completed. Only seniors receive required senior English credit.

LEVEL I & II COURSES

Creative Writing	Science Fiction*
Grammar and Writing Skills	The Hero's Quest
Real World English	

These courses are recommended for students who may need reinforcement in English Language Arts skills. Through varied reading and writing assignments, teachers will concentrate on the improvement of the four areas of language study -- reading, writing, speaking, and listening. Through these courses, students will have the opportunity to make themselves competitive for future career/educational choices.

Writing Electives

GRAMMAR AND WRITING SKILLS Grade 12 Course No. 142, 1/4 Year .50 Cr

Grammar and Writing Skills is recommended for seniors who wish to strengthen their knowledge of grammar and basic sentence structure. Spelling, punctuation, capitalization, agreement, and usage are studied with a view toward improvement of basic writing skills.

CREATIVE WRITING Grade 12 Course No. 162, 1/4 Year .50 Cr

Students will work to improve skills while receiving individual instruction using the Writing Process. The various genres will be taught and extended projects will be undertaken, but emphasis will be on daily journals, weekly writing assignments, and include a term project.

Literature Electives

REAL WORLD ENGLISH Grade 12 Course No. 152, 1/4 Year .50 Cr

This course is for students who want to learn the English skills often needed outside the classroom. They will learn to read and understand legal and workplace documents, such as rental agreements, loan applications, warranties, and job applications. They will also learn to understand advertising and how to "read between the lines." In addition, to be better able to detect and avoid them, students will study scams, including those done at home, on the telephone, and on the Internet.

THE HERO'S QUEST Grade 12 Course No. 172, 1/4 Year .50 Cr

Most fictional heroes go on quests or journeys that follow a pattern that is found in hero myths around the world. In this course, students will explore how this pattern still exists in today's short stories and films. They will also examine the role of the hero in society past and present, as well as why these stories are so widespread and still commonly used. Using this pattern, students will write a short story, show how it is found in other short stories and films, and will come to understand how this pattern fits into their own lives.

SCIENCE FICTION Grade 12 Course No. 182, 1/4 Year .50 Cr

The objective of this course is to teach students about humankind, society, and themselves through the genre of science fiction. Some issues to be discussed will be prejudice, the misuse of technology, and the effect of the present on the future. We will explore these through

English

reading established as well as up-and-coming science fiction authors, primarily in short stories. As a supplement to these readings, we will watch some well-known science fiction films, along with a few cult classics. To demonstrate their learning, students will, among other things, write their own science fiction short story and have the opportunity to produce a hands-on project. *Students may contract for Level 3 the first day of class.

LEVEL III COURSES

Debate	Journalism
Film Studies I	Literature of Music
Holocaust Studies	Public Speaking

These courses are recommended for students who seek admittance to two or four-year colleges or universities. Regular homework assignments will reinforce class instruction. These courses allow students to pursue areas of language study which expand upon the traditional English curriculum.

Writing Electives

DEBATE *Grades 11, 12*
Course No. 180, 1/4 Year *.50 Cr*

Want to improve your confidence, assertiveness, public speaking, persuasive ability, and listening skills? Learn to be a confident and effective debater. This course will teach the various facets of debating including the modes of persuasion, research, reasoning, and the art of the cross examination. Students will participate in formal debates concerning a new category of controversial topics each week. Debates will be conducted between individuals as well as groups with audience questions and critique to follow. Juniors may take this course as an elective in addition to the required English 11 course. When taken by juniors, this course does not fulfill the senior English requirement. **Students may contract for Level IV the first day of class.**

JOURNALISM *Grades 9, 10, 11, 12*
Course No. 173, 1/4 Year *.50 Cr*

This course is an introduction to journalism with an emphasis on news, feature, sports, and editorial writing. Other concepts covered include press law, layout and design, and newspaper ethics. Journalism is open to all students. Underclassmen may take this course in addition to their English requirement.

PUBLIC SPEAKING *Grades 11, 12*
Course No. 193, 1/4 Year *.50 Cr*

This course will present specific techniques that will help students learn the skills needed to become confident

public speakers in many different situations. Students will deliver a variety of speeches. Juniors may take this course as an elective in addition to the required English 11 course. When taken by juniors, this course does not fulfill the Senior English requirement.

Literature Electives

FILM STUDIES I *Grade 12*
Course No. 153, 1/4 Year *.50 Cr*

Learn to "read" a film as confidently as you read print media. Understand how technology and a creative director can shape both what you see and what you think as you watch a film. Students in this course will study films in a variety of categories, including foreign films, "golden oldies," and modern classics. Selected papers and projects as well as student produced films will provide opportunities for exploring new ideas about film. Juniors may take this course as an elective in addition to the required English course. When taken by juniors, this course does not fulfill the Senior English requirement.

HOLOCAUST STUDIES *Grades 11, 12*
Course No. 163, 1/4 Year *.50 Cr*

This interdisciplinary 1/2 credit course will be offered jointly through the English and Social Studies departments to juniors and seniors. Seniors may take this course to fulfill .50 required English credit. Juniors may take this course for elective credit.

Through various pieces of literature, students will explore how the Holocaust impacted teenagers and their families immediately prior to and during WWII. Students will also view films connected with the Holocaust in order to better understand how both Holocaust victims and the general population of Europe were affected by Nazi doctrine. Students will connect their own pieces of writing with the literature and films in order to have a better understanding of this profound time period during the 20th Century. When taken by juniors, this course does not fulfill the Senior English requirement.

LITERATURE IN MUSIC *Grade 12*
Course No. 150, 1/2 Year *1.00 Cr*

Students will study historical music literature by first focusing on traditional English folk ballads, Civil War tales, and African American spirituals. The course will proceed chronologically to consider lyrics by twentieth century artists such as Woody Guthrie, Chuck Berry, Bob Dylan, John Lennon, Joni Mitchell, and Paul Simon. Studies will conclude with an examination of the literature currently found in rap music and hip hop. Works by poets and novelists such as Alan Ginsberg, Sylvia Plath, James Baldwin, Gwendolyn Brooks, Jack Kerouac, and Joyce Carol Oates will be studied as a companion to the music lyrics. Additionally, all literature will be considered within

English

the context of historical events. Students will be required to complete a significant amount of outside work in order to be successful in the course.

LEVEL IV COURSES

British Literature	Mythological and Biblical Allusions
Creative Writing-Adv.	Research Skills
Film Studies II	Senior Seminar/Capstone Project
The Literary West: Myth and Reality	Shakespeare Short Story and Poetry

These courses are recommended for students who seek admittance to competitive colleges or universities. Weekly writing assignments and/or major projects will be expected. Nightly homework assignments will reinforce class instruction.

Writing Electives

CREATIVE WRITING - ADVANCED *Grade 12*
Course No. 144, 1/4 Year *.50 Cr*

The purpose of this course is to develop further narrative and descriptive skills which have already been established in the first three years through English courses. Students selecting this course should be seriously interested in developing their ability to write clearly and concisely, emphasizing vivid word choice and effective use of comparisons, including analogies, metaphor, and similes. Logical development of plot, character, and theme will be emphasized as well as experimentation with most genres. Students will complete a term project. Individuality will be encouraged, but not to the detriment of discipline. This course is not suggested for students weak in grammar, spelling, and punctuation skills.

RESEARCH SKILLS *Grades 10, 11, 12*
Course No. 184, 1/4 Year *.50 Cr*

Learn how to choose and narrow topics, prepare an outline, utilize research tips, take appropriate notes, and write organized drafts. Learn the relationship of grammar, style, and mechanics to effective papers. Use of the Internet with regard to research, documentation, and the ethics involved will be an integral part of the course. Students in grades 10 and 11 may select this course in addition to the required English 10 or English 11 course. Students will write a ten page research paper and give an extensive oral presentation. When taken by sophomores or juniors, this course does not fulfill the Senior English requirement.

SENIOR SEMINAR/CAPSTONE PROJECT *Grade 12*
Course No. 185, 1/4 Year *.50 Cr*

Senior Seminar is an individualized learning experience in which students demonstrate proficiency in the Portsmouth High School graduation requirements. Students select a topic of personal and academic interest and create an essential question that focuses the project. Students will read published works on their subject, write a research paper, and create a presentation on their project. Much of the work is done independently with the help of an instructor.

Literature Electives

BRITISH LITERATURE *Grades 11, 12*
Course No. 174, 1/4 Year *.50 Cr*

This course explores the unique literary world of the British Isles. The focus ranges from earliest times to the 20th century and includes major works as well as short stories and poetry. Authors to be studied may include John Donne, William Blake, William Shakespeare, Charlotte Bronte, Jane Austen and Charles Dickens. Weekly response papers, nightly reading assignments, an independent research paper, visual project and class presentation will be required. When taken by a junior, this course does not fulfill the senior English requirement.

FILM STUDIES II *Grade 12*
Course No. 154, 1/4 Year *.50 Cr*

Prerequisite: Grade of B or higher in Film Studies I

This course is a continuation of Film Studies I. We will build on the concepts introduced in Film Studies I through the study of national cinemas (e.g. American, French, German, and Japanese), directors (e.g. Bergman, Fellini, Hitchcock, Kurosawa), and genres (e.g. Silents, Noir, Western, Detective, literary adaptations). We will view films primarily from historical, critical, and creative perspectives. Students will screen films, discuss techniques, and make films themselves. Students will complete several papers and projects.

THE LITERARY WEST: MYTH AND REALITY *Grades 11, 12*
Course No. 186, 1/4 Year *.50 Cr*

This course will explore the unfolding identity of the West in 19th and 20th Century America, with a particular emphasis on Native American Literature and Poetry. Writings and films to be studied and analyzed include works by Larry McMurtry, Louise Erdrich, Mark Twain, James Fennimore Cooper, Elaine Goodale Eastman (*Sister to the Sioux*), Zane Grey, Louis L'Amour, Charles Frazier, Kent Nerburn (*Neither Wolf nor Dog: On Forgotten Roads with an Indian Elder*), excerpts from Dee Brown's *Bury My Heart*

English

at *Wounded Knee*, as well as historic primary documents by Sitting Bull, Geronimo, Crazy Horse, and Chief Joseph. Weekly response papers, nightly reading assignments, an independent research paper, visual project and class presentation will be required. When taken by juniors, this course does not fulfill the senior English requirement.

MYTHOLOGICAL AND BIBLICAL ALLUSIONS **Grade 12**
Course No. 164, 1/4 Year **.50 Cr**

This course will offer the opportunity to study those figures and stories from the *Bible* and Greek and Roman mythology commonly referred to in modern Western literature. The objective is to increase cultural literacy in college-bound students. Readings will include mythological and biblical stories, as well as modern poetry, short stories, and novel excerpts. An independent research and visual project will be required. When taken by juniors, this course does not fulfill the Senior English requirement.

SHAKESPEARE **Grade 12**
Course No. 194, 1/4 Year **.50 Cr**

In this course students will examine William Shakespeare's cultural impact and the ongoing importance of his literature in our lives. Students will study four plays from genres as diverse as comedy and tragedy, as well as selected sonnets. Coursework will focus on theorizing various interpretations of his plays and character motivations by analyzing sub-text. The course will also touch upon Elizabethan history and the societal conditions that helped form Shakespeare's work. Students will explore Shakespeare's use of poetic and dramatic devices, improve their understanding of Shakespeare's English, grow to appreciate Shakespeare's works as performance art, and analyze universal themes present in the literature. Weekly papers, nightly reading, individual and group projects, and active participation are required.

SHORT STORY AND POETRY **Grade 12**
Course No. 148, 1/4 Year **.50 Cr**

This course will present a variety of short stories, both contemporary and classic, for analysis and appreciation of styles and themes. Poetry for analysis offers students an opportunity to study the significance, techniques, and the beauty of poetry, both ancient and modern. Emphasis will be placed on reading poetry for enjoyment through understanding. Students will write both poetry and a short story. A variety of projects will be assigned throughout the term. When taken by juniors, this course does not fulfill the Senior English requirement.

ADVANCED PLACEMENT COURSE

ADVANCED PLACEMENT ENGLISH **Grade 12**
Course No. 195, 3/4 Year **1.5 Cr**

Candidates for AP English must submit an application form which includes a recommendation from the student's current English teacher, samples of the student's writing, and a photocopy of the student's most recent report card. Each student's completed application package will be reviewed by a panel of Portsmouth High School English Department faculty. Notification of acceptance will occur in the late spring. Summer work must be postmarked by dates announced at the spring meeting.

