

Program of Studies



**Portsmouth High School
2011-2012**

Portsmouth High School

Program of Studies

2011-12

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**

2010-11 PROGRAM OF STUDIES

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:

Paula Wensley, Director of Pupil Services
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. 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

- Demonstrate 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.
- Utilize technology as a tool.
- Investigate the arts, humanities, international languages, and literature and their relevance to everyday life.
- Implement strategies to improve and maintain physical and emotional well-being.
- Demonstrate an ability to communicate effectively.

- Acquire and apply scientific knowledge and methods.
- Use the knowledge and skills of the social sciences to address contemporary issues.
- 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.
- Illustrate pride in work as a means of becoming a successful, contributing member of society.
- Create and maintain a healthy, safe, and positive environment.
- Establish one's own life priorities.

CIVIC

- Describe the importance of the individual's role in the local community.
- 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 the services of the Guidance Department, Portsmouth High School offers to its students the opportunity to become better acquainted with themselves and their roles in today's world. They are aided in identifying, accepting, and using their unique capacities, and are encouraged to develop into mature individuals, capable of problem solving and assuming personal responsibility for their actions.

Through a developmental career planning model, counselors assist the students in their career, educational and social development. Academic strengths and weaknesses are analyzed, and abilities and interests are discussed as the basis for career and educational decision making. Standardized tests are interpreted to students, parents, and teachers. Educational and career informational materials are readily available. Counselors meet with students in classes, small groups, and individually. Personal and interpersonal as well as academic needs are considered of utmost importance.

Considerable emphasis is placed upon post-secondary planning. Early in the high school program, students are encouraged to investigate a variety of specific post-secondary educational opportunities consistent with their

interests and aptitudes. Such investigation will allow all students to set realistic goals as a culmination of their four year plan.

The Guidance Department utilizes a student-planning program, Naviance, with all students grades 9-12. Naviance provides students with a personal plan geared toward college readiness and success. It enables students to explore their interests, strengths, and goals. Parents will also have the ability to log in and view student progress towards their educational and career goals.

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

Inquiries relative to the information in this booklet can be made by contacting the Guidance Office at 436-7100, extension 2936.

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.

2011-12 PROGRAM OF STUDIES

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 their 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 regain eligibility 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 levels and A.P. courses require an application process described under Honors and Advanced Placement courses.

The levels of difficulty are defined as follows:

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

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

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.

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

Students planning to go on to higher education should be aware that class rank may be a factor in college admission. 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.

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-**=.67 points, **F**=0 points.

Advanced College Prep classes will receive a weight of 4. Grades 9, 10, 11 Honors and A.P. classes 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.

An unweighted Grade Point Average (G.P.A.) is also computed.

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.

All science honors/AP students will be required to complete the entire application - no automatic enrollment!

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.

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.

2011-12 PROGRAM OF STUDIES

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 planning with Choices 2011 and Choices/Bridges Explorer, 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.

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 Science, including Biology and Chemistry
- 4 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.

2011-12 PROGRAM OF STUDIES

COLLEGE ENTRANCE EXAMINATIONS

Many colleges require that students take the SAT Reasoning Test or the ACT. Some colleges require that students take SAT Subject Tests as well. SAT Reasoning Tests and SAT Subject Tests are administered seven times a year (three at Portsmouth High School/others at neighboring schools). SAT's are usually taken in May or June of the junior year, and again in October or November of the senior year. SAT Subject Tests, if required, usually are taken by December of the senior year.

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 from 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 spring 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
	<hr/>	
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**

***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	Adv. International Language	Computer Science	Fine Arts	

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 II	International Language III		

***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.

***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	

***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	Adv. International Language	American Studies I		

***JUNIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	Algebra II	Elective	Elective	
2	Economics	Elective	Chemistry	
3	International Language II	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	Elective	
3	International Language III	Social Studies Elective	Elective	
4	English 12	Science 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 Technical Institutes and Colleges

*FRESHMAN

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

*SOPHOMORE

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

*JUNIOR

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

*SENIOR

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 12	Applied Physics		
2	Career/Tech Elective	Career/Tech Elective		
3		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		
2	Geography	Computer Elective	Math	
3	Physical Science		International Language I	
4	Elective	Elective	Career/Tech Elective	Earth Science

***SOPHOMORE**

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

***JUNIOR**

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

***SENIOR**

PERIOD	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1	English 12		Math/Science	
2		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 Architecture Program.