Advanced Placement English is a literature-intensive course which emphasizes the development of skills in close reading, literary analysis, critical thought, and in writing the analytical essay. Course content will focus on major literary works as well as short stories and poetry from the classical to the modern period including multi-cultural works. Representative selections include: Shakespeare's *King Lear*, Irving's *A Prayer for Owen Meany*, O'Brien's *The Things They Carried*, Ellison's *Invisible Man*, and Stocker's *Dracula*.

COLLEGE CREDIT COURSE

EXPOSITORY WRITING (PROJECT RUNNING START) **Grade 12**
Course No. 197, 1/2 Year **1.00 Cr**

This is a college-level course offered in conjunction with Great Bay Community College. Students earn both high school and college credit for this Expository Writing course. Students should be prepared for extensive reading and writing. The course focuses on rhetorical principles and their impact on effective writing. Emphasis will be placed on concepts such as topic selection, audience, purpose, and style. In addition, students will write a comprehensive term paper. Readings in support of these concepts will be an integral part of the course. The ACT/Asset assessment test is given at the high school. This is required of any student enrolled in this course. The cost to enroll in a Running Start course is \$100, plus books. This represents a substantial savings in college tuition costs. Summer work must be post marked by dates announced at the spring meeting.

E.S.O.L.

Family and Consumer Science

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES **Grades 9, 10, 11, 12**
Course No. Assigned by Counselor **.50 Cr./Qtr**

English for Speakers of Other Languages (E.S.O.L.) is offered to students whose primary language is not English. Generally these students have recently come to the United States. The course content develops an awareness of the United States - from its geography, cultures and people, to current issues and problems. The objective of the course is to facilitate growth in spoken and written English. Students may earn a maximum of 2 Credits.

See Page 23 for complete descriptions:

EARLY CHILDHOOD DEVELOPMENT **Grades 9, 10, 11, 12**
Course No. 845, 1/4 Year-1st or 3rd Qtr. **.50 Cr**

PARENTING AND FAMILIES TODAY **Grades 10, 11, 12**
Course No. 846, 1/4 Year-2nd or 4th Qtr. **.50 Cr**

See Page 35 for complete description:

PERSONAL FINANCIAL MANAGEMENT **Grades 10, 11, 12**
Course No. 338 1/4 Year **.50 Cr**

See Page 30 for complete description:

RELATIONSHIPS **Grades 10, 11, 12**
Course No. 804, 1/4 Year **.50 Cr**

See Pages 40 and 41 for complete descriptions:

PHYSICAL EDUCATION I **Grade 9**
Course Nos. 781, 1/4 Year **.50 Cr**
782, 1/4 Year **.50 Cr**

Required

ADVANCED PHYSICAL EDUCATION **Grades 10, 11, 12**
Course No. 786, 1/4 Year **.50 Cr**

STRENGTH TRAINING **Grades 10, 11, 12**
Course No. 787, 1/4 Year **.50 Cr**

STRENGTH BUILDING FOR ATHLETES **Grades 10, 11, 12**
Course No. 788, 1/4 Year **.50 Cr**

FITNESS AND LIFETIME ACTIVITIES **Grades 10, 11, 12**
Course No. 789, 1/4 Year **.50 Cr**

PROJECT ADVENTURE **Grades 11, 12**
Course No. 795, 1/4 Year **.50 Cr**

PROJECT ADVENTURE II **Grades 11, 12**
Course No. 796, 1/4 Year **.50 Cr**

SPORTS MEDICINE I **Grade 11, 12**
Course No. 799, 1/4 Year **.50 Cr**

SPORTS MEDICINE II **Grade 11, 12**
Course No. 800, 1/4 Year **.50 Cr**

Additional Family and Consumer Science Offerings: Additional offerings in Family and Consumer Science may be taken on-line via the Virtual Learning Academy. Course available:

- **Fitness Lifestyle Design**

Students interested in exploring this option should contact their Guidance Counselor for more information.

Health

Interdisciplinary Studies

HEALTH STUDIES I
Course No. 802, 1/4 Year

Grades 10, 11, 12
.50 Cr.

One-half credit of health studies is a requirement for graduation set forth by the NH Board of Education (Ed.306.40). Health is a nine week course offered primarily to tenth grade students and those students transferring into the district that have not yet met the health course requirement. The course is intended to help students obtain information, acquire skills, and examine attitudes conducive to the formation of positive health behaviors throughout their lives. The course design is aligned with the district health curriculum's tenth grade benchmarks.

RELATIONSHIPS
Course No. 804, 1/4 Year

Grades 10, 11, 12
.50 Cr.

Prerequisite: Health Studies I

This course explores healthy relationships, including values, skills and how people interact with each other. Issues that affect relationships, such as sexual decision-making, substance use, power-sharing, and other topics will be explored through classroom discussions and learning activities.

SERVICE LEARNING
Course No. 961, 1/2 Year

Grades 11, 12
1.00 Cr

Prerequisite: Transportation with required insurance

Would you enjoy offering your time and talents to your community helping make a difference in peoples lives? Students have described Service Learning as: "The act of expanding your mind and thoughts, to be open to learning, absorbing willingness to take challenges with responsibility. Working to help people build knowledge and acquire self-esteem, to give a positive outlook and attitude to others. To commit yourself to teach and be taught, to take hold of new experiences." This **semester long course** will involve three days of hands on volunteering at a community site combined with two days in the classroom reflecting on project work, and studying the concept of service and it's impact on our society. Students will also be responsible for organizing and implementing two community based group service projects. The choice of a service learning site reflects your own personal goals and interests. Among the sites chosen by students in the past are: local elementary schools, Sexual Assault Support Services, the Senior Center, New Heights, Strawberry Banke, and other **non-profit** organizations. While at your site you will be working closely with your site supervisor, developing relationships with employees there and exploring possible future careers. Course requirements include a portfolio of the work done at the community site, a field research paper, journal entries, classroom reading and writing assignments.

STUDENTS MUST PROVIDE THEIR OWN TRANSPORTATION WITH THE APPROPRIATE INSURANCE COVERAGE OF 100,000/300,000/100,000.

International Languages

SPANISH III
Course No. 515, 1/2 Year

Grades 9, 10, 11, 12
1.00 Cr

Prerequisite: Grade of B or better in Spanish II

With continued emphasis on personal expression, both oral and written, this course will review previously taught grammar and introduce new concepts. The student's knowledge of present and past tenses will be expanded. Classes are conducted in Spanish. Tapes and pod casts of native speakers will be used to reinforce comprehension and students continue to improve their writing skills as they peer edit, use draft writing and complete individual writing compositions. Participation, homework and written work are integral roles in student assessment.

SPANISH IV
Course No. 518, 1/2 Year

Grades 10, 11, 12
.1.00 Cr

Prerequisite: Grade of B or better in Spanish III

In Spanish III a balanced sequence of speaking, listening, reading and writing continues. The curriculum is designed to expand knowledge of Spanish grammar and to explore culture more deeply. Readings will include excerpts from literature, authentic newspaper sources and cultural readings designed to emphasize the different aspects of a variety of Spanish-speaking countries. Classes are conducted in Spanish with a continued stress on oral participation. Student participation is mandatory as students' grades are based on class participation, written work, and projects.

SPANISH V
Course No. 521, 1/2 Year

Grades 10, 11, 12
1.00 Cr

Prerequisite: Grade of B or better in Spanish IV

This course is designed to meet the needs of the more serious Spanish student and develops the student's ability to read with comprehension and develop a personal style in writing. This class serves as a preparation for Spanish AP and therefore is grammatically intense. Writing assignments vary from reflective essays to essays that synthesize information from various sources. Students are assessed on their oral performances, written work, projects and reading comprehension.

Our International Languages Department provides basic through advanced instruction in French, Latin and Spanish. We use a proficiency model in teaching modern languages. Students concentrate on communication in speaking and writing in levels one and two, reading skills are developed in level three and integration of all skills is the focus of level three through the advanced grammar and literature classes. Through the contrast and comparison of language, students develop critical thinking skills. The ability to communicate with the people of other cultures is important as American society becomes increasingly multi-cultural and multi-lingual and as our economy becomes more dependent on global trade. The study of another language offers the opportunity to profit in the increasing number of careers available in the international arena.

Advancement to the next level will be based on teacher recommendation.

In order to insure a smooth transition and to provide support for those students seeking a solid base before continuing, the department offers a Summer School session which meets during the scheduled summer school at Portsmouth High School. Our summer school functions like a tutorial, where students of all levels seeking support can work with help from the instructor. This session is **RECOMMENDED** for students receiving a C- who wish to continue.

SPANISH I
Course No. 505, 1/2 Year

Grades 9, 10, 11, 12
1.00 Cr

Spanish I helps students to develop basic communication skills in reading, listening, speaking and writing. Visuals and comprehension. Active participation is necessary for development of oral skills. Quizzes, tests, orals and other assessments are given regularly. Continuous review is encouraged. Unit tests check cumulative knowledge. Compositions and orals as well as a written assessment comprise the midterm and final exams.

SPANISH II
Course No. 512, 1/2 Year

Grades 9, 10, 11, 12
1.00 Cr

Prerequisite: Grade of C+ or better in Spanish I

Spanish II focuses on continued development of oral and written skills. In pairs, groups or individually students participate by describing events asking and answering questions or preparing presentations. Students are responsible for writing more detailed compositions. Tapes, pod casts or presentations by native speakers develop further comprehension. Student participation is a priority. Success in the course is in direct proportion to participation and preparation.

International Languages

ADVANCED PLACEMENT

SPANISH LANGUAGE

Grades 11, 12
1.50 Cr

Course No. 525, 3/4 Year

Prerequisite: Spanish IV or V, or the teacher's permission

A teacher recommendation and student self-evaluation must be completed prior to entrance in A.P.

Advanced Placement Spanish Language is a course that focuses on reading, speaking, and grammatical structures that enhance understanding the language. The reading selections are from current material provided by A.P. Placement sources, and authentic selections from periodicals and newspapers published in Spanish-speaking countries. Every lesson has a cultural component, taking the students deeply into the language-culture connection.

The book, *Triangulo*, is used as well as *Abriendo Paso, Una vez mas, Lecturas Avanzadas* (Aamsco) as well as current grammatical practice texts published by Baron's. Students will constantly practice and review, delving into the details of the language. Students will prepare speaking tapes, and practice reading and writing responses to tapes.

SPAIN: Then and Now

Grades 10, 11, 12
.50 Cr

Course No. 579, 1/4 Year

Prerequisite: Grade of B or better in Spanish III or above and/or teacher recommendation

This is a new course offered to committed Spanish students who wish to explore the country of Spain, the language and the culture. The class is entirely in Spanish, with glimpses of history, cultural connections and explorations to the "New World", and nuances of the language. We will explore the culture of Spain today as well, drawing comparisons from the past and from other nations. A project takes the place of a final exam.

FRENCH I

Grades 9, 10, 11, 12
1.00 Cr

Course No. 532, 1/2 Year

This course presents the basic principles of listening, speaking, reading and writing. The teacher speaks French as often as possible to initiate student participation. CD's and videos are used to further listening and speaking development. Written homework is assigned daily. Quizzes and tests on grammar structures and vocabulary are given regularly. Oral participation in class is necessary to further one's speaking skills. All four components are part of the final exam.

FRENCH II

Grades 9, 10, 11, 12
1.00 Cr

Course No. 538, 1/2 Year

Prerequisite: Grade of C+ or better in French I

Advanced French I strengthens the skills acquired in French I with more advanced principles of grammar and increased vocabulary development. French is used almost exclusively in class. Students use present, past and future time in their oral activities and written work. Besides being required to participate in class, students present skits and short oral presentations before the class in French. CD's and videos develop further comprehension. Students at this level begin writing short, controlled compositions. Quizzes and tests are given regularly. Written homework is assigned daily.

FRENCH III

Grades 9, 10, 11, 12
1.00 Cr

Course No. 541, 1/2 Year

Prerequisite: Grade of B or better in French II

In French II the student's listening, speaking and writing skills are strengthened by varied types of oral and written work. The class is taught in French. To reinforce comprehension, CD's and videos are used with comprehension activities. Student participation in class is necessary for development of oral skills. Three new tenses will be learned.