Architecture combines the disciplines of Art and Engineering. While computer design and modeling has permeated the architecture and engineering professions, the ability to convey design ideas through manual skills including sketching, drawing and modeling remain the cornerstone of all design careers.

The Architectural design program combines manual drawing 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 the study of architecture.

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

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

Students will explore the concepts and techniques of architectural design through a variety of sketching, drawing, modelling and computer design activities. Students will develop skills in the design process and the use of architectural design standards and conventions through the completion of a 1 1/2 story residential structure.

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

Prerequisite: Introduction to Architecture

A computer based course that provides 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. Upon completion of the computer modeling projects, students will create design portfolios, slide presentations and 11 x 17 design presentations to illustrate their work.

RESIDENTIAL DESIGN **Grades 9, 10, 11, 12**
Course No. 886, 1/2 Year **1.00 Cr**

Prerequisite: Introduction to Architecture

Students interested in pursuing a career in Architecture, Interior Design, Engineering or Construction Technology will benefit from Residential Design. Students will develop the building program for a single-family residence and use 3D software to proceed from conceptual design and modeling through design and development of plans for their design. A detailed 3D computer model will be used to generate building elevations, sections and presentation drawings.

DESIGN STUDIO

The architectural design studio is a dynamic learning environment where students select a core topic of interest and work semi-independently on related projects and activities. Each topic area consists of a nine-week course. A number of different topic areas will be pursued by individual students within one studio class exposing all students in the studio to the variety and scope of skills and concepts found in architecture.

The goal of the studio environment is to individualize each student's education in architectural design so that their talents, needs and interests are addressed and fostered. The student is the center of their education and the instructor facilitates and directs learning through individual conferences and critiques with the student. Students will utilize a variety of resources to gain knowledge including websites, moodle activities, learning activity packages (LAP's), videos and readings.

DESIGN STUDIO **Grades 10, 11, 12**
Course No. 893, 1/4 Year **.50 Cr**

Prerequisite: 3D Interior Design or Residential Design

Students select one or more of the studio topics listed below at time of course selection. Example: To sign up for Design Studio with Architectural Sketching as your topic area of study the Course Number is 893A1.

Section A1 - Architectural Sketching
Develop skills in architectural sketching and rendering through a variety of activities that include elevation and perspective sketching.

Section A2 - Architectural Drawing
Develop skills in the use of manual drafting equipment to complete scaled technical drawings including floor plans, sections, elevations and pictorial drawings.

Section A3 - Model Making
Learn the basic techniques for building design study and presentation models.

Section A4 - Computer Modeling
If you can imagine it you can build it; from concept to presentation with the advanced skills you will learn in 3D computer modeling and rendering.

Section B1 - Interior Architecture
Learn how to customize your building's interior and turn the ordinary into extraordinary with the use of custom interior architectural details.

Section B2 - Exterior Architecture
Exterior details affect not only the style of a building but it's overall "curb appeal". Learn how to utilize exterior elements and details to create architectural interest and character while achieving the unique look you desire.

Section B3 - Remodeling/Renovation
Develop designs for the remodeling of existing structures to suit the needs of the occupants. Includes reconfiguration of floor plans, additions and renovation of interior and exterior details.

Section B4 - Competition Design
Students will select an architectural design competition sponsored by an independent organization and complete a design for submission to the competition. **This course may be taken for two quarters with the instructor's permission.**

Architectural Design

ADVANCED DESIGN STUDIO

Course No. 894, 1/4 Year

Grades 11, 12

.50 or 1.00 Cr

Prerequisite: Two Design Studio Courses

Students select a topic area of interest and semi-independently research and develop designs relative to their topic. Course projects are based on case study scenarios to serve as a guide to direct students through the design and development process. **Students will select area of study and complete an independent learning contract at the beginning of the course. Advanced studio courses may be taken for two quarters with the instructor's permission.**

DESIGN STUDIO TOPICS

Competition Design
Green/Sustainable Design
Mixed Use Design
Planned Community Design
Multi-Family Residences
Non-Residential Design
Structural Design
Future Living Structures
Portfolio Development
Instructor Approved Topic

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

Course No. 878, 1/2 Year

Grades 10, 11, 12

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

Business

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.