FRENCH IV

Grades 10, 11, 12
1.00 Cr

Course No. 544, 1/2 Year

Prerequisite: Grade of B or better in French III

In French III a balanced sequence of oral comprehension, speaking, writing and reading is stressed. There will be a revision of all tenses. The subjunctive tense will also be introduced. CD's are used to further listening and speaking development. Classes are conducted in French with continued stress on oral participation. Student participation is mandatory and students' grades are based on written work and class participation.

FRENCH V

Grades 10, 11, 12
1.00 Cr

Course No. 547, 1/2 Year

Prerequisite: Grade of B or better in French IV. This is a fast-paced class that will review grammar adding a few additional points.

In this course listening and speaking skills are strongly developed. Continued use of CD's is necessary to reinforce comprehension. The student's ability to read easily with direct comprehension is also emphasized. French history and culture are also studied. Class participation is of the utmost importance and a significant percentage of the student's grade is based on this.

International Languages

ADVANCED PLACEMENT

FRENCH LANGUAGE

Grades 11, 12
1.50 Cr

Course No. 546, 3/4 Year

Prerequisite: French IV or V, or the teacher's permission

A teacher recommendation and student self-evaluation must be completed prior to entrance in A.P.

Advanced Placement French Language is a course that focuses on reading, speaking, and grammatical structures that enhance understanding the language. The reading selections are from current material provided by A.P. Placement sources, and authentic selections from periodicals and newspapers published in Francophone countries. Every lesson has a cultural component, taking the students deeply into the language-culture connection.

The book, *Triangle* is used as well as current grammatical practice texts published by Baron's. We use selected readings from the AP Literature texts. Students will constantly practice and review, delving into the details of the language. Students will prepare speaking tapes and practice readings and writing responses to tapes.

LATIN

Nothing else tells as much about a civilization as its language. Words and how they are arranged capture the substance and style of a people. The civilization that was Rome lasted 1229 years and the ultimate goal of Portsmouth's Latin curriculum is to study the greatness of the Romans through their words about themselves.

LATIN I

Grades 9, 10, 11, 12
1.00 Cr

Course No. 550, 1/2 Year

An introduction to the Latin Language through basic grammar and vocabulary as well as simple readings about Roman Culture and History. Homework will not ordinarily exceed 30 minutes a night. Recommended for college bound students who want to strengthen verbal, organizational, and thinking skills.

LATIN II

Grades 10, 11, 12
1.00 Cr

Course No. 553, 1/2 Year

Completion of Latin Grammar as well as further vocabulary, complemented by various readings including excerpts from *Ulysses*. Homework will not ordinarily exceed 30 minutes a night.

LATIN III Tales of the Wild West

Grades 10, 11, 12
1.00 Cr

Course No. 557, 1/2 Yr

Readings based on Livy's *Early History of Rome* showing how the Romans, like us, grew from being the humble subjects of kings to the strongest republic in the world. Homework will not ordinarily exceed 35 minutes a night.

ADVANCED LATIN PROSE

Grades 11, 12
1.00 Cr

Course No. 560, 1/2 Year

This course is offered in alternating years from Latin Poetry.

What caused Rome to shift from being a republic to having one man rule? Some challenging translation of Julius Caesar. A chance to read the Latin comic book *Asterix*. A sidebar about the role of law courtesy of *Njal's Saga*. Homework will not ordinarily exceed 40 minutes a night.

ADVANCED LATIN POETRY

Grades 11, 12
1.00 Cr

Course No. 563, 1/2 Year

This course is offered in alternating years from Latin Prose.

Epic struggles will be based on the Trojan War with translation from Virgil's *Aeneid* and the reading of Homer's *Iliad* and *Odyssey*. Personal struggles will be based on Catullus' love poems. Homework will not ordinarily exceed 40 minutes a night.

CHINESE

CHINESE I

Grades 9, 10, 11, 12
1.00 Cr

Course No. 580, 1/2 Year

This course introduces students to Chinese language and culture through speaking, listening, reading, writing, hands-on activities and films. Designed for students without previous training in Chinese, this course is conducted through aural-oral practice in meaningful contexts of the fundamental vocabulary and grammar of Mandarin Chinese. Reading and writing in Romanization (pinyin) and in Chinese characters. More characters and grammar will be introduced in Chinese II and III.

CHINESE II

Grades 9, 10, 11, 12
1.00 Cr

Course No. 581, 1/2 Year

Prerequisite: Grade of C+ or better in Chinese I

This is a continuation of Chinese I or for students who have achieved the equivalent from elsewhere. With 400-600 characters learned in Chinese I, this course will be conducted entirely in Chinese, with work on listening comprehension, speech, reading, and writing of Chinese characters, with increasing attention to reading contemporary Chinese texts.

CHINESE III

Grades 10, 11, 12
1.00 Cr

Course No. 582, 1/2 Year

Prerequisite: Grade of B or better in Chinese II

This class is a continuation of Chinese II or for students who have achieved the equivalent from elsewhere. With over 800 characters learned in Chinese I and II, this course will be conducted entirely in Chinese, with work on listening comprehension, speech, reading, and writing of Chinese characters, with daily attention to reading contemporary Chinese texts such as newspapers and television news.

Mathematics

The goal of teaching mathematics in the Portsmouth School District is to develop in students the value and enjoyment of mathematics. Students must be able to reason and communicate mathematically, have confidence in their mathematical skills, use math to make informed decisions in their daily life, and see themselves as mathematical problem solvers. In solving problems, students must be able to question the reasonableness of a solution, be flexible, persevere, and take risks. Students must have these skills to adapt to the changing needs of the 21st Century.

Guidelines:

- All students must pass three units of mathematics in order to graduate.
- A grade of "C" or better is strongly recommended before electing the next level course.
- All students should consult with teachers and counselors concerning course selection.
- Honors sections are offered in Algebra II, Algebra III, Precalculus. Also offered are A.P. Calculus and A.P. Statistics.
- Students must apply for admission to honors and A.P. Courses.

Recommended math sequences:

Sequence I	Sequence II
Applied Algebra A	Algebra I/Algebra IX
Applied Algebra B	Formal Geometry
Informal Geometry	Algebra II
Applied Algebra II	Algebra III
	Precalculus
	Calculus

Sequence I is designed to provide a course of study for those students who find math challenging. Successful completion of this sequence will fulfill college entrance requirements.

Sequence II is for students who are strong math students who may plan to have a math/science major.

EXPLORING MATH Grades 9, 10
Course No. 302, All Year 1.00 Cr Math

Exploring Math is a full-year program designed for the student who could benefit from a course that explores an overview of the mathematics classes available at PHS. The course is designed to review the foundations of fractions, decimals, and percents as the students are given an introduction to other mathematical topics. The ideas of geometry, algebra, probability and statistics will be taught while basic skills are reviewed.

APPLIED ALGEBRA A Grades 9, 10, 11, 12
Course No. 315, 1/2 Year 1.00 Cr

In this course the student will cover the material of the first half of an Algebra I course. The student will learn problem solving skills, calculator skills, the properties of algebra, the order of operations, the rules of integers, methods of solving linear equations, and graphing. These concepts and a review of arithmetic skills will be taught with the emphasis on real life applications.

APPLIED ALGEBRA B Grades 9, 10, 11, 12
Course No. 318, 1/2 Year 1.00 Cr

Any student who has successfully completed Applied Algebra A is eligible to take this course. In this class, the student will cover material from the second half of Algebra I and apply it. Students will review material covered in Applied Algebra A, while investigating new topics. The course will cover graphing, systems of linear equations, probability, data analysis, exponents, and different types of equation solving. Students can not receive credit for both Algebra B and Algebra I.

ALGEBRA I Grades 9, 10, 11
Course No. 332, 1/2 Year 1.00 Cr

An understanding and application of the structure and principles of algebra, designed for the student who has mastered the operations and properties of rational numbers and is preparing for a three to four year program in mathematics. The course is structured to cover the following topics: algebraic expressions, formulas, equations, inequalities, exponents, and a variety of real world problems. Students can not receive credit for both Algebra B and Algebra I.

ALGEBRA IX Grade 9
Course No. 336, 1/2 Year 1.00 Cr

This course is designed for the student who had Algebra I in the 8th grade. The goal of this course is to reinforce the basics of Algebra I, and to cover in more depth the concepts of exponents, quadratics, factoring, and rational expressions and equations. The student will develop a solid basis in algebra and gain confidence in his/her ability to use mathematics to solve problems. From this course the students should enter Freshmen Formal Geometry and then Algebra II.

Mathematics

PERSONAL FINANCIAL MANAGEMENT Grades 10, 11, 12
Course No. 338 1/4 Year .50 Cr

Prerequisite: Algebra I or Algebra B with a "C" or better

This course is designed to help the student enter the world of adulthood with financial information that will help to lead them to financial security. The course will stress budgeting, banking, credit, investing, and consumer education.

INFORMAL GEOMETRY Grades 10, 11, 12
Course No. 341, 1/2 Year 1.00 Cr

Prerequisite: Algebra I or Algebra B

Informal Geometry is a course for the student who has successfully completed Algebra I or Algebra B. It is designed to be an intuitive course in which the concepts of symmetry, congruence and similarity are developed with emphasis throughout on metric relationships of geometry and reinforcement of algebraic techniques. The approach to teaching the nature of proof and geometric reasoning is realistic and practical. Informal Geometry or Formal Geometry will satisfy the requirement for admission to many post-secondary schools as an academic math course.

FORMAL GEOMETRY Grades 10, 11, 12
Course No. 344, 1/2 Year 1.00 Cr

Prerequisite: Algebra I with a "C" or better or Applied Algebra B with a "B" or better

Formal Geometry is offered as a preparation for Algebra II. A solid foundation in algebra is recommended as a prerequisite for this course. Reasoning is stressed and logical conclusions are arrived at through the deductive process. The writing of proofs is stressed to enable the student to see and appreciate the structure, and orderly arrangement of mathematics. A student can not receive credit for both Informal and Formal Geometry.

FRESHMEN FORMAL GEOMETRY Grade 9
Course No. 353, 1/2 Year 1.00 Cr

Prerequisite: Algebra IX

Freshmen Formal Geometry is offered as a preparation for Honors Algebra II. A solid foundation in Algebra IX is recommended as a prerequisite for this course. Reasoning is stressed and logical conclusions are arrived at through the deductive process. The writing of proofs is stressed to enable the student to see and appreciate the structure, and orderly arrangement of mathematics. Freshmen Formal

Geometry is a rigorous, fast-paced geometry meant for the student thinking of applying to the honors mathematics program. A student can not receive credit for both Informal and Formal Geometry.

APPLIED ALGEBRA II Grades 10, 11, 12
Course No. 362, 1/2 Year 1.00 Cr

This is a half year course for the student who has passed an Algebra I and a Geometry course with average success and may require review and/or additional development in these areas. Basic algebra skills will be reinforced while being introduced to quadratic equations. These skills will be in conjunction with the further development of geometry and algebra concepts while emphasizing connections between these courses.

ALGEBRA II Grades 10, 11, 12
Course No. 367, 1/2 Year 1.00 Cr

Prerequisite: Algebra I and Geometry

In this course, the basics of algebra are reinforced and new concepts are introduced. Linear, quadratic, exponential, and logarithmic equations will be studied. The student will apply these concepts and solve a variety of problems. A grade of "C" or better in previous math courses is recommended before electing to take Algebra II.

SOPHOMORE ALGEBRA II Grades 10
Course No. 370, 1/2 Year 1.00 Cr

Prerequisite: Algebra IX and Freshmen Formal Geometry

In this course, the basics of algebra are reinforced and new concepts are introduced. Linear, quadratic, exponential and logarithmic equations will be studied in more depth. The student will apply these concepts and solve a variety of real world problems. This course is for the student that enjoyed the pace of Algebra 1X and is planning to take Algebra III in the same year.

ALGEBRA III Grades 10, 11, 12
Course No. 377, 1/2 Year 1.00 Cr

Prerequisite: Algebra II

Algebra III is the continuation of the study of mathematics with the focus on rational functions, conics, trigonometry, and sequences. This course following the Algebra II curriculum will provide the necessary foundation for further study in the area of mathematics. A grade of "C" or better in Algebra II is recommended before electing Algebra III.

Mathematics

PROBABILITY AND STATISTICS **Grades 12**
Course No. 388, 1/2 Year **1.00 Cr**

Prerequisite: Algebra II

Probability and Statistics is a course for any student who has successfully completed Algebra II. Any student interested in careers in business, social sciences, and math-science related fields would benefit from taking this course. In this course students will be introduced to the basics of statistical methods. Students will gain an understanding of how to collect data, interpret data, and develop an understanding of how statistical hypotheses are made and tested. Topics to be covered are organization of data, measures of central tendency, probability distributions, populations, hypothesis testing, sampling and experimental design.

PRECALCULUS **Grades 11, 12**
Course No. 383, 1/2 Year **1.00 Cr**

Prerequisites: Algebra III with a "C" or better

Precalculus is designed as a continuing course for the student who has demonstrated better than average success in Algebra III and Geometry and seeks to prepare for Calculus. Precalculus will cover topics including functions, graphing, exponents, logarithms, trigonometry, sequences and series, and limits. Applications and an introduction to calculus will be included as time allows.

CALCULUS **Grade 12**
Course No. 394, 1/2 Year **1.00 Cr**

Prerequisite: Precalculus with a "C" or better

Topics included in this course are analytic geometry, limits, differentiation, integration, and applications using derivatives and definite integrals. The course is presented from a practical standpoint, without rigorous proof on the part of the student. Much of the theory is presented using graphing calculators or in geometric terms and is based on the material covered in Precalculus.

ADVANCED PLACEMENT CALCULUS **Grade 12**
Course No. 395, 3/4 Year **1.5 Cr**

Prerequisite: Precalculus

Advanced Placement Calculus (AP Calculus) is designed to cover the first and second semesters of college calculus. Topics include elementary functions, limits, differentiation, integration, polar coordinates and analytic geometry. Background requirements include a solid knowledge of

mathematics through Precalculus with special emphasis on Algebra I, II, and III. The purpose of the course is to expose students to an intensive course in college calculus and to enable the students to take the national Advanced Placement Test offered in May. Successful completion of the required A.P. Test may allow for one semester of college credit in calculus. Students who enroll in this course are required to take the advanced placement examination.

CALCULUS B/C **Grade 12**
Course No. 396, 1/4 Year **.50 Cr**

Prerequisite: Advanced Placement Calculus

Calculus B/C is designed for the student that wants to deepen their knowledge of Advanced Placement Calculus. Students will learn more aspects of Calculus B/C while sharpening their skills for the A.P. test. The second half of the class will be devoted to projects based on college mathematics programs. Students enrolled in this course are required to take the advanced placement examination.

ADVANCED PLACEMENT STATISTICS **Grades 11, 12**
Course No. 397, 3/4 Year **1.5 Cr**

Prerequisite: Algebra II with a "B" or better

The Advanced Placement Statistics course is about **variation**:

- how to quantify it
- how to control for it
- and how to make

The teaching and learning method of this class is activity-driven and based on inquiry, conjecture, discovery, and the justification of ideas. We tend to collect much of our own data and answer questions such as: "is there really twice as much filling in Double Stuff Oreos compared to regular Oreos?"

There are three major curriculum topics:

- I. Exploratory Data Analysis: Observing patterns and departures from patterns.
- II. Planning a Study: Deciding what and how to measure.
- III. Anticipating Patterns: Producing models using probability theory.

Students who enroll in this course are required to take the advanced placement examination.

NAVAL JUNIOR ROTC

LEADERSHIP, CITIZENSHIP AND COMMUNITY SERVICE

GRADES 9-12

The naval science curriculum includes subjects such as communication, leadership, fitness, naval history, citizenship, astronomy, oceanography, meteorology, naval ships and aircraft, seamanship, radar and sonar electronics, navigation and sea power. Formal classroom training is supplemented by training cruises aboard ships, orientation visits and field trips to various naval facilities to enhance classroom studies. In addition to academics, cadets will learn the value of healthy life-style choices and basic military drill and knowledge.

Students who successfully complete two or more years of the program are entitled to advanced standing upon enlistment in an active or reserve component of the Army, Navy, Air Force, or Marine Corps. They may compete for appointment to the U.S. Naval Academy under the NROTC/NJROTC quotas available and cadets who have completed at least two academic years of NJROTC and are recommended by their SNSI will also be considered by a special NROTC scholarship selection board. The Navy College Program (NCP) provides educational opportunities to NJROTC cadets who enlist in the Navy upon graduation from high school. Through the NCP, sailors can obtain an Associate or Bachelor's degree by earning academic credit for Navy training, on-the-job work experience, and other off-duty educational opportunities such as traditional courses, credit-by-examination and distance learning programs.

Up to 16 college credits are available to high school students through a dual enrollment arrangement between RTG and Associates and Adams State College. See rtg-associates.org for details.

NJROTC I: Introduction to Naval Jr. RTC - Cadet Field Manual **Grades 9-12**
Course No. 051, 1/2 Year **1.00 Cr**

Students learn about goal setting, military rank and structure, knowledge of military protocol, proper wearing of military uniform, health, physical fitness, first aid, introductory orienteering skills; Introduction to Foundations of Government and Introduction to American History.

NJROTC II: History from a Maritime Perspective **Grades 9-12**
Course No. 052, 1/2 Year **1.00 Cr**

Prerequisite: NJROTC I

The class completes foundations of Government and continues American History from a Maritime perspective

from the Peloponnesian War through the current day; also includes nautical sciences, maritime geography, oceanography, meteorology, astronomy, as well as rudimentary physical sciences.

NJROTC III: Military Law and Strategy **Grades 11-12**
Course No. 053, 1/2 Year **1.00 Cr**

Prerequisite: NJROTC I and NJROTC II

Students gain an understanding of how diplomacy, information, military and economic power work together to support US National Security strategy; differences between military and civilian courts and law; intelligence networks and administrative workings of the military.

NJROTC IV: Leadership Laboratory **Grades 11-12**
Course No. 054, 1/2 Year **1.00 Cr**

Prerequisite: NJROTC I, NJROTC II, and NJROTC III

Advanced students run JNJROTC program by conducting real work planning for all JROTC events including drill meets, military inspection, community service events, military ball, day-to-day running of organization. Additionally topics include ethics/moral scenarios training.

Performing Arts - Music

MUSIC

The Music Department offers a wide selection of courses in both performance and classroom areas of instruction. Music studied ranges from the classical tradition to popular to contemporary. Traditional instruments as well as music technology equipment such as keyboards, computers, synthesizers and sequencers are available in the Music Department. Members of the music performance groups also have the opportunity to audition for placements in All-State Music Festival, All-New England Music Festival, and New Hampshire Jazz All-State.

In addition to the large ensembles, Band and Choir, which meet during the school day, the Music Department has several musical groups which meet outside the regular school day. These include Big Band, Jazz Combo, Mixed Instrumental Ensembles, Percussion Ensemble, Color Guard, Treble Choir, Madrigal Singers, and Men's Ensemble. No additional credits are given for participation in these performing groups.

All courses in the Music Department may be taken to satisfy the Fine Arts requirement.

PERFORMANCE COURSES

CLIPPER BAND *Grades 9, 10, 11, 12*
Course No. 773, All Year 1.00 Cr

The Clipper Band is open to all students (previous band experience is strongly recommended). As musical ambassadors for the City of Portsmouth, the Clipper Band will be expected to perform at various community functions during the school year. These performances include home football games in the fall, Portsmouth Holiday Parade in December, and the Memorial Day Parade in late May. The Band performs a variety of music ranging from traditional literature to contemporary and Broadway show medleys. In order to prepare for these events, there will be a week long Band Camp before school begins. Some fund raising activities may be scheduled throughout the year to help support the band activities.

CONCERT CHOIR *Grades 9, 10, 11, 12*
Course No. 775, All Year 1.00 Cr

This large choral ensemble is open to all students regardless of previous vocal experience. Music performed is both sacred and secular in nature and ranges from classics to the Broadway stage and arrangements of popular music—all with an emphasis on choral and vocal tone quality development, diction, and balance and blend of voices. It is mandatory that students participate in concerts which occur in after-school or evening times. Some fundraising activities may be scheduled throughout the year.

BAND/CHOIR *Grades 9, 10, 11, 12*
Course No. 777, All Year 1.00 Cr

Prerequisite: Permission of Instructors

This course is designed for students who would like to participate in both band and choir (see course descriptions 773 and 775).

CLASSROOM COURSES

PIANO KEYBOARD *Grades 9, 10, 11, 12*
Course No. 779S, 1/4 Year .50 Cr

Piano Keyboard skills class will serve as an introductory course to anyone interested in learning how to play the piano. A performance-based class, the students will become familiar with the notes on the keyboard, learn music reading skills and chord symbols, and perform a selected ability-appropriate repertoire. The practice and performance needs of Intermediate and Advanced students will be accommodated.

FUNDAMENTALS OF MUSIC THEORY *Grades 9, 10, 11, 12*
Course No. 771, 1/4 Year .50 Cr

Open to all students regardless of musical background. Basic musical concepts such as rhythms, scales, key signatures, intervals and chords will be covered. The music technology assisted classroom is used for music history research, and provides an introduction to technology-based learning. If you want to learn how to read and write music, this is the class for you.

Performing Arts - Music

ADVANCED MUSIC THEORY *Grades 10, 11, 12*
Course No. 777, 1/4 Year .50 Cr

Prerequisite: Fundamentals of Music Theory or permission of instructor

Students interested in this course must have a background in basic musical concepts (*Band, Choir or Fundamentals class*). Advanced musical concepts such as harmonic analysis, voicing, arranging and composition skills will be covered. The music technology assisted classroom is used extensively for creating and performing instrumental and vocal pieces. If you want to learn how to create music, this is the class for you.

JAZZ IMPROVISATIONAL STUDIES *Grades 10, 11, 12*
Course No. 778, 1/4 Year .50 Cr

Prerequisite: Fundamentals of Music Theory or permission of instructor.

Students interested in this course must play an instrument to participate. The history of Jazz and the variety of styles will be explored through research and performance. Students will learn how to improvise using the "Jamey Aebersold" method. Students will learn about blues and jazz scales, solo construction, and performance techniques. Students will also perform in small group combos.

INTRODUCTION TO MUSIC TECHNOLOGY USING APPLE'S "GARAGEBAND" *Grades 11, 12*
Course No. 679, 1/4 Year .50 Cr

Students are introduced to the various hardware and software components located in the music technology lab. Using Apple's "Garageband" combined with midi-controllers from "M-Audio" and a fully networked keyboard lab, students will learn how to electronically compose, edit, record and mix their own musical creations. While a musical background is not a prerequisite, it is certainly beneficial. Students who successfully complete this course would be eligible for independent study consideration in advanced recording utilizing the various school concerts as source material. Space permitting, grades 9 and 10 may be considered per permission of instructor. Course may be taken to satisfy computer or fine arts requirement. Course also listed in Computer Section.

Physical Education

Physical Education is an integral part of the total education which contributes to the development of the individual through the natural medium of physical activity-human movement. As one of the health sciences, it is a broad learning area which promotes healthful living and positive health attitudes.

Physical Education will provide students with a basic workable knowledge and understanding of the various activities, and create a level of skill that will enable the students to effectively participate in lifetime sports and fitness pursuits. Our basic objective is to see that our students become active participants and knowledgeable spectators.

All classes are coeducational, and offer an opportunity to work cooperatively, develop leadership and sportsmanship while releasing tension in a constructive manner. Up to 4 credits in physical education may be applied toward graduation.

PHYSICAL EDUCATION I **Grade 9**
Course Nos. 781, 1/4 Year **.50 Cr**
782, 1/4 Year **.50 Cr**

Required

Freshmen must sign up for both course #781 (inside activities) and #782 (outside activities). The Freshman seasonal course offerings are team and dual sports and an introduction to Project Adventure utilizing the ropes course.

Students must pass the required grade 9 Physical Education I course before selecting any of the following Physical Education electives.

ADVANCED PHYSICAL EDUCATION **Grades 10, 11, 12**
Course No. 786, 1/4 Year **.50 Cr**

This advanced physical education course is more intensive, with greater skill expectations than P.E. I. Seasonal course offerings will include an advanced level of team and individual sports.

Activities will be taught at the discretion of the instructor.

STRENGTH TRAINING **Grades 10, 11, 12**
Course No. 787, 1/4 Year **.50 Cr**

Prerequisite: One Credit in Physical Education I.