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, 1/4 Year **.50 Cr**

This course will prepare students to understand basic economic concepts of business. An introduction to entrepreneurs and corporations will be studied. Students will review the various types of governmental and financial influences on business in the global economy.

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

Prerequisite: Introduction to Business

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.

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

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. They will journalize transactions using a general journal. Students will also learn to prepare a balance sheet, income statement and statement of owner's equity.

Accounting students will have the opportunity to participate in the **Project Running Start** program and earn three college credits in *Accounting I* with the Community College System of New Hampshire.

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 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.

GRAPHIC DESIGN *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.

INTRODUCTION TO COMPUTER PROGRAMMING *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.

ANIMATION *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.

Construction Technology

Construction Technology enables students to explore several levels of involvement appropriate for a variety of career paths and future academic pursuits.

Through participating in the many courses available in this program, students become prepared for apprenticeship opportunities as well as further education and employment in related fields such as engineering, real estate, property management and restoration.

It is recommended that students supplement their education with courses in geometry, physical science, algebra, and applied communication skills.

This program provides articulation opportunities with post-secondary schools. Students completing the two year program will have completed the 10 hour OSHA safety course and the EPA lead paint awareness training.

INTRODUCTION TO WOODWORKING

Course No. 856, 1/4 Year

Grades 9, 10, 11, 12

.50 Cr

This exploratory woodworking class provides students with the opportunity to build small to medium sized projects. Along with learning safe and proper operation of hand tools, basic power tools and some machine tools, students will engage in designing, planning, and managing time in creating projects. Learning the fundamentals of woodworking and techniques provides students with a set of skills that will last a lifetime as well as prepare them for more advanced classes including advanced woodworking, civil engineering, construction trades.

ADVANCED WOODWORKING

Course No. 859, 1/4 Year

Grades 9, 10, 11, 12

.50 Cr

Prerequisite: Introduction to Woodworking

Students will utilize the knowledge and building skills acquired in Introduction to Woodworking in the design and creation of more specialized and sophisticated projects. Instruction on the safe and proper use of advanced woodworking power and machine tools including the lathe routers, planers, jointers, and other tools, will be provided. Advanced woodworking allows students with the opportunity 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 knowledge.

CIVIL ENGINEERING

Course No. 861, 1/4 Year

Grades 9, 10, 11, 12

.50 Cr

These students will select a type of engineering project to focus on and create their own interpretations and models. Recent students have researched and built their own bridges, tunnels, hydroelectric plants, and even an award winning golf course. This class features independent work and small group projects with focus on energy sustainability, self-sufficient buildings, LEEDS/CHPS, and "green" construction.

CONSTRUCTION TRADES I

Course No. 867, All Year

Grades 10*, 11, 12

2.00 Cr

This course provides an introduction to residential construction and design. Students learn about the variety of materials and methods used to build houses, additions, and so on. All projects are designed in class and build to residential construction standards. Students have the opportunity to learn how buildings are put together and how all trades are allied from masonry to carpentry to electricity and plumbing. All participants learn the safe and proper use of major power tools and machinery. This is an excellent choice for those individuals who want to maximize their knowledge of structures and basic construction.

CONSTRUCTION TRADES II

Course No. 868, All Year

Grades 11*, 12

2.00 Cr

Students take their knowledge from Construction I and produce high quality projects focusing on finish work and more sophisticated planning and design. Continued emphasis is placed on machine and power tool safety and operation. Projects are designed and built throughout the school and for customers in the community. Successful completion of this course provides students with a two-year certificate based on completion of NH State approved curriculum competencies.

***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 **Course No. 847, All Year**

Grades 10*, 11, 12
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 **Course No. 848, All Year**

Grade 11*, 12
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. (Academic 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. (Academic 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. (Academic III)

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

Honors English - See description of Honors English Program on page 25.

ENGLISH 9
Required

Grade 9

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
Required

Grade 10

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
Required

Grade 11

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.

English

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 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

Required — See Below

Grade 12

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.

ACADEMIC I & II COURSES

Creative Writing

Grammar and Writing Skills

Real World English

Science Fiction*

The Hero's Quest

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

Course No. 142, 1/4 Year

Grade 12

.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

Course No. 162, 1/4 Year

Grade 12

.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

Course No. 152, 1/4 Year

Grade 12

.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

Course No. 172, 1/4 Year

Grade 12

.50 Cr

Most fictional heroes go on quests or journeys that follow a pattern that is found in hero myths around the world.