A coeducational course dealing with the methods of developing size, strength, and endurance, through various weight-training procedures. The course has some lecture sessions dealing with theories, philosophies, and body functions. Attention will also be given to cardiovascular fitness through circuit training, agility work, interval training,

as well as learning how to calculate heart rate, and how to strengthen your heart. Full participation in developing your own weight-training/cardiovascular program is expected.

STRENGTH BUILDING FOR ATHLETES **Grades 10, 11, 12**
Course No. 788, 1/4 Year **.50 Cr**

Prerequisite: Successful Completion of Strength Training (#787) with a "B" or better.

This course offers competitive athletes an opportunity to develop strength and endurance for their respective sport, while at school. The students will be expected to already have or create with their coach a strength training program. It will then be the student's responsibility to carry out this program and monitor results with the teacher/coach.

FITNESS AND LIFETIME ACTIVITIES **Grades 10, 11, 12**
Course No. 789, 1/4 Year **.50 Cr**

Prerequisite: One Credit in Physical Education I.

Students will explore a variety of ways to improve their fitness through this course. Activities offered will include a variety of non-traditional outdoor and indoor games and lifetime and recreational sports, as well as cooperative, team building activities. Students will be able to work together with their peers, and improve their skills in physical fitness. A classroom component will cover a number of topics to further the student's knowledge of maintaining a physically active life-style.

This course may include units in, but not limited to, individual and non traditional lifelong activities such as frisbee, tennis, softball, golf, badminton, and bocce. Also included will be a variety of conditioning methods such as walking, jogging, circuits, ladder agility drills and use of the weight room.

Activities will be geared towards all ability levels so that everyone can participate.

PROJECT ADVENTURE **Grades 11, 12**
Course No. 795, 1/4 Year **.50 Cr**

Prerequisite: One Credit in Physical Education I.

This outdoor class will help you discover things about yourself and others that you never knew. The class follows the sequential process of icebreakers, team building and problem solving; trust activities, and over 15 low and high rope-climbing elements! Project Adventure's philosophies and cornerstones such as "Full Value Commitment", "Challenge By Choice", and "Experiential Learning" are key concepts of this class. Students will be taught how to belay each other, learn climbing and safety protocols, and will journal, and set goals daily. Project Adventure helps to

Physical Education

build relationships new and old allows students to interact with individuals outside of their social circles and assists students getting over their everyday fears. This is a great way to start your year or end it.

PROJECT ADVENTURE II **Grades 11, 12**
Course No. 796, 1/4 Year **.50 Cr**

Prerequisite: "B" or better in Project Adventure (#795)

Project Adventure II picks up where Project Adventure left off and is designed for the students who want to learn more about running a high ropes climbing course. This indoor class also follows the sequential process of icebreakers, team building and problem solving; trust activities, and high rope climbing elements including our most exciting element, the "swing shot"! Students will learn how to set up and take down all climbing elements, tie most advanced required knots and rope seats, learn various belaying techniques, and improve their upper body strength through challenging climbing elements. Students will continue to journal and set goals daily, and are expected to challenge themselves physically and mentally on a daily basis. Take advantage of the opportunity to enroll in Project Adventure courses for an entire semester!

SPORTS MEDICINE I **Grade 11, 12**
Course No. 799, 1/4 Year **.50 Cr**

Prerequisite: "B" or better in Biology

This introductory course is designed for anyone considering athletic training, physical therapy, medical or interested in pursuing careers in athletic training and sports medicine. It will review basic anatomy of the human body and begin prevention, recognition, assessment, management, and rehabilitation of lower extremity sports-related injuries. In addition, sports related illnesses and conditions will be covered. Practical skills in taping and wrapping techniques will be practiced and evaluated throughout the quarter. This course offers the opportunity for American Red Cross adult, child and infant CPR and AED training. Written work, projects, oral reports, and observation hours are required.

SPORTS MEDICINE II **Grade 11, 12**
Course No. 800, 1/4 Year **.50 Cr**

Prerequisite: "C" or better in Sports Medicine I

This course will continue studying the applications of sports medicine. It will review the basic anatomy of the human body and lower extremity sports-related injuries and begin prevention, recognition, assessment, management, and rehabilitation of upper extremity sports-related injuries. Practical skills in taping and wrapping techniques will be practiced throughout the quarter. Recertification of American Heart Association adult, child, and infant CPR and AED training will be offered. Written work, projects, oral reports, and observation hours are required.

Science

The Science Department offers students a strong basic core of science through the required courses of Physical Science, Earth Science, Biology and Ecology which prepare them for the NECAP in their junior year. Most students continue on to take many of our vast array of electives.

The Science Department offers three academic levels to students taking Science 9, Science 10 and Chemistry. Their former teachers and their guidance counselor recommend students to each level. Students may also apply for the honors level in these three courses. Selection is based on grades, classroom performance, teacher recommendation and the application requirements. Advanced Placement is offered to seniors in Biology and Physics. These students are expected to take the AP exam in the spring.

The Science Department offers a wide variety of science courses taught by an experienced staff. Each elective explores one of the many specialty areas of science and students are also encouraged to create their own Independent Study course, which allows them to branch off from our electives and dive deeper into a particular area of interest. See page 7 regarding Independent Studies.

Students must first achieve passing grades in Physical Science, Earth Science, Biology, and Ecology in order to be eligible to select any other science courses during junior and/or senior year.

REQUIRED COURSES	GRADE LEVEL/ PREREQUISITE
Physical Science*	9
Earth Science*	9-10
Biology*	9-11/Physical Science
Ecology*	10-11/Physical Science, Earth Science, Biology

The successful completion of all four required courses listed above is a prerequisite for all elective classes.

ELECTIVES:	With Teacher Recommendation
Planetary Astronomy	11-12
Oceanography	11-12
Natural Disasters	11-12
Environmental Issues	11-12
Meteorology	11-12
Botany	11-12/B Average in Biology
Zoology	11-12/B Average in Biology
Anatomy and Physiology	11-12/B Average in Biology
Physics of Predictions	11-12
Applied Chemistry	11-12/Algebra I Recommended
Chemistry**	11-12/Algebra II Recommended
Microbiology	11-12/Chemistry and Algebra II
Physics	11-12/Algebra III or Precalculus
A.P. Biology	11-12/Chemistry and Algebra III
A.P. Physics	11-12/Calculus Concurrently/Physics Recommended

*Four levels available (Standard, College Prep, Advanced College Prep, Honors).

**Three levels available (Standard, College Prep, Honors)

HONORS - This level is designed to offer a very challenging educational environment for students who have shown high academic achievement in this discipline in the past.

Honors science students are expected to perform at a higher level in the following areas: use of hypothetical and deductive reasoning; comprehension and application of science concepts while showing attention to detail. Also, writing skills should be above grade level in order to adequately display an understanding of the scientific method. Successful honors students are self-directed and motivated learners. They are also accepting of academic challenge. Science success is coupled with the ability to apply mathematical concepts to scientific questions.

Placement at this level requires student application and acceptance by the faculty through a selective screening process. Honors and/or A.P. courses are offered in grades 9-12.

In order to adequately prepare for Honors Science during the summer prior to the course students are required to read designated selections and do specific writing assignments. This work is not to be done in collaboration with others. **Summer work must be postmarked by dates announced at the spring meeting. Students who do not complete summer work will receive a zero.**

REQUIRED COURSES

PHYSICAL SCIENCE **Grade 9**
1.00 Cr
Required, 1/2 Year

Grade 9 Science is designed to provide a core of scientific knowledge and skills in introductory physics, and chemistry, and to prepare students for other required sciences and the electives offered by the Science Department. Laboratories involving the use of scientific measuring instruments and mathematical analysis are used to develop higher order thinking skills and problem solving. Computer and internet use to do research are important aspects of this program.

EARTH SCIENCE **Grade 9, 10**
.50 Cr
Required, 1/4 Year

Earth Science is a required course that has been designed to introduce students to concepts that lead to an understanding of the development of the universe and of planet Earth. Examples of some concepts that will be studied in detail are plate tectonics, the rock cycle, and geologic time.

BIOLOGY **Grades 10, 11**
1.00 Cr
Required, 1/2 Year

Prerequisite: Successful Completion of Physical Science

Biology is designed to provide a core of scientific knowledge and skills needed to prepare students for a variety of science electives offered. Computer technology and internet use to do research are important aspects of this program. Laboratory experience and the study of biological concepts help students better understand their positions as members of the world community.

Science

ECOLOGY **Grade 10, 11**
.50 Cr
Required, 1/4 Year

Prerequisite: Successful completion of Physical Science, Earth Science and Biology (may be taken concurrently)

Ecology is designed to introduce students to environmental concepts and issues. An introduction to ecological concepts will include an overview of technological tools used to analyze environmental issues. Local and global problems affecting the environment will be covered including global warming, pollution, deforestation and invasive species. Field work and journal writing will be required.

Students who successfully complete Physical Science, Earth Science, Biology, and Ecology will have met the State's Science requirement for graduation and will have earned three credits in science which is equivalent to three years of science.

GRADE 11 AND 12 ELECTIVE COURSES

Students must first earn three credits in the four required courses in order to be eligible to select any other science offerings during junior and/or senior year. Students may elect to take the following half-credit courses for either a **level 3 or 4**. This does not include Chemistry, Physics, Microbiology, Anatomy or AP Courses. Students opting for a level 4 will be required to complete additional work and a term project. It is recommended that students who seek admittance to competitive colleges or universities select a level 4. Students must decide on the desired class level when they enter courses. Once the student has started the class, the level cannot be changed.

Life Science Electives

Anatomy and Physiology	Environmental Issues
Advanced Placement Biology	Microbiology
Botany	Zoology

Earth Science Electives

Natural Disasters	Oceanography
Environmental Issues	Planetary Astronomy

Life and Earth Science Course Descriptions

ZOOLOGY **Grades 11, 12**
.50 Cr
Course No. 442, 1/4 Year

Prerequisite: Biology

Explore Kingdom Animalia. This course is designed to introduce students to the features unique to each animal phylum. Students will compare and contrast animals based on structure function relationships and the advancements of these animals through the phylogenetic tree. Labs will focus on animal dissections.

ANATOMY AND PHYSIOLOGY **Grades 11, 12**
1.00 Cr
Course No. 444, 1/2 Year

Prerequisite: Biology, Chemistry, 483 (Chemistry, 483, maybe taken concurrently)

Explore the human body. This is a course for students who intend to continue their studies in a medical/biological field, or for those that are curious about the relationship between their body's structure and function. Included in this course will be an in-depth study of the anatomy and physiology of the human body. Through the use of dissection, a comparative study of vertebrates will be seen. The first quarter of this course will cover the following 5 units: Unit 1, Introduction to the Human Body; Unit 2, Tissues; Unit 3, The Integumentary System; Unit 4, The Skeletal System; and Unit 5, The Muscular System. The second quarter of this course will cover the following 5 units: Unit 1, The Circulatory, Respiratory & Immune Systems; Unit 2, The Digestive System & Nutrition; Unit 3, The Urinary & Reproductive Systems; Unit 4, The Nervous System; and Unit 5, The Endocrine System. Also covered in this course is an introduction to biochemistry, biophysics, embryology, pathology, and forensics. Through the use of dissection, a comparative study of vertebrates will be seen. Due to the intensity of the lab component, there is a limit to the number of students that may take this course. It is recommended that students who seek admittance to competitive colleges or universities for biological/medical studies take this course. Students enrolled in A&P are eligible for a dual enrollment opportunity with Southern New Hampshire University earning three (3) college credits upon successful completion of the course. Cost to enroll in this course through SNHU is \$75.00. This represents a substantial savings in college tuition costs.

MICROBIOLOGY **Grades 11, 12**
1.00 Cr
Course No. 446, 1/2 Year

Prerequisite: Chemistry, Algebra II

This course is designed for students who plan to continue their studies in a biological or medical field. This course focuses on the study of microorganisms. Bacteria will be examined in detail using both labs and other activities. Other microorganisms studied will be viruses, fungi and protozoa. Also included in the course work will be the study of various diseases.

BOTANY **Grades 11, 12**
.50 Cr
Course No. 448, 1/4 Year

This course is laboratory oriented. Plant anatomy and physiology are explored through investigations. Students

Science

are required to grow and maintain three species of plant. Their observations of these plants are compiled into a term paper analyzing their growth patterns and responses. Class size is limited.

NATURAL DISASTERS **Grades 11, 12**
Course No. 463, 1/4 Year .50 Cr

This course is designed for students who have an interest in the changing world around us. Events that will be discussed will focus on the impacts that they have on our landscape and on human beings. These will consist of meteorological, climatic, geological and astronomical occurrences. A sample of topics that will be covered are volcanoes, hurricanes, avalanches, and meteor impacts.

ENVIRONMENTAL STUDIES **Grades 11, 12**
Course No. 464, 1/4 Year .50 Cr

Prerequisite: Successful completion of Biology and Ecology

This course is designed to be taught to students who have an understanding of ecological concepts. Issues are discussed that affect our planet both locally and globally. Guest speakers and some field trips are a part of this course. A genuine interest in environmental issues is expected.

PLANETARY ASTRONOMY **Grades 11, 12**
Course No. 452, 1/4 Year .50 Cr

This course is designed for students already demonstrating an aptitude for the physical sciences and the fundamental laws of physics, as well as a high interest in learning about this current and expanding field of science. Topics will include the celestial sphere and celestial observation techniques, history of astronomy, laws of planetary motion, star formation and identification including spectroscopy, solar system overview, modern space travel and current space observation techniques, as well as a look at astrobiology and the search for life in space.

METEOROLOGY **Grades 11, 12**
Course No. 459, 1/4 Year .50 Cr

This course focuses on introducing the student to basic concepts involved in the analysis of weather on a global and local scale. Major topics include heat balance, atmospheric stability, precipitation, winds, pressure, weather analysis, and basic weather forecasting techniques. This course is designed to allow the student to understand the way the atmosphere affects daily life and the world around them.

OCEANS **Grades 11, 12**
Course No. 462, 1/4 Year .50 Cr

This course deals with the physical, biological, and chemical aspects of our oceans. Examples of some of the topics that will be studied are: ocean geology, weather and climate, coastal science, marine life, ocean resources, and ocean pollution, just to name a few. Special emphasis will be placed on our local and regional areas; current research and events will be explored as well as career paths in oceanography.

ADVANCED PLACEMENT BIOLOGY **Grade 12**
Course No. 487, 3/4 Year 1.5 Cr

Prerequisite: Minimum grade of "B" in Biology, Chemistry, and Algebra I and II

This intensive elective is for students who intend to continue their studies in a biology/medical field. This course has been accepted by the CollegeBoard™ and may allow successful students the option of receiving college credit. The themes covered in this fast-moving class include Science as a Process, Evolution, Energy, continuity, Relationship of Structure and Function, Regulation, Interdependence in Nature, Science, Technology and Society. This rigorous course includes spending at least 28% of time performing labs. This course is intended to prepare students to take the required AP exam in May.

Physical Science Electives

Advanced Placement Physics	Physics
Applied Chemistry	Physics of Predictions
Chemistry	

Physical Science Course Descriptions

APPLIED CHEMISTRY **Grades 11, 12**
Course No. 480, 1/2 Year 1.00 Cr

Applied Chemistry is a program for students who plan to either further their education in a vocational/technological program and/or wish to receive a practical background in chemistry. In the first quarter, students will be introduced to important concepts in chemistry through the use of experimentation and inquiry learning. In the second quarter, the class is primarily project based. Selected practical applications in industry, the community, the environment and the home will enable students to develop an appreciation of the role of chemistry in the real modern world.

Science

CHEMISTRY **Grades 11, 12**
Course No. 483, 1/2 Year 1.00 Cr

Prerequisite: Algebra II recommended (can be taken concurrently)

This course is designed primarily to meet the needs of students planning to go to college. It consists of a study of the chemical nature of matter, the solution of various chemical problems, both by mathematics and by laboratory experimentation, and the development of fundamental manipulatory skills and techniques in handling of chemical materials and apparatus.

PHYSICS OF PREDICTIONS **Grades 11, 12**
Course No. 491, 1/4 Year .50 Cr

Using scenarios that involve illusions used by magicians, the difference between the nature of science and pseudo-science, and present day ideas of quantum theory, students will develop an understanding of the science principles of inquiry, the laws of motion, general and special relativity and basic quantum theory.

PHYSICS **Grades 11, 12**
Course No. 494, 1/2 Year 1.00 Cr

Prerequisite: Algebra II

This course is designed for the student who plans to continue his/her education in either an academic or scientific field. Major units include kinematics, dynamics, work/energy principles, momentum, rotational mechanics, and gravitation. By means of appropriate demonstrations, selected laboratory experiments, and the solution of representative mathematical problems, the student develops a knowledge of the application of important physical laws that relate to his/her physical environment.

ADVANCED PLACEMENT PHYSICS **Grade 12**
Course No. 495, 1 Year 2.0 Cr

Prerequisite: Algebra III

This course is designed for the student who desires a more challenging program than the traditional high school physics course. Emphasis will be placed on the transition from

theoretical physics to problem solving. Main topics include mechanics, thermodynamics, light/wave mechanics, electricity and magnetism, and modern physics. This course is intended to help prepare students to take the required A.P. Physics Exam in May.

Social Studies

A minimum of three and one half credits of Social Studies is required for graduation. You must complete the requirements in each of the following areas:

- | | |
|-----------------------------|-------------|
| I. World Geography | .50 credit |
| II. American Studies I | |
| A. American Government | .50 credit |
| B. American Studies | .50 credit |
| III. American Studies II | 1.00 credit |
| IV. Social Studies Elective | .50 credit |
| V. Economics | .50 credit |

HONORS PROGRAM

Students entering grades 10, 11, or 12 may apply to the Honors and Advanced Placement Social Studies programs. These programs are designed for students who have the ability to work beyond grade level and who desire more advanced study in the Social Studies. Candidates for Honors American Studies I (grade 10), Advanced Placement United States History (grade 11), or Advanced Placement European History (grade 12) must obtain an application from Guidance, and submit the required materials to the Guidance Department.

In order to adequately prepare for Honors and A.P. Social Studies during the summer prior to the course, students are required to read designated selections and do specific writing assignments. This work is not to be done in collaboration with others. **Summer work must be submitted by dates announced at the spring meeting. Students who do not submit the summer work by the deadline will earn a "0" on these major assignments.**

I. WORLD GEOGRAPHY **Grade 9 Required .50 Cr**

This course is required for one term. It consists of three units: The Five Themes of Geography, U.S. Geography, and World Geography. In the Five Themes unit, students will learn about Location, Place, Movement, Regions and Interaction. It will include scientific theories and fact. In the U.S. unit, students will learn about their country based on the five themes. There will also be some history and economics. In the World unit, students will learn about the continents and how the five themes are connected. If time permits, some specific countries will be studied.

II. AMERICAN STUDIES I

A. American Government **Grade 10 Required .50 Cr**

All students are required to complete this half credit course. Students will examine the basic principles and ideals of

American government at the local, state, and federal levels. The structure and operation of the government will be studied with an emphasis on the students' rights and responsibilities as citizens. Historic and current examples will be used to enhance student understanding of our government.

B. American Studies **Grade 10 Required .50 Cr**

All students are required to complete this half credit course. Students will trace the history of America from the arrival of the first Europeans to the era of Civil War Reconstruction. Major themes of study include the establishment of the American Colonies, the revolutionary birth of the United States, westward expansion, and the Civil War era.

III. AMERICAN STUDIES II - TWENTIETH CENTURY AMERICAN HISTORY

Prerequisite: American Studies I

One credit in American Studies II is required. Students have several options for fulfilling the American Studies II credit.

1. By choosing *American Studies II Survey* or *Advanced Placement American History* a student can fulfill the entire American Studies II requirement.

2. The second option is for students to select TWO HALF-CREDIT MINI-COURSES over the junior and senior years.

AMERICAN STUDIES II SURVEY - TWENTIETH CENTURY HISTORY **Grade 11 1/2 Year 1.00 Cr**

Prerequisite: American Studies I

This course will trace the history of the United States of America from the age of Imperialism at the end of the 19th Century to the present day. The course is designed for the student who desires a chronological overview of the numerous topics that took place in recent American history. Students will examine issues such as America's involvement in foreign policy during the World Wars and the Cold War. Students will also be asked to look at social and economic issues by focusing on the 1920's, the Great Depression and the Civil Rights Movement.

Social Studies

ADVANCED PLACEMENT UNITED STATES HISTORY Course No. 299, 3/4 Year

**Grade 11
1.5 Cr**

Prerequisite: Completed application by due date, teacher recommendations, completion of summer required materials, take A.P. United States History exam in May upon completion of course, successful completion of American Studies I.

This challenging college level course is designed for academically advanced students who wish to gain greater insight into American History. The emphasis of this course is on detailed analytical examination of the political, cultural, and economic aspects of American History from the period of exploration through the post World War II era. Students enrolled in this course will be expected to complete daily reading assignments in secondary sources, primary sources and other related materials, and to show evidence of daily preparation by volunteering information, convincing questioning, and responding to questions from the instructor. Extensive research and writing will be required in order to prepare for the document based essays on the A.P. exam.

AMERICAN STUDIES II MINI COURSES LEVEL 3 OR 4

American Studies I and American Government are prerequisites for American Studies II mini courses. Students must take two American Studies II mini-courses to fulfill the American Studies II requirement. Students may elect to take the following half-credit courses for either a level 3 or 4. Students opting for a level 4 will be required to complete additional work and a term project. It is recommended that students who seek admittance to competitive colleges or universities select a level 4. Students must decide on the desired class level when they enter courses, you can not change the level once the class is in progress. These courses are for juniors and seniors only.

Level 3 or 4 Mini Courses:

<i>America's Role in the World Wars</i>	<i>Modern America</i>
<i>Another View</i>	<i>The Cold War</i>
<i>From Boom to Bust</i>	<i>The Turbulent Decade: The 60's in America</i>
<i>Happy Days: The 50's in America</i>	

AMERICA'S ROLE IN THE WORLD WARS Course No. 245, 1/4 Year

**Grades 11,12
.50 Cr**

From "Trench Warfare" to the "Blitzkrieg" the major causes, events, personalities and results of the two most cataclysmic events of the 20th century will be explored. These two wars will be examined by comparing and contrasting how the effects of war impacted our policy makers and our people. A review of the changing conditions inside the United States during both wars will be examined as well as the contributions of women, minorities and others. A thorough examination of the results of World War I and how they in part paved the way to the outbreak of World War II will also be considered.

ANOTHER VIEW Course No. 253, 1/4 Year

**Grades 11, 12
.50 Cr**

This course is a history of the American people from the point of view of those who have been exploited politically and economically...the stories of blacks, women, American Indians and poor laborers of all nationalities...told in their own words. It is a history told from the bottom up by "the despised poor", the alienated and the radicals whose lives have created a counter tradition which is not often presented as a coherent version of American History.

FROM BOOM TO BUST (The 20's and 30's in America) Course No. 247, 1/4 Year

**Grades 11,12
.50 Cr**

Flappers, Model T's, Prohibition, the Jazz Age, Al Capone, The Great Depression, the New Deal and FDR. Few eras in American history offer a more colorful and diverse opportunity to examine the significant social, economic, and political events of a time period that saw our country go from the golden opportunities of the twenties to the deep economic troubles of the thirties. From the famous Scopes Monkey Trial to the Lindbergh baby kidnapping; from the solo flight of "Lucky Lindy" to the crash of the stock market, the events of the 20's and 30's offer the student insights into two distinct eras that left an indelible mark on the history of 20th century America.

HAPPY DAYS: THE 50'S IN AMERICA Course No. 249, 1/4 Year

**Grades 11,12
.50 Cr**

This course is an examination of one of the most misinterpreted decades in American history. Students will look at the often seen social aspects of the decade, the onset of Rock and Roll, the television boom, suburbia

Social Studies

and the family. Students will also look at what was really going on: McCarthyism and the Red Scare, the Korean War, and the grass roots Civil Rights Movement. Was this decade really Happy?

MODERN AMERICA:

70's, 80's, 90's AND BEYOND Grades 11, 12
Course No. 243, 1/4 Year .50 Cr

From Watergate to George W. Bush, how have the past thirty years in America impacted our current world? In this course students will examine the recent past and apply their knowledge to their lives and the events in America and the world today. Students will learn how the United States emerged victorious from the Cold War to become the primary world leader. Students will also examine how both liberal and conservative political forces have shaped public policy, how the economy has shifted from an industrial to information base, and how society and culture reflect the themes of this time period.