English

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 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.

ACADEMIC III COURSES

Film Studies I	Literature of Music
Holocaust Studies	Public Speaking
Journalism	

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

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.

English

LITERATURE OF MUSIC Course No. 143, 1/4 Year

Grade 12
.50 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 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.

ACADEMIC IV COURSES

British Literature	Research Skills
Creative Writing-Adv.	Senior Seminar/Capstone Project
Film Studies II	Shakespeare
Mythological and Biblical Allusions	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 Course No. 184, 1/4 Year

Grades 10, 11, 12
.50 Cr

Learn how to choose and narrow topics, prepare an outline, utilize research tips, take appropriate notes, and write organized drafts. The relationship of grammar, style, and mechanics to effective papers will also be covered. 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. , 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, a visual project and class presentations 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,

English

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.

MYTHOLOGICAL AND BIBLICAL ALLUSIONS
Course No. 164, 1/4 Year

Grade 12
.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
Course No. 194, 1/4 Year

Grade 12
.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
Course No. 148, 1/4 Year

Grade 12
.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
Course No. 195, 3/4 Year

Grade 12
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 (RUNNING START)
Course No. 197, 1/2 Year

Grade 12
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.

Health

**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.

HEALTH STUDIES I **Grades 10, 11, 12**
Course No. 802, 1/4 Year **.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 **Grades 10, 11, 12**
Course No. 804, 1/4 Year **.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.

Interdisciplinary Studies

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 V **Grades 11, 12**
Course No. 521, 1/2 Year **1.00 Cr**

Prerequisite: Grade of B or better in Spanish IV

This course is designed to meet the needs of serious language students who prefer cultural readings and making connections to other disciplines. Many of the readings will be excerpts from literature, poetry and plays. The student will use previously learned grammatical structures in their written commentaries. Reviews of complex structures will be taught in context. Writing assignments will also include making comparisons between cultures and writing essays that synthesize information from various sources.

ADVANCED PLACEMENT
SPANISH LANGUAGE **Grades 11, 12**
Course No. 525, 3/4 Year **1.50 Cr**

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.

FRENCH I **Grades 9, 10, 11, 12**
Course No. 532, 1/2 Year **1.00 Cr**

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.

ADVANCED FRENCH I **Grades 9, 10, 11, 12**
Course No. 535, 1/2 Year **1.00 Cr**

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 II **Grades 9, 10, 11, 12**
Course No. 538, 1/2 Year **1.00 Cr**

Prerequisite: Grade of C or better in Advanced French I

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 III **Grades 10, 11, 12**
Course No. 541, 1/2 Year **1.00 Cr**

Prerequisite: Grade of C- or better in French II

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 IV **Grades 10, 11, 12**
Course No. 544, 1/2 Year **1.00 Cr**

Prerequisite: Grade of B- or better in French III. 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

FRENCH V **Grades 11, 12**
Course No. 547, 1/2 Year **1.00 Cr**

Prerequisite: Grade of B- or better in French IV

This course is designed to meet the needs of the students who have received a "B" or better in French IV. A reading program is an integral part of this class. French history is also studied. Students are expected to write papers as well as give oral reports on the assigned readings. An intensive review of grammar is continued as needed. Students' grades reflect written work as well as mandatory class participation. A certain level of maturity and life experience is required to fully benefit from this course.

ADVANCED PLACEMENT
FRENCH LANGUAGE **Grades 11, 12**
Course No. 546, 3/4 Year **1.50 Cr**

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**
Course No. 550, 1/2 Year **1.00 Cr**

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**
Course No. 553, 1/2 Year **1.00 Cr**

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**
Course No. 557, 1/2 Yr **1.00 Cr**

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**
Course No. 560, 1/2 Year **1.00 Cr**

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**
Course No. 563, 1/2 Year **1.00 Cr**

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

BEGINNING CHINESE **Grades 9, 10, 11, 12**
Course No. 570, 1/2 Year **1.00 Cr**

This is a class for students with no previous Chinese language background. The course is designed to promote conversational as well as reading skills in the target language. Students will learn the fundamental vocabulary and grammar of Mandarin Chinese. Students will eventually learn how to read and write in basic Chinese characters.