THE COLD WAR

Grades 11,12
Course No. 257, 1/4 Year .50 Cr

From post World War II through 1989 a relatively silent war occurred: the Cold War. In this class students examine the buildup of nuclear weapons after World War II by both the United States and its allies and the Soviet Union and its allies. The worldwide threat of a nuclear war led to many conflicts between the 'Big 2' that will be examined: the Korean War, the Cuban Missile Crisis, and the Vietnam War. Students will also examine attempts that were made socially and politically to put an end to the nuclear build up. The course will culminate with the fall of communism in Eastern Europe and how that event shaped the current world structure.

THE TURBULENT DECADE:

THE 60'S IN AMERICA Grades 11,12
Course No. 259, 1/4 Year .50 Cr

From peace, love, and granola to Woodstock, Kennedy, the Chicago eight and the Vietnam War. The focus of this course will be the controversial history of the 1960's and how the American social scene affected this history. Students will be expected to understand the history first and then be ready to examine how the American people reacted to events through a variety of avenues: passive inquisitiveness, violence, peaceful protests, assassination, folk music, riots and rallies. Does the legacy survive?

AMERICAN STUDIES II MINI-COURSES LEVEL 3

The following listings are half-credit courses. They may only be taken for a **level 3**. **These courses are for juniors and seniors only.**

Prerequisite: American Studies I

Level 3 American Studies II Mini-Courses:

Current Issues in America You and the Law
Sports History in America

CURRENT ISSUES IN AMERICA Grades 11,12
Course No. 262, 1/4 Year .50 Cr

As the title implies, the focus of this course is on the here and now. Starting with the daily headlines we will follow important evolving events while researching pertinent historical influences on the events. Students should expect daily assignments from periodicals, magazines, video news, and the Internet. Class discussion, debate small group research activities and individual presentations will be expected. The purpose of this course is for students to become involved in the daily affairs of the nation and world so they may become knowledgeable, concerned, and active citizens.

SPORTS HISTORY IN AMERICA Grades 11,12
Course No. 261, 1/4 Year .50 Cr

American History and the connection that sports has to it makes up a vital component of our society and culture. In this class students will examine the impact that the world of sports has had on our ever-changing American History during the 20th and 21st centuries. Historical issues such as economics, gender equality, racism, world events, and sports scandals will be a few of the topics covered. Students will leave this class with a better understanding of American History and the major role that sports plays in it.

YOU AND THE LAW Grades 11,12
Course No. 264, 1/4 Year .50 Cr

What are your rights in the eyes of the law? Have you ever wondered about the laws involved in random drug testing, search and seizure, teen driving laws, Internet access rights, and freedom of speech and expression? In this class students will be expected to look at all points of view on some of this century's most controversial court cases and how these landmark court decisions have a direct effect upon the individual. Critical arguments concerning the conflict between preserving the rights of the individual versus the rights of society will also be examined.

Social Studies

SOCIAL STUDIES ELECTIVE COURSES

The following listings are half-credit courses. In order for students to receive a well-rounded background in the Social Studies all students are required to complete at least one of the following courses. **These courses are for Juniors and Seniors only. THESE COURSES DO NOT FULFILL THE AMERICAN STUDIES II REQUIREMENT**

Social Studies Elective Courses

Asian Studies	European History
Comparative World Religions	Holocaust Studies
Contemporary Global Issues	Psychology
	Sociology
	The Modern Middle East

ASIAN STUDIES Grade 11, 12
Course No. 266, 1/4 Year .50 Cr

India, China, Japan, Korea. The names summon immediate and sometimes confusing reactions: mysterious cultures, formidable foes, and potential allies. This class takes an in-depth historical and current look at the cultural, economic, and political systems of Asia and how developments in Asia directly impact the United States. This course is a must for anyone who wants to be ready for the modern emergence of Asia as a major power in our world.

COMPARATIVE WORLD RELIGIONS Grades 11, 12
Course No. 268, 1/4 Year .50 Cr

This course has been designed to introduce the serious student to the basic concepts and practices of the world's major belief systems. Each religion is examined in an historical context and includes the impact of religion on social, political, and cultural traditions. Living in our current day global society it is imperative that we understand and appreciate our neighbors, their frame of reference, philosophies and religious convictions. This course provides the framework needed to enhance this vision. Students will be afforded an opportunity to gain additional insight into the diversity of the religious experience by presenting individual projects of their choosing.

CONTEMPORARY GLOBAL ISSUES Grades 11, 12
Course No. 270, 1/4 Year .50 Cr

The course explores current issues that shape our world and affect us as members of a global community. Topics

to be examined include Europe in the post-communist era, the effects of nuclear weapons, the role of underdeveloped nations, terrorism, the impact of disease around the world, as well as a study of global cultural and moral concerns. Students will utilize texts, current periodicals, newspapers, with a focus on modern foreign films to gain a deeper understanding of his/her role not only as an American citizen, but as a global citizen.

EUROPEAN STUDIES Grades 11, 12
Course No. 286, 1/4 Year .50 Cr

Students will examine four units of study that will focus on Renaissance, Reigns, Religion and Rivalries. This course will include European art, music, politics and the overall impact of how European history has impacted the world. Modern European topics will include government, warfare and the ever changing European Union. Students who elect this course will focus on European history and have a better understanding of Western Civilization.

HOLOCAUST STUDIES Grades 11, 12
Course No. 163, 1/4 Year .50 Cr

This interdisciplinary 1/2 credit course will be offered jointly through the English and Social Studies departments to juniors and seniors. Juniors or seniors may take this to fulfill .50 credit required social studies elective.

The Social Studies portion of this course will include the history of anti-Semitism, Jewish life in Europe before the Holocaust, the aftermath of WWI, and the Nazi rise to power. Students will analyze the political and social conditions of this period and apply them to current violations of human rights in order to promote dignity and freedom of all people today.

PSYCHOLOGY Grade 11, 12
Course No. 272, 1/4 Year .50 Cr

The focus of this **survey** course is on the various theories and principles of the science of human behavior. Equally as important is the opportunity for students to apply these concepts to their own lives. The emphasis is always on individual and not group or societal behavior. Some of the course content is taken from contemporary sources.

SOCIOLOGY Grades 11, 12
Course No. 273, 1/4 Year .50 Cr

This course is an examination of our society and the institutions we established to fulfill our needs and

Social Studies

expectations. Careful analysis of group values, attitudes and behaviors is required. Students will be introduced to various research designs and asked to apply these to current social problems.

THE MODERN MIDDLE EAST **Grades 11, 12**
Course No. 265, 1/4 Year **.50 Cr**

For thousands of years the Middle East has been marked by an extraordinary history. In recent history the Middle East has also become an area of deep interest and concern for the United States. This course will examine the Modern Middle East through the study of its geographic, cultural, religious, history, and the internal conflicts that are impacting the rest of the world. Specific topics of study may include analysis of the Arab/Israeli conflict, the current war against terrorism, and the cultural shifts in the Middle East.

ADVANCED PLACEMENT
EUROPEAN HISTORY **Grades 11, 12**
Course No. 275, 3/4 Year **1.5 Cr**

Prerequisite: Completed application by due date, teacher recommendations, completion of summer required materials, take AP European History exam in May upon completion of course. Successful completion of American Studies I and II requirements.

The Advanced Placement European History course is designed to challenge academically advanced students and give them an opportunity to earn college credit by taking the AP exam. The course emphasis is on the development of Western Civilization from the Renaissance to the present. The study includes the political and diplomatic, cultural and intellectual, and social and economic history of Europe. The students will be expected to do daily readings in a college text, primary sources, secondary sources and other related materials. Research projects of different types will be required. Students will learn how to write document based essays to prepare for the advanced placement exam.

ECONOMICS **Grades 11, 12**
Required
Course No. 283, 1/4 Year **.50 Cr**

Does money really make the world go 'round? Why did the stock market crash? Is the American Economic Dream still alive? This required economics course examines these

questions and analyzes current economic issues. Five units of study explore basic economic systems, the corporate economy, economic government policy, international economics, and personal finance. Students will compete in an online stock market game and engage in a personal finance budget game.

Student Academic Services

Student Academic Services (SAS) offers assistance to students who require an individualized approach to their academic and/or vocational program. Most students have been referred for formal evaluation and found to have a need for an Individualized Educational Program in academic, social/emotional, or vocational areas. Services are provided based on the student's level of performance and individual needs as determined by his/her Student Evaluation and Placement Team (SEPT). More specific information regarding Student Academic Services may be obtained by contacting the SAS Department at Portsmouth High School (436-7100, extension 2939).

ACADEMIC STUDY CENTERS

Students may work in small groups or one-to-one with a SAS staff member. Emphasis is placed on students developing the necessary organizational and academic skills for success in all disciplines. SAS staff uses Study Center time to implement the accommodations according to student's Individual Educational Plan in all academic areas. In order to enhance standardized test performance, specialized test taking strategies and study-skills coaching are provided for second semester sophomores and first semester juniors. Students in Study Center classes have the opportunity to develop effective study skills while completing course assignments.

Services that can take place in Study Center classes include: previewing content area material; reviewing for quizzes/tests; monitoring assignments which may involve vocabulary, grammar, worksheets, chapter guides and questions; editing written assignments; reading assigned novels/literature with discussion for clarification; outlining chapters; reviewing and expanding upon notes; drilling for reinforcement and mastery; completing (w/assistance) assigned classroom work; using library for resources and research purposes; and supporting other activities as requested by content area teachers.

A weekly contact system with content area teachers has been established so that Study Center teachers are aware of current course requirements and students' academic performance. Parent/teacher contact is also encouraged when appropriate. All contact, written and/or informal, is important for assisting students to achieve success in their classes and supporting the content area teachers.

SUPPORTS FOR LEARNING/DEVELOPMENTAL PROGRAM

Supports for learning is designed for adolescents, ages 14-21, that require an individual approach to their academic and/or vocational program. Each student's program is

individually designed to meet his/her needs by providing education on a continuum ranging from full inclusion to self-contained. The team consists of parents, teachers, paraprofessionals, specialists, area agencies, peer tutors, and the Portsmouth community.

The goals of Supports for Learning are: to provide the student with the least restrictive learning environment; to create opportunities and build skills to reach each student's maximum potential in the following curriculum areas; academics, experiential learning, communication, social skills, and community; to assist in a gradual transition from the school to the community with the involvement of family and outside agencies; to create a positive culture that offers a safe environment, which enhances desire to learn; to develop inclusive relationships among peers, staff and community. The following related services are available to the students as designated in their IEP; occupational therapy, physical therapy, speech and language therapy; adaptive physical education; community involvement; peer tutoring and counseling.

THE OPTIONS PROGRAM

Students who meet the criteria of the referral process may receive a wide range of therapeutic and academic services from the Options Program staff. Students with emotional and behavioral difficulties are provided a positive, supported learning environment within the mainstream school setting. These services allow students to continue in the least restrictive placement.

The Options Program offers multiple services to support classroom teachers working with students who experience difficult or challenging behavior and/or students with unique learning styles.

SPEECH AND LANGUAGE

The Speech/Language Pathologist is available to provide services to students with communication disorders and/or language/learning disabilities. A variety of options are offered, including the following: assistance with understanding and using the language of the curriculum; consultation to staff regarding strategies and modifications to benefit the student with language needs; managing alternative means of communication for students with limited speaking abilities; implementing assistive technology to enable students with physical and cognitive challenges to maximize their oral and written communication abilities; teaching strategies to control disfluent speech (stuttering); treating voice disorders (upon referral by a physician). Services are provided on a 1:1 basis, in a small group, by classroom interventions and/or through consultation as deemed appropriate for each student.

TV Production and Broadcasting

Images and sounds are all around us. By recording, editing and presenting these sights and sounds, students learn how to communicate with an audience, and how media programmers communicate with us. Students of TV Production learn some of the techniques of the next generation of television and media programming. Using small camcorders and computerized (non-linear) editing techniques, students learn professional methods to express a vision of the country and otherworld. The goal is media literacy and effective communication in the contemporary world and in the future.

Basic Electronic News Gathering (ENG) and editing procedures are included. Students receive a certificate of competency upon completion of the two-year program.

Any TV Production/Media course may be taken to satisfy either the Fine Arts or Computer requirement.