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:

<u>Sequence I</u>	<u>Sequence II</u>
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

Course No. 338 1/4 Year

Grades 10, 11, 12
.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

Course No. 341, 1/2 Year

Grades 10, 11, 12
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

Course No. 344, 1/2 Year

Grades 10, 11, 12
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

Course No. 353, 1/2 Year

Grade 9
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

Course No. 362, 1/2 Year

Grades 10, 11, 12
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

Course No. 367, 1/2 Year

Grades 10, 11, 12
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.

ALGEBRA III

Course No. 377, 1/2 Year

Grades 10, 11, 12
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.

PROBABILITY AND STATISTICS

Course No. 388, 1/4 Year

Grades 11, 12
.50 Cr

Prerequisite: Algebra II

Probability and Statistics is a half credit 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 and hypothesis testing.

Mathematics

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.

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.

Physical Education

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 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
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
Required, 1/4 Year

Grade 10, 11
.50 Cr

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
Course No. 442, 1/4 Year

Grades 11, 12
.50 Cr

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 phylogenic tree. Labs will focus on animal dissections.

ANATOMY AND PHYSIOLOGY I
Course No. 444, 1/4 Year

Grades 11, 12
.50 Cr

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. This course will cover the following five 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. Also introduced in this course are the topics of biochemistry, biophysics, embryology, pathology, and forensics. 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 also take **ANATOMY AND PHYSIOLOGY II**.

ANATOMY AND PHYSIOLOGY II
Course No. 454, 1/4 Year *NEW

Grades 11, 12
.50 Cr

Prerequisite: Anatomy & Physiology I

Continue to explore the human body. This course is also for students who intend to continue their studies in a medical/biological field, or for those that are curious about their body's structure function relationship. This course is more in-depth and continues with studies begun in Anatomy and Physiology I. This class covers those systems that were not covered in Anathom and Physiology I, and refers back to systems covered in anatomy and Physiology I. This course will cover the following five units: Unit 1, The Circulatory, Respiratory and Immune Systems; Unit 2, The Digestive system and Nutrition; Unit 3, The Urinary and 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 select both Anatomy and Physiology I and II.

Students must take Anatomy and Physiology I and II in consecutive quarters.

Science

MICROBIOLOGY

Course No. 446, 1/2 Year

Grades 11, 12

1.00 Cr

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

Course No. 448, 1/4 Year

Grades 11, 12

.50 Cr

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

Course No. 463, 1/4 Year

Grades 11, 12

.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

Course No. 464, 1/4 Year

Grades 11, 12

.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

Course No. 452, 1/4 Year

Grades 11, 12

.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.

OCEANS

Course No. 462, 1/4 Year

Grades 11, 12

.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

Course No. 487, 3/4 Year

Grade 12

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.

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:

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

**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 it's allies and the Soviet Union and it's 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
Sports History in America

You and the Law

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, and video sources to gain a deeper understanding of his/her role not only as an American citizen, but as a global citizen.

EUROPEAN HISTORY **Grades 11, 12**
Course No. 274, 1/2 Year **1.00 Cr**

This course is a general survey of European history from the Renaissance to today. Students will examine major eras of European history including the Reformation, French Revolution, the World Wars, and modern Europe as well as learning about art, government, and warfare. Students who elect this course will have a better understanding of how Western Civilization has impacted the changing face of Europe and the world.

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 ART (2-D)
(PAINTING, DRAWING, PRINTMAKING) **Grades 11, 12**
Course No. 715, 1/4 Year (Sem. 1) **.50 Cr**

Prerequisite: Three classes from the following; Painting, Drawing, Intermediate Drawing and Painting, Printmaking

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.

Visual Arts

HANDBUILT POTTERY
Course No. 720, 1/4 Year

Grades 10, 11, 12
.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.

ADVANCED HANDBUILT POTTERY
Course No. 721, 1/4 Year

Grades 11, 12
.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
Course No. 722, 1/4 Year

Grades 10, 11, 12
.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
Course No. 723, 1/4 Year

Grades 11, 12
.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
Course No. 724, 1/4 Year

Grades 10, 11, 12
.50 Cr

Prerequisite: Fundamentals of Art

Students create three-dimensional art including masks, figures, mobiles, stabiles, 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 (Sem. 1) .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.

Visual Arts

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.

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