INTRODUCTION TO TV PRODUCTION/MEDIA **Grades 9, 10, 11, 12**
Course No. 826, 1/4 Year **.50 Cr**

This is a hands-on course that explores the basics of television production and media by creating short videos while studying topics such as equipment recognition, storyboard writing, and basic videotaping and editing.

TV PRODUCTION/MEDIA I **Grades 10*, 11, 12**
Course No. 827, Year **2.00 Cr**

This is a hands-on, full year course where students participate on individual projects and as part of a production team to produce higher quality videos. Students study light management and exposure control, audio, composition and practical application of techniques. Students will study pre-production, production and post-production techniques. Student assessments also emphasize work habits, safety and professional attitude.

TV PRODUCTION/MEDIA II **Grades 11*, 12**
Course No. 828, Year **2.00 Cr**

Prerequisite: TV Production/Media I

This course is for the student who is serious about this career field and desires a more in-depth study and practice of the topics outlined in TV Production/Media I. Students will be responsible for producing school and community projects. Additional emphasis will focus on career development and post secondary opportunities.

*With Permission from the Instructor.

Visual Arts

All courses in the Visual Arts Department may be taken to satisfy the Fine Arts Education requirement. A grade of "C-" or better is required in prerequisite courses.

The visual arts program is interdisciplinary in nature and integrates culture, history and writing through the art process. Emphasis is placed on critical thinking, problem solving and expression. A positive work ethic and respect for the studio space is expected. Peer and self-assessment are also an important component of each course.

**Students not able to schedule advanced courses, but who have met the prerequisite, may be integrated within beginning sections. Continuing students will reinterpret the same curriculum as the other students, revisit it in new ways and be expected to work more independently. The student, with guidance from the teacher, will develop one individual project. Permission of Instructor required.

FUNDAMENTALS OF ART **Grades 9, 10, 11, 12**
Course No. 701, 1/4 Year **.50 Cr**

The Fundamentals of Art course is a prerequisite for all visual arts courses. This course explores two and three-dimensional art forms. The elements and principles of design are taught through diverse projects and styles of art. Students will use drawing, painting, printmaking and sculpture through a variety of materials to create works of art. All students will demonstrate an understanding of line, color theory, and value in all mediums.

DRAWING **Grades 9, 10, 11, 12**
Course No. 710, 1/4 Year **.50 Cr**

Prerequisite: Fundamentals of Art

Drawing is the basis for all art making. Students will draw from life in a way that involves their observations, imaginations and emotions. Line, value, and perspective are emphasized using a variety of drawing styles through still life, the figure, landscape and portraiture. The foundations of drawing are taught through a variety of mediums. Sketchbook assignments are required for homework.

PAINTING **Grades 9, 10, 11, 12**
Course No. 711, 1/4 Year **.50 Cr**

Prerequisite: Fundamentals of Art

Students experience the expressive act of painting through observation and the study of color. A variety of painting styles are explored through still life, the figure, portraiture, landscape and perspective. The foundations of painting are taught through a variety of mediums. Sketchbook assignments are required for homework.

INTERMEDIATE DRAWING AND PAINTING **Grades 10, 11, 12**
Course No. 712, 1/4 Year **.50 Cr**

Prerequisite: Painting and Drawing

This course incorporates an in-depth study of drawing and painting. New subject matter, mediums and styles

are explored. The students will work on developing a more personal style. Assistance in portfolio preparation is available. Sketchbook assignments are required for homework.

PRINTMAKING **Grades 10, 11, 12**
Course No. 713, 1/4 Year **.50 Cr**

Prerequisite: Fundamentals of Art

The traditional and contemporary use of the various processes are explored. Prints are made through experimentation with color and repetition with a variety of colored inks, papers, plates and blocks. Students explore printmaking techniques such as stamping, etchings, and bookmaking. Mixed media, text, combination printing and collage and are used with composite prints, visual books and alternative formats.

ADVANCED PRINTMAKING **Grades 11, 12**
Course No. 714, 1/4 Year **.50 Cr**

Prerequisite: Printmaking

This course incorporates a more in-depth study of printmaking. Students will explore various printmaking media more in-depth such as linoleum and etching.

**See third paragraph in the introduction section (page 53). Permission of instructor required.

ADVANCED DRAWING AND PAINTING **Grades 11, 12**
Course No. 715, 1/4 Year **.50 Cr**

Prerequisite: Intermediate Drawing and Painting

This rigorous course is designed for experienced students who wish to study two-dimensional art at the highest level. Sophisticated ideas and techniques are intensively explored in a variety of styles through printmaking, drawing, and painting. Large and small-scale works are created. The use of drawing, painting and printmaking mediums and methods are further explored and refined. Students compile and document a portfolio of their work. Sketchbook assignments are required for homework.

HANDBUILT POTTERY **Grades 10, 11, 12**
Course No. 720, 1/4 Year **.50 Cr**

Prerequisite: Fundamentals of Art

The course is designed to explore uses of clay for functional and non-functional artworks. Students will use pinch, coil, slab and extruded methods of construction and create projects using several combined methods. Relief, carving, glazing, underglazing, and engobes, colored slips, and mix media are explored for surface treatments. Students are expected to understand and apply 3-D and ceramic vocabulary and demonstrate their understanding of these terms. Studio maintenance including recycling, kiln loading, glaze mixing and clean-up are the responsibility of the students.

Visual Arts

**ADVANCED
HANDBUILT POTTERY** Grades 11, 12
Course No. 721, 1/4 Year .50 Cr

Prerequisite: Handbuilt Pottery

The course is designed to rigorously explore the uses of clay for functional and non-functional artworks. A thorough understanding of the elements of design and handbuilt pottery is necessary for this course. The course will integrate pinch, slab, coil and extruded methods in a variety of projects. A variety of surface treatments: relief, carving, oxides, wax resist, multi-media are used to enhance more complex forms both functional and non-functional. Students will keep glaze notes, use and apply 3D and ceramic vocabulary during the course. Studio maintenance including recycling, kiln loading, glaze mixing and clean-up are the responsibility of the students.

**See third paragraph in the introduction section (page 53). Permission of instructor required.

WHEELTHROWN POTTERY Grades 10, 11, 12
Course No. 722, 1/4 Year .50 Cr

Prerequisite: Handbuilt Pottery

Students acquire basic skills in wheel-thrown pottery using electric wheels. Integrating handbuilt techniques and wheel-thrown pieces as well as glazing techniques, and a variety of surface treatments will be developed. Students will use glaze notes, principles and elements of design. 3D vocabulary and ceramic vocabulary during the course. Record keeping including processes, glazes, and dimensions of each piece will be the responsibility of the students. Studio maintenance including recycling, kiln loading, glaze mixing and clean-up are the responsibility of the students.

**ADVANCED
WHEELTHROWN POTTERY** Grades 11, 12
Course No. 723, 1/4 Year .50 Cr

Prerequisite: Wheelthrown Pottery

This course is an intensive use of the wheel as well as integrating other methods of clay construction. The students are expected to be self-starters and develop their skills fully as well as exploring the work of contemporary potters. Students will keep glaze notes, use and demonstrate their understanding of 3D and ceramic vocabulary during the course. Studio maintenance including recycling, kiln loading, glaze mixing and clean-up are the responsibility of the students.

**See third paragraph in the introduction section (page 52). Permission of instructor required.

SCULPTURE Grades 10, 11, 12
Course No. 724, 1/4 Year .50 Cr

Prerequisite: Fundamentals of Art

Students create three-dimensional art including masks, figures, mobiles, stables, puppets. A variety of materials will be used including clay, wire, wood, cardboard, paper

mache, and mixed media. Additive and subtract methods will be used. Large and small scale sculptures will be created and the assets and drawbacks of each will be discussed. Students will demonstrate their understanding of 3D vocabulary in a variety of ways including artwork, written, oral presentations and group discussions. An introduction to famous sculptors will be included. Students are responsible for studio maintenance including organizing materials and clean-up each day. Sketch books are graded in this course as in class work and homework.

ADVANCED SCULPTURE Grades 11, 12
Course No. 726, 1/4 Year .50 Cr

Prerequisite: Sculpture

This rigorous course is designed for experienced students who wish to increase their experience with three-dimension design to a high standard of design and craftsmanship. Sophisticated design elements and techniques will be explored. Complex structures that involve patience, persistence and research will be assigned. Students are responsible for studio maintenance including organizing materials and clean-up each day.

**See third paragraph in the introduction section (page 53). Permission of the instructor required.

ALTERNATIVE PHOTOGRAPHY Grades 10, 11, 12
Course No. 730, 1/4 Year .50 Cr
\$40.00 Lab Fee

Prerequisite: Fundamentals of Art and Printmaking

Alternative camera and camera-less photographic processes will be explored as an art form, serving as a foundation for the technical, aesthetic and innovative problem solving skills needed for Photography I and II. Topics covered will include image making using a variety of light sensitive processes; digital negatives, contact printing, cyanotypes, photograms, pinhole photography, hand-coloring, and digital imaging and manipulation using Adobe Photoshop. Students will also study the history of photography.

PHOTOGRAPHY I Grades 10, 11, 12
Course No. 731, 1/4 Year .50 Cr
\$40.00 Lab Fee

Prerequisite: Alternative Photography

Students will learn about various photographers and significant styles, and focus on effective composition in black and white photography. Topics covered will include 35mm camera operation, processing black and white film, custom enlarging and printing, and natural and artificial lighting. Also included will be some exploration of color digital imaging using Adobe Photoshop.

PHOTOGRAPHY II Grades 10, 11, 12
Course No. 732, 1/4 Year .50 Cr
\$40.00 Lab Fee

Prerequisite: Photography I

Students will fine tune skills learned in Photography I in black and white photography but also explore color digital photography and printing as well. Students will create quality mounted prints and a digital portfolio.

Welding

WELDING

Welding is a program that provides students an opportunity to acquire entry-level skills for employment as well as entry into an apprenticeship program. The program offers practical experience enabling each student to identify with the welding industry. The career options in the welding industry are wide and varied. They include such options as follows: welder, metal fabricator, heavy equipment repair, pipe fitter and steel worker. Communication skills, a year of physical science and good mathematical skills will enhance ones career opportunities.

INTRODUCTION TO WELDING Grades 9, 10, 11, 12
Course No. 946, 1/4 Year .50 Cr

An introduction is provided to welding, one of the principle means of fabricating metal products. Industry has found that welding is an efficient, dependable and economical means of joining metal in fabricating operations. Students will demonstrate acquired knowledge in oxy-acetylene welding, flame cutting and arc welding through construction of various joint designs and projects. In addition, students will acquire knowledge of the properties of metals and basic blueprint reading.

WELDING TECHNOLOGY IA Grades 10 11, 12
Course No. 948A, 1/2 Year 1.00 Cr

In this course, the emphasis is placed on shop safety and the development of good work habits such as: punctuality, dependability and responsible behavior. The basics of shielded metal arc, oxy-acetylene welding and flame cutting with blueprint reading, mathematics and operation of metal fabrication machinery are covered extensively during this phase.

WELDING TECHNOLOGY IB Grades 10 11, 12
Course No. 948B, 1/2 Year 1.00 Cr

Prerequisite: Welding Technology IA

In addition to building on the skills learned in Welding IA, in this course there is an emphasis on practical application under simulated industrial conditions. The activities are designed to develop proficient skills in the use of oxy-acetylene and arc including stick, MIG and TIG welding equipment.

WELDING TECHNOLOGY IIA Grades 11, 12
Course No. 949A, 1/2 Year 1.00 Cr

Prerequisite: Welding Technology IA and IB

Students will continue to improve and refine their welding skills while working towards mastery. Focus will be on skill levels commensurate with American Welding Society standards. Goals will include passing basic certification tests. Fundamental fabrication techniques will be explored with the opportunity for students to design and build individual projects. Those students whose skills are of a high enough standard will be asked to participate in SkillsUSA competitions. Some of the classes' abilities will be directed towards community service endeavors.

WELDING TECHNOLOGY IIB Grades 11, 12
Course No. 949B, 1/2 Year 1.00 Cr

Prerequisite: Welding Technology IIA

This is the final course of the two-year state sanctioned Welding Technology program. Students will continue to hone their skills in welding including horizontal and vertical welds. Welding alternative metals will be introduced along with plasma cutting. Greater clarity about roles in the workplace will be part of the entire program. Students completing this program will be prepared to enter an apprenticeship program or to enter post-secondary study.

*Student initiated course changes
will not be allowed after the
beginning of any quarter!*